National Institute of Technology, Tiruchirappalli: Performa for CV of Dr. Sambandam Anandan, Department of Chemistry, NIT, Trichy

Curriculum Vitae

Brief Profile: 1-2 paragraphs (not exceeding 500 words)

Dr. S. Anandan hails from Chennai, Tamil Nadu, India. For the past 26 years, he has been actively engaged in research and teaching in the area of Solar Energy and nanomaterials. He has developed a new laboratory (**Nanomaterials & Solar Energy Conversion Lab**) in the Department of Chemistry, National Institute of Technology, Trichy, into a full-fledged one to be recognized by national and international agencies for research. Further, he had a collaborative project with the **University of Melbourne, Australia, University of Alicante, Spain, Feng Chia University, Taiwan, Moscow State University, Russia and CNR Naples, funded by DST and CSIR India**. Apart from these, his general contributions towards the welfare of the institute and education are many, which may not be explained in a single word. Under his guidance twenty-three Ph.D. and fifty M.Sc. students completed their degrees. In addition, six Ph.D. and two M.Sc. students are pursuing research under his guidance. His research work to date is largely multi-disciplinary involving Nanomaterials, sonochemistry, photochemistry, photocatalysis, electrocatalysis, Fuel cell catalysts, photosplitting of water molecules, bio-molecule interactions, sensors, super capacitors, OLED applications, organic, inorganic & polymer solar cells.

1. Name **Dr. Sambandam Anandan**
2. Designation: Professor
3. Office Address: Nanomaterials & Solar Energy Conversion Lab,
   Department of Chemistry,
   National Institute of Technology,
   Trichy-620 015, India.
4. Telephone (Direct) (Optional): +91-431-2503639

   Telephone : Extn (Optional): +91-9444052074
   Mobile Optional):
5. Email (Primary): sanand@nitt.edu Email (Secondary): sanand99@yahoo.com

6. Field(s) of Specialization: Nanomaterials, Sonochemistry, Photocatalysis, Dye-sensitized solar cells, Organic solar cells, Fuel cells, Electrochemical & Fluorescence Sensors, Supercapacitors.

7. Employment Profile

Job Title	Employer	From	To
Professor & Head	Department of Chemistry, National Institute of Technology, Trichy 620 015	16th January 2018	20th January 2020
Professor (Rs.10500 AGP)	Department of Chemistry, National Institute of Technology, Trichy 620 015	12th March 2018 Onwards	---
Associate Professor (Rs.9500 AGP)	Department of Chemistry, National Institute of Technology, Trichy 620 015	1st December 2017	11th March 2018
Associate Professor (Rs.9000 AGP)	Department of Chemistry, National Institute of Technology, Trichy 620 015	6th November 2011	30th November 2017
Associate Professor (Rs.8000 AGP)	Department of Chemistry, National Institute of Technology, Trichy 620 015	6th November 2008	5th November 2011
Asst. Professor	Department of Chemistry, National Institute of Technology, Trichy 620 015	14th July 2006	5th November 2008
Pool Officer	Central Electrochemical Research Institute, Chennai Unit, Taramani, Chennai 600 113,	May 2005	July 2006
JST (Japan) Visiting Scientist	National Institute of Advanced Industrial Science and Technology (AIST), Nagoya, Japan	April 2004	Mar 2005
Post-doctoral Fellow	Department of Chemistry, Hong Kong University of Science & Technology, Hong Kong	Sep 2003	Mar 2004
Research Associate	Department of Energy University of Madras, India	Mar 2003	Sep 2003
Post-doctoral Fellow	Department of Chemistry, Chungnam National University, Korea	Mar 2002	Feb 2003
Research Fellow	Department of Energy University of Madras, India	March 1996	Feb 2002

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	University of Madras, India	2002		(Chemistry-Energy Interdisciplinary)
M.Sc.	University of Madras, India	1995	II	Chemistry
B.Sc.	University of Madras, India	1993	I	Chemistry

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Professor & Head	Department of Chemistry, National Institute of Technology, Trichy 620 015	16th January 2018	20th January 2020
B. Tech Faculty Coordinator	Department of Chemistry, National Institute of Technology, Trichy 620 015	2008, 2012, 2016	
M.Sc. Faculty Coordinator	Department of Chemistry, National Institute of Technology, Trichy 620 015	2009, 2015	
Ph.D. Faculty Coordinator	Department of Chemistry, National Institute of Technology, Trichy 620 015	2010 2015	
Convocation Committee	National Institute of Technology, Trichy 620 015	2008, 2009, 2010	
M.Sc. Ph.D. Admission committee	National Institute of Technology, Trichy 620 015	2007, 2009, 2011	

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Board of Studies member	R.M.K. Engineering College, Chennai	2021	2022
Board of Studies member	Sir Thiyagarajar College of Arts & Science, Madurai	2021	2022
Board of Studies member	D. G. Vaishnav College, University of Madras, Chennai.	2007	2009
Board of Studies member	Alagappa University	2014	2016

11.Awards, Associateship etc

YEAR OF THE AWARD	NAME OF THE AWARD	AWARDING ORGANISATION
2005	SERC Fast Track YOUNG SCIENTIST AWARD	Department of Science & Technology (INDIA)
2006	participation in the meeting of NOBEL LAUREATES AND STUDENTS in CHEMISTRY to be held at LINDAU, GERMANY.	Department of Science & Technology (INDIA)
2007	Best Biographical Profile	The 25th Silver Anniversary Edition by Marquis Who's Who in the World.
2008	Best Biographical Profile for the year 2008 among "2000 Outstanding Intellectuals of the 21st Century"	International Biographical Centre, Cambridge, England.
2009	**Hiyoshi Young Leaf Award** - 2009	Hiyoshi Corporation Japan
2010	**Best Teacher Awardee**	National Institute of Technology
2011	**Best Teacher Awardee** for the International Year of Chemistry – 2011	Chemical Research Society of India
2014	**Hiyoshi Environmental Award** - 2014	Hiyoshi Corporation Japan
2016	**Dr. APJ Abdul Kalam Award - 2016** for Outstanding Scientific Excellence	Marina Labs, Chennai
2017	**Best Achievers Awardee-2016-17**	National Institute of Technology, Trichy
2018	**Best Achievers Awardee- 2018 (Publications, Citations)**	National Institute of Technology, Trichy
2019	**Best Performers Awardee- 2019 (Publications, Citations, Sponsored projects)**	National Institute of Technology, Trichy
2020	**Best Performers Awardee- 2020 (Publications, Citations, Sponsored projects)**	National Institute of Technology, Trichy
2020	**ACT Prof P B Punjabi awardee - 2020** (For Outstanding Contribution to Research in Chemical Sciences**) -**	**Association of Chemistry Teachers, Mumbai**
2021	Editorial Board Member for the International Journal **Ultrasonics Sonochemistry Publisher: Elsevier**	**Elsevier**
2021	**Best Performers Awardee- 2021 (Publications, Citations, Sponsored projects)**	National Institute of Technology, Trichy

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2009	Eminent scientist of India for participation in the meeting of **Engineering Challenges of Deployment of New Solar Energy Capacity in India** held at Royal Academy of Engineering, London from Sep 28-29.	Royal Academy of Engineering, London	Sep 2009	Sep 2009
2016	INSA-DFG visiting faculty position	INSA India & DFG Germany	25th May 2016	19th August 2016

13. Details of Academic Work

(i) Curriculum Development

(ii) Courses taught at Postgraduate and Undergraduate levels

M.Sc. (Chemistry)	Quantum Chemistry and Group Theory
M.Sc. (Chemistry)	Thermodynamics, Electrochemistry and Kinetics
M.Sc. (Chemistry)	Statistical Thermodynamics and Surface Chemistry
M.Sc. (Chemistry)	Nano Science and Technology
M.Sc. (Chemistry)	Catalysis
M.Sc. (Chemistry)	Physical Chemistry Practical
B.Tech Chemical Engg.	Physical Chemistry, Organic Chemistry
B.Tech I Year	Chemistry
Ph.D. courses	

(iii) Projects guided at Ph.D. level= **23**

1) Synthesis of Nanophotocatalysts for the Degradation of Environmental Pollutants (2010) [**Candidate's Name: Dr. P. Sathishkumar**]- Degree Awarded
2) Preparation of novel components for dye sensitized solar cells (2011) [**Candidate's Name: Dr. R. Sivakumar**] – Degree Awarded
3) Hybrid nanomaterials for electrochemical applications (2012) [**Candidate's Name: Dr. A. Manivel**] – Degree Awarded
4) Binding of Serum Albumins to Bioactive substances – Dyes and Nanoparticles (2012) [**Candidate's Name: Dr. S. Naveenraj**] – Degree Awarded
5) Design and Synthesis of Organic Polymers-based Solar Cells (2013) [**Candidate's Name: Dr. M. Rubyraj**] – Degree Awarded

6) Synthesis of Novel Organic Molecules for Dye-sensitized Solar Cell Applications (2014) [**Candidate's Name: Dr. S. Ramkumar**] – Degree Awarded
7) Exploration of Dye Molecules for Improving the Efficiency of Dye-sensitized Solar Cells (2016) [**Candidate's Name: Dr. S. Manoharan**] – Degree Awarded
8) Nanostructured Metal Oxides for Electrochemical Applications (2016) [**Candidate's Name: Dr. B. Gnana Sundara Raj**] – Degree Awarded
9) Synthesis of Novel Nano-Semiconductor Photocatalyst for Sonophotocatalytic Wastewater Treatment (2016) [**Candidate's Name: Dr. G. Kumaravel Dinesh**] – Degree Awarded
10) Newly Synthesized Metal free Organic Molecules for Photovoltaic Applications (2017) [**Candidate's Name: Dr. Ms. G. Saritha**] – Degree Awarded
11) Metal Nanoparticles Decorated Nanostructured Carbon Materials for Electrochemical Biosensor Applications (2017) [**Candidate's Name: Dr. V. Vinoth**] – Degree Awarded
12) Preparation of Polymer Electrolytes for Dye-sensitized Solar Cell Applications (2017) [**Candidate's Name: Dr. Ms. N. Pavithra**] – Degree Awarded
13) Synthesis and Characterization of Semiconductor Materials: Diverse Structures with Tailored Properties (2017) [**Candidate's Name: Dr. T. Selvamani**] – Degree Awarded
14) Morphologically Controlled CuO Nanostructures for Photocatalytic Applications (2018) [**Candidate's Name: Dr. M. Purna Chander Rao**] – Degree Awarded
15) Nanosemiconductors for Removal of Environmental Pollutants (2019) [**Candidate's Name: Dr. Mrs. Ujwala O Bhagwat**] – Degree Awarded
16) Nano-architectured materials for Electrochemical Applications (2019) [**Candidate's Name: Dr. S. Arulmani**] – Degree Awarded
17) Sonochemical Synthesis of Nanophotocatalyst for Photocatalytic Degradation of Organic Pollutants (2019) [**Candidate's Name: Dr. K. Kaviarasan**] – Degree Awarded
18) Sensing of biologically relevant ions using fluorogenic Ruthenium (II) polypyridine complexes (2021) [**Candidate's Name: Dr. M. Ramachandran**] – Degree Awarded
19) Synthesis of transition metal sulphide as counter electrode materials for Platinum-free dye-sensitized solar cell applications (2021) [**Candidate's Name: Dr. Ms. S. Vijaya**] – Degree Awarded

20) Development of methods for the synthesis of multi-substituted five-membered heterocycles (2021) [**Candidate's Name: Dr. C. Neelamegam**] – Degree Awarded

21) Carbon Supported Nanomaterials for Energy Storage Applications (2021) [**Candidate's Name: Dr. Ms. M. Krishnaveni**] – Degree Awarded

22) Polymer gel electrolytes for Dye-Sensitized Solar Cells (2022) [**Candidate's Name: Ms. G. Ahalya**] – Synopsis Submitted

23) Synthesis of Conjugated polymer and small organic molecules for solar cells and non-linear optics applications (2022) [**Candidate's Name: Ms. A. A. Ummu Habeeba**] – Synopsis Submitted

(iv) Projects guided at Postgraduate level= **50**

Thesis Title:

1) Construction of LaNi0.5Co0.5O3/g-C3N4 Z-scheme nanocomposite for degradation of Congo red dye via low frequency acoustic radiation (38 kHz) aided photocatalysis

2) Synthesis and characterization of Ce doped $LaNiO_3$ as Platinum free counter electrodes in Dye-Sensitized Solar Cells - (May 2022)

3) Fabrication and performance of CoMn-LDH based asymmetric supercapacitor in a mixed electrolyte of potassium hydroxide and potassium ferricyanide - (May 2022)

4) Sonochemicall synthesized Boron and Gold nanoparticles loaded Graphene Quantum Dots for electrochemical detection of Adenine and Guanine - (May 2021)

5) Harnessing the Sun: A review on the emergence, opportunitites, challenges and fabrication of Perovskite Solar Cells - (May 2021)

6) Synthesis of Amine functionalized Silica Nanoparticles Embedded Graphene Quantum Dots for Electrochemical Detection of Glutathione - (May 2020)

7) Synthesis and Reactions of Stabilized Plumbylenes using an Imino-Phosphine - (May 2020)

8) Sonochemical Decoration of Palladium on Graphene Carpet for Electrochemical Methanol Oxidation - (May 2019)

9) Hydrothermal Synthesis of rGO/BN/$Ni(OH)_2$ Ternary Nanocomposites for Supercapacitor Applications - (May 2019)

10) Synthesis of WO_3-TiO_2 Nano Heterostructure Material for Photocatalytic Degradation of Orange G - (May 2019)

11) Synthesis and Characterization of Copper Doped MnO_2 for Dye-Sensitized Solar Cell - (May 2019)

12) Synthesis, Characterization and Adsorption Properties of $Cu_2V_2O_7$ Nanoparticles - (May 2018)

13) Sonochemically Synthesized Pt-Pd Bimetallic Nanoparticles for Non-Enzymatic Glucose Sensor Applications - (May 2018)

14) Zeolitic Imidazolate Framework (ZIF) Derived Metal Oxide for Electrochemical Application - (May 2018)

15) Palladium-Catalyzed Ortho-Thioarylation of N-Methoxybenzamides - (May 2018)

16) Graphene Quantum Dots Capped Gold Nanoparticles for Electrochemical Biosensor Applications - (May 2017)

17) Heavy Metal Ion Removal from Wastewater using $LaFeO_3$ Nanoparticles - (May 2017)

18) Preparation of Starch-Based Biopolymer Electrolyte for Dye-Sensitized Solar Cell Applications - (May 2017)

19) Nickel Chloride Doped Polyaniline for Supercapacitor Applications - (May 2017)

20) Sensitive Detection of Glutathione using Graphene Quantum Dots encapsulated Gold Nanorods - (May 2016)

21) Sonochemical synthesis and Characterization of Co_2SnO_4 Nanomaterials for Supercapacitor Applications - (May 2016)

22) Ultrasound Assisted Synthesis of Mn_3O_4/SnO_2 Nanocomposite for Electrochemical Supercapacitor Applications - (May 2016)

23) Synthesis of Novel Visible-Light-Driven Nitrogen Doped $KTaO_3$ catalyst for Removal of Pollutants - (May 2016)

24) Electrocatalytic Activity of Palladium-Copper Nanocatalyst towards Methanol Oxidation - (May 2015)

25) Preparation of Stable Oil Milk Emulsion using Ultrasonic Approach - (May 2015)

26) Development of Non-Enzymatic Glucose Sensor Based on Flower Shaped Copper Oxide Nanoparticles - (May 2015)

27) Synthesis, Characterization and Photocatalytic Applications of Copper Ferrite Nanoparticles - (May 2014)

28) Mn_3O_4 Nanoparticles Anchored Graphene Sheets: A High Performance electrode Material for Supercapacitors- (May 2014)

29) Synthesis, Structural and Luminescent Properties of Cadmium Telluride Quantum Dots - (May 2014)

30) Synthesis and Characterization of Copper Oxide Via Antlerite for Photocatalytic Degradation of Methylene Blue - (May 2013)

31) Novel Benzimidazole based Organic Dyes for Dye Sensitized Solar Cells - (May 2013)

32) Effect of Nanoseeds on the Synthesis of Gold Nanorods and their Interaction ability with Luminol - (May 2012)

33) Synthesis of Organic Chromophores for Fabrication of Dye-sensitized Solar Cells - (May 2012)

34) Synthesis of Cyanovinylthiophene Bridged dye for Dye-sensitized Solar Cell Application - (May 2012)

35) Synthesis of n-Channel Perylene Bisimide Derivatives for Photovoltaic Applications- (May 2011)

36) Synthesis and Characterization of Acid Red-88 Doped Polyaniline - (May 2011)

37) Ultrasound-assisted condensation of 2-chlorobenzoic acid with various aromatic amines - (May 2010)

38) Synthesis of substituted Benzimidazole derivatives via Ullmann coupling for OLED applications – (May 2010)

39) Sonochemical synthesis of carbon supported tin nanoparticles for electrochemical applications (March 2010)

40) Synthesis and characterization of Meso-tetraphenylporphyrin derivatives for Sensor applications – (May 2009)

41) Fluorescence quenching studies of CdS nanoparticles – (May 2009)

42) Visible light induced photocatalytic degradation of avid red 88 using modified semiconductors – (May 2008)

43) Photoinduced electron transfer study of Nile red in the presence of Metal-semiconductor nanoparticles – (May 2008)

44) Effect of loaded silver nanoparticles on TiO_2 for photocatalytic degradation of textile dye - (May 2007)

45) Preparation of Hybrid polyaniline electrolytes for dye sensitized solar cells- (May 2007)

46) Benzidine impregnated polyepichlorohydrine with TiO_2 nanofiller as a solid polymer electrolyte for dye sensitized solar cells - (May 2007)

47) Preparation of Hybrid polyorthoanisidine electrolyes for dye sensitized solar cells - (May 2007)

48) Heteropolyacid impregnated polyepichlorohydrine with TiO_2 nanofiller as a solid polymer electrolyte for dye sensitized solar cells - (May 2007)

49) Preparation of Au-TiO_2 nanocatalyst for photodegradation of textile dye - acid red 88 - (May 2007)

50) Preparation of dye sensitized solar cells using multidentate ligands coordinated Ruthenium complex - (May 2007)

(v) Other contribution(s)

- ✓ Co-Chairperson at 3rd Asia Oceania Sonochemical Society Conference (**2018**) organized by SRM University, Chennai
- ✓ Organized "**National Level Students' Symposium Horizon 2016**" on Novelistic Nanotechnology- What chemistry behind it? in National Institute of Technology, Trichy, India, on 16-17 September, 2016.
- ✓
- ✓ Section Editor (Environment pollutant), **Handbook of Ultrasonics and Sonochemistry**, Springer Publisher.
- ✓ Guest Editor, **Energy & Environment Focus** (Spl. issue), American Scientific Publisher.
- ✓ Editorial Board member for the Journal "International Journal of Nanomaterials, Nanotechnology and Nanomedicine " Publisher: Peetechz Journal.
- ✓ Editorial Board member for the Journal of Textiles Publisher: Hindawi Publishing Corp.
- ✓ Editorial Board member for the Journal "Nanotechnology" Publisher: The Scientific World Journal
- ✓ Editorial Board member for the Journal "International Journal of Applied Biology and Pharmaceutical Technology.
- ✓ Organized "**National Level Students' Symposium Horizon 2010**" on **Nanomaterials and its applications** in National Institute of Technology, Trichy, India, on 23rd October, 2010.
- ✓ Organized a "**DST-FAST TRACK PAC MEETING**" in National Institute of Technology,

Trichy, India, during 26-27 July, 2010.

- ✓ Organized an "**International Workshop on Sonochemistry and Photocatalysis for Environmental Remediation**" under the Australia-India Strategic Research Program in School of Chemistry, University of Melbourne, Australia, from 26-28 November 2008.
- ✓ Organized a Short-Term Course on "Ultrasonics and Sonochemistry as an emerging Technology" in National Institute of Technology, Trichy, **India**, from March 25-27, 2008.
- ✓ Organized a **"National Seminar on Sensors & its Applications"** in National Institute of Technology, Trichy, **India**, from December 7-8, 2007.
- ✓ Organized a **"Workshop on Catalysts for Environmental Applications (WCEA-2007)"** in National Institute of Technology, Trichy, **India**, from December 2-3, 2007.
- ✓ Organized an **"International Conference on Nanomaterial & its Applications (ICNA-2007)"** in National Institute of Technology, Trichy, **India**, from February 4-6, 2007.
- ✓ Organized a "**Workshop on Special Topics in Chemistry for Higher Secondary School Teachers**" in National Institute of Technology, Trichy, India, on September 16-17, 2006.

14. Details of Major R&D Projects

S. No.	Grant Agency	Title of the Project	Reference Number	Amounts in lakhs
1	**DST-SERC Fast Track**	Direct Conversion of Solar radiation into electricity through dye-sensitized solar cells	SR/FTP/CS-13/2005 dt 05-05-2005	10.32 Completed
2	**TEQIP -INDIA**	Preparation of ZnO nanomaterials for photocatalytic applications	TEQIP/NW/18/CHE dated 12th Feb 2007	1.5 Completed
3	**India-Australia Strategic Research Fund (AISRF)**	Advanced Oxidation Processes for the Degradation of Organic Pollutants in Aqueous Environment	INT/AUS/P-1/07 dated 19th Sep 2007	45 Completed
4	**CSIR - INDIA**	Synthesis of Gold nanoparticles encapsulated TiMCM-41for photocatalytic degradation of organic pollutants	File No. 01(7858)/07 dated 1st Oct 2007	12 Completed
5	**Ministry of Environment & Forests**	Photocatalytic degradation of organic pollutants from industry wastes using heteropolytungstic acid - encapsulated nano-sized TiO_2 supported nanoporous materials	F.O.No.19/6/2007-RE	20 Completed
6	**DST-Nano-mission Scheme**	Synthesis and Characterization of Nanomaterials for Engineering Applications	D.O. No. SR/ NM/NS-27/2008, dt. 25.2.09	572.32 Co-PI Completed
7	**DST-SERC Major Research Project**	Low band gap Donor-Acceptor conjugated polymers toward organic solar cell applications	SR/S1/PC-49/2009 dt.23.12.09	38 Completed

8	**CSIR - INDIA**	Sonocatalytic degradation of organic pollutants from industrial wastewater using novel nanosized semiconductor catalyst	File No. 02(0021)/11/EMR-II dated 15th Dec 2011	18 Completed
9	**INDIA-Spain Research Fund (DST)**	Preparation of Nanomaterials applied to renewable energy devices and other environmental applications by high intensity ultrasound processing	DST/INT/Spain/P-37/11 dt.16th Dec 2011	35 Completed
10	**Ministry of Environment & Forests**	Synthesis of Novel Nanosized Semiconductor Photocatalyst for Sonophotocatalytic degradation of Organic pollutants from industrial wastewater.	F.No.19-26/ 2009-RE	25 Co-PI Completed
	INDIA-Taiwan Research Fund (DST)	Sonochemical preparation of metal nanoparticles and application of Fuel cell catalysts	GITA/DST/TWN/P-50/ 2013	22.788 Completed
11	**Solar Energy Research Initiative (DST)**	Preparation of Solid Polymer Electrolytes for Fabrication of Dye-sensitized Solar Cells	DST/TM/SERI/2k12/10 9(C) dt. 18th July 2013	44.8 Completed
12	**DST-SERB Major Research Project**	Medium Band Gap Donor-Acceptor Conjugated Polymers towards fabrication of Bulk Heterojunction Solar Cells	EMR/2014/000009	40.03 Completed
13	**INDIA-Russian Research Fund (DST)**	Experimental & Theoretical aspects of sonochemical effects in food emulsions	INT/RUS/RFBR/P-209	20.7 Completed
14	**INDIA-ITALY Research Fund (CSIR-CNR)**	Sonochemical Synthesis of Biobased Composite Materials for Energy Stored Applications	22/CNR/Italy/2016 dt.24th May 2016	6.02 Co-PI Completed
15	**INDIA-ITALY Research Fund (CSIR-CNR)**	Sonochemical Synthesis of Biobased Composite Materials for Energy Stored Applications	22/CNR/Italy/2016 dt.24th May 2016	6.02 Co-PI Completed
16	**DST-WTI Major Research Project**	Removal of Heavy Metal from Wastewater: An Alternative Green Sonochemical Process Optimization and Pathway Studies	DST/TM/WTI/2k16/258 (G) dated 21/02/2017	31.49 Completed
17	**DST-Nano Mission Research Project**	Metal oxides anchored graphene nanosheets for fabrication of energy storage devices	SR/NM/NS-1024/2016	104.51 Completed
18	**Solar Energy Research Initiative (DST)**	Indigenous development of Dye-sensitized Solar Cells modules with different electrolytes	DST/TMD/SERI/S32 (C) dt. 21st March 2018	107.134 Completed
19	**Woman Scientist Scheme A (DST)**	Synthesis of Double Perovskite Materials for Solar Cell Application	WOS-A/CS-78/2017 dt. 28th June 2018	16.15 Mentor Completed
20	**Teachers Associateship for Research Excellence (TARE)**	Photovoltaic evaluation of marine based photosynthetic pigments as co-sensitizer for efficient solar cell performance	TAR/2-18/000866 Mentor for Dr. M. Anand, Madurai Kamaraj University	7.5 lakhs Completed
21	**SPARC**	Ultrasonically synthesized microspheres for biomedical and Food industries	236 With University of Melbourne, Australia	68 lakhs
22	**Teachers Associateship for Research Excellence (TARE)**	Perovskite based detectors for x-and γ-ray detection and ToF-PET imaging	TAR/2021/000043 Mentor for Dr. Karthik Kumar Chinnakutti, Vinayaka Missions Research Foundation, Salem	7.5 lakhs

15. Number of PhDs guided **(21)** & ongoing **(8)**

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Dr. P. Sathishkumar	Synthesis of Nanophotocatalysts for the Degradation of Environmental Pollutants	supervisor	2010
Dr. R. Sivakumar	Preparation of novel components for dye sensitized solar cells	supervisor	2011
Dr. A. Manivel	Hybrid nanomaterials for electrochemical applications	supervisor	2012
Dr. S. Naveenraj	Binding of Serum Albumins to Bioactive substances – Dyes and Nanoparticles	supervisor	2012
Dr. M. Rubyraj	Design and Synthesis of Organic Polymers-based Solar Cells	supervisor	2013
Dr. S. Ramkumar	Synthesis of Novel Organic Molecules for Dye-sensitized Solar Cell Applications	supervisor	2014
Mr. S. Manoharan	Exploration of Dye Molecules for Improving the Efficiency of Dye-sensitized Solar Cells	supervisor	2016
Mr. B. Gnana Sundara Raj	Nanostructured Metal Oxides for Electrochemical Applications	supervisor	2016
Mr. G. Kumaravel Dinesh	Synthesis of Novel Nano-Semiconductor Photocatalyst for Sonophotocatalytic Wastewater Treatment	Co-supervisor	2016
Ms. G. Saritha	Newly Synthesized Metal free Organic Molecules for Photovoltaic Applications	supervisor	2017
Mr. V. Vinoth	Metal Nanoparticles Decorated Nanostructured Carbon Materials for Electrochemical Biosensor Applications	supervisor	2017
Ms. N. Pavithra	Preparation of Polymer Electrolytes for Dye-sensitized Solar Cell Applications	supervisor	2017
Mr. T. Selvamani	Synthesis and Characterization of Semiconductor Materials: Diverse Structures with Tailored Properties	supervisor	2017
Mr. M. Purna Chander Rao	Morphologically Controlled CuO Nanostructures for Photocatalytic Applications	supervisor	2018

Mrs. Ujwala O Bhagwat	Nanosemiconductors for Removal of Environmental Pollutants	supervisor	2019
Mr. S. Arulmani	Nano-architectured materials for Electrochemical Applications	supervisor	2019
Mr. K. Kaviarasan	Sonochemical Synthesis of Nanophotocatalyst for Photocatalytic Degradation of Organic Pollutants	supervisor	2019
Mr. M. Ramachandran	Sensing of biologically relevant ions using fluorogenic Ruthenium (II) polypyridine complexes	supervisor	2021
Ms. S. Vijaya	Synthesis of transition metal sulphide as counter electrode materials for Platinum-free dye-sensitized solar cell applications	supervisor	2021
Mr. C. Neelamegam	Development of methods for the synthesis of multi-substituted five-membered heterocycles	supervisor	2021
Ms. M. Krishnaveni	Carbon Supported Nanomaterials for Energy Storage Applications	supervisor	2021

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
8-10, November 2021	ESS-JSS-AOSS 1st Joint Sonochemistry International Conference (online)	International	Participant	ESS-JSS-AOSS	Online
14-17 October, 2019	Polychar 27 Conference	International	Participant	Naples, Italy	Italy

19-21, September 2019	Australia Oceania Sonochemical Society Conference	International	Participant	Nanjing University, Chennai	China
18-20 October, 2017	ANNIC 2017 Conference	International	Participant	Rome, **Italy**	Italy
14-16, September 2017	Australia Oceania Sonochemical Society Conference	International	Participant	SRM University, Chennai	Chennai
Oct 2015	Electrochemical Technologies in Hydrogen Production and Utilization for Electrical Energy	National	Participant	IIT Delhi	Delhi
Mar 2013	Indo-German Frontiers of Engineering Symposium 2013	International	Participant & Presented lecture	ARC Hyderabad	Hyderabad
Dec 2012	First International Winter School on Industrial Biotechnology	International	Participant & Presented lecture	NRC Cairo	Cairo
Nov 2012	**I**NDO-GERMAN Workshop on Advanced Materials for Future Energy Requirements	International	Participant & Presented lecture	Delhi University	Delhi
March 2012	Solar Fuel 12 Conference	International	Participant & Presented lecture	Nanoge	Mallorca, Spain
Sep 2011	National Symposium on Frontier of Engineering	National	Participant	IIT Hyderabad	Hyderabad
Feb 2011	13th Chemical Research Society of India National Symposium in Chemistry	International	Participant	NISER	Bhubaneswar
Sep 2009	Engineering Challenges of Deployment of New Solar Energy Capacity in India	International	Participant	Royal Academy of Engineering, London	London
April 2009	EPSRC Workshop on "Solar Cells"	International	Participant	IIT Delhi	Delhi
Aug 2008	International Conference on	International	Participant & Presented	University of Sydney,	Sydney, Australia

	Photochemical Conversion and Storage of Solar Energy		lecture	Australia	
July 2008	International Seminar on "Advanced Materials"	International	Participant & Presented lecture	University of Melbourne, Australia	Melbourne, Australia

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
***Indo-Australia Workshop on* Nano and Biomaterials: Synthesis & Applications**	International under SPARC Scheme	21-25 June, 2021	Convener	NITT
***Indo-Australia Workshop on* Nanomaterials for Applications in Agriculture, Energy and Environment**	International under SPARC Scheme	23rd January, 2020	Convener	NITT
A Bilateral Research Opportunities Symposium for scholars with Kaohsiung Medical University, Taiwan	International	20th February, 2019	Convener	NITT
Students Symposium	National	Sep 2016	Faculty Co-ordinator	NITT
Short Term Course	National	Feb 2016	Faculty Co-ordinator	NITT
Golden Jubilee year lectures	National	Dec 2013	Faculty Co-ordinator	NITT
Short Term Course	National	Dec 2013	Faculty Co-ordinator	NITT
Short Term Course	National	March 2013	Faculty Co-ordinator	NITT
Short Term Course	National	March 2013	Faculty Co-ordinator	NITT
Students Symposium	National	October 2010	Faculty Co-ordinator	NITT
DST PAC meeting	National	July 2010	Faculty Co-ordinator	NITT
Short Term Course	National	March	Faculty	NITT

		2008	Co-ordinator	
National Conference	National	Dec 2007	Convener	NITT
International Workshop	International	Dec 2007	Convener	NITT
International Conference	International	Feb 2007	Convener & Secretary	NITT
Training Progamme for students	National	Nov 2006	Convener	NITT
Training Progamme for Teachers	National	Sep 2006	Convener	NITT

18. Invited Talks delivered

Topic	Date	Inviting Organization
Conversion of visible light into electricity using polypyridyl ligands coordinated Ru(II) complexes adsorbed on nanocrystalline TiO2 films	August 30-31, 2002	Changwon National University, Korea
Synthesis of mixed ligands complexes of Ru (II) with 4,4'-dicarboxy-2,2'-bipyridine and substituted pteridinedione for the conversion of light energy into electrical energy	August 2-3, 2002	Gifu University, Japan
Harvesting Solar Energy through Electrochemistry	August 29, 2005	Central Electrochemical Research Institute" at Karaikudi
Dye sensitized solar cells – an overview	October 4, 2005	Anabond Limited" at Chennai
Thermodynamics – an overview	September 16-17, 2006	Department of Chemistry, National Institute of Technology, Trichy
Chemical Kinetics	November 25-29, 2006	Department of Chemistry, National Institute of Technology, Trichy
Nanomaterials for Solar Energy conversion Applications	December 2-3, 2006	Department of Metallurgical & Materials Engineering, National Institute of Technology, Trichy
Recent improvements and arising challenges in dye-sensitized solar cells	February 5-9, 2007	Department of Chemical Engineering, National Institute of Technology, Trichy

Nanomaterials for Energy conversion Applications	February 19-23, 2007	Department of Civil Engineering, National Institute of Technology, Trichy
Nano: Future Technology	July 24, 2007	in Department of Electrical and Electronics Engineering, Saranathan College of Engineering, Trichy
Nano & its Applications	September 7, 2007	Department of Bio-Chemistry, Seethalakshmi Ramasami College, Trichy
Nanomaterials for Solar Energy Conversion Applications	November 20, 2007	Department of Chemistry, Queensland University of Technology, Australia
Nanotechnology & its Applications	December 24, 2007	Department of Chemistry, Chungnam National University, Korea
Nano – The Future	February 23, 2008	Department of Metallurgical & Materials Engineering, National Institute of Technology, Trichy
Excitement of & Opportunities in Nanosciences & Nanotechnology	March 15, 2008	organized by Department of Physics, Annai Mathammal Sheela Engineering College, Namakkal, India
Excitement of & Opportunities in Nanosciences & Nanotechnology	May 29, 2008	Department of Chemistry, University of Melbourne, Australia
Nanomaterials for Solar Energy Conversion Applications	June 5, 2008	Particulate Fluid Processing Centre (PFPC), University of Melbourne, Australia,
Nano-Bio-technology-Excitement & its Opportunities	September 6, 2008	Department of Biotechnology, Vel's College of Science, Chennai
Sonochemistry and Photocatalysis for Environmental Remediation (IWSPER – 2008)	November 26-28, 2008	Department of Chemistry, University of Melbourne, Australia
Excitement of & Opportunities in Nanosciences & Nanotechnology	March 14, 2009	Department of Nanoscience & Technology, Alagappa University, Karaikudi
Excitement of & Opportunities in	March 16, 2009	Department of Mechanical Sciences, ISTE Chapter

Nanosciences & Nanotechnology		Athiyamaan College of Engineering, Hosur
Excitement of & Opportunities in Nanosciences & Nanotechnology	March 21, 2009	Department of Electrical Electronics Engineering, SASTRA University, Thanjavur
Nanomaterials for Solar Energy Conversion Processes	June 18, 2009	Department of Chemistry, Academic Sinica, Taipei, Taiwan
Synthesis of metal-semiconductor nanoparticles for enhanced photocatalytic degradation of azo dyes in aqueous environment".	December 16-17, 2009	Department of Chemical Engineering, Institute of Chemical Technology, Mumbai
Nanotechnology - Excitement & its Opportunities	January 8, 2010	Department of Physics, Yadava Arts & Science College, Madurai
Metal-Semiconductor Nanoparticles for Solar Energy Conversion Applications	January 28-29, 2010	Department of Chemistry, Manonmaniam Sundaranar University, Tirunelveli,
Effects put forth to enhance the efficiency in dye-sensitized nanostructured solar cells – An overview	February 25-27, 2010	jaipur Engineering College, Kukas, Jaipur, India
Metal-Semiconductor Nanoparticles for Solar Energy Conversion Applications	March 1-3, 2010, entitled	Department of Nanoscience and Technology, Alagappa University, Karaikudi, India
Nano-Bio-technology-Excitement & its Opportunities".	April 5-16, 2010	Department of Pharmaceutical Technology, Anna University, Tiruchirappalli
Metal-Semiconductor Nanoparticles for Solar Energy Conversion Applications	April 22-23, 2010	Department of Basic Sciences & Humanities, Amal Jyothi College of Engineering, Kottayam, India
Metal-Semiconductor Nanoparticles for Solar Energy Conversion Applications	June 10, 2010	Department of Environmental Engineering & Science, Feng Chia University, Taichung, Taiwan
Recent improvements and arising challenges in solar	June 25, 2010	in Department of Chemistry, Academic Sinica, Taipei, Taiwan

cells		
Hybrid Polymer Electrolytes with Inorganic Additives for Fabrication of High Efficient Dye-Sensitized Solar Cells	September 17-20, 2010,	National University of Singapore, Singapore
Ultrasonics & Sonochemistry – An Emergent Technology	September 23-24, 2010	Department of Chemistry, Cardomom Planters' Association College, Bodinayakanur, India,
Metal Semiconductor Nanoparticles – Synthesis and Environmental Applications	1st October, 2010	Arunai Engineering College, Tiruvannamalai, India
Ultrasonics & Sonochemistry – An Emergent Technology	8th October, 2010	UGC-Academic Staff College and Department of Chemistry, Bharathidasan University, Trichy
Recent improvements and arising challenges in solar cells ".	October 12, 2010	Department of Physics, Holy Cross College, Trichy
Photocatalytic degradation of environmental pollutants using metal-semiconductor nanoparticles	November 14-16, 2010,	School of Chemistry, University of Melbourne, Australia
Nano-Bio-technology-Excitement & its Opportunities	5th December, 2010	Department of Biotechnology, Karunya University, Coimbatore and funded by DBT, New Delhi
Ultrasound in Nanoparticles Synthesis	January 12-14, 2011	Department of Physics, St. Joseph's College, Trichy
Effects put forth to enhance the efficiency in dye-sensitized nanostructured solar cells	January 28-30, 2011,	Indo-German Nachkontakt Association (IGNA) and Indian Institute of Chemical Technology, Hyderabad
Ultrasonics & Sonochemistry – An Emergent Technology	February 25, 2010,	by Department of Chemistry, AVC College, Mayiladuturai, India
Nanotechnology - Excitement & its Opportunities	April 6, 2011	Club of Government Arts College, Ariyalur
Ultrasound in Nanoparticles Synthesis	May 3, 2011	in ISTE approved STTP programme organized by Karaikal Polytechnic College, Karaikal
Sonochemical Synthesis of	July 29, 2011	Virudhunagar Hindu Nadar's

Nanoparticles		College, Virudhunagar
Synthesis of Metal-Semiconductor Nanoparticles for enhanced photocatalytic degradation of azo dyes in aqueous environment	29-31 August, 2011	Department of Chemical Engineering, National Institute of Technology, Trichy, India
Sonochemistry : Nanoparticles Synthesis	September 5, 2011	Department of Chemistry, D.G. Vaishnav College, Chennai, India
Metal Semiconductor Nanoparticles – Synthesis and Environmental Applications	22-24 September, 2011	Novosibirsk Government, Russia
Sonochemistry: Nanoparticles Synthesis and its Applications	13-15 January, 2012	Department of Chemistry, Govt. Autonomous Holkar College, Indore, India
Dye-Sensitized Solar Cells	February 2, 2012	in International Multidisciplinary Conference on Solar Energy Meenakshi Sundararajan Engineering College, Chennai, India
Effects put forth to enhance the efficiency in dye-sensitized nanostructured solar cells	February 13, 2012,	CECRI, Karaikudi, India
Hybrid Nanomaterials for Sensor applications	March 8, 2012	Department of Bioelectroncis and Biosensors, Alagappa University, Karaikudi India
Metal-Semiconductor Nanoparticles for Solar Energy Conversion Applications	March 23, 2012	Department of Industrial Chemistry, Alagappa University, Karaikudi India
Metal-Semiconductor Nanoparticles for Solar Energy Conversion Applications	June 29, 2012	Institute of Physical Chemistry, University of Alicante, Spain
Hybrid Nanomaterials for Electrochemical Applications	July 10, 2012	Institute of Physical Chemistry, University of Alicante, Spain
Metal-Semiconductor Nanoparticles for Solar Energy Conversion Applications	August 7, 2012	Department of Chemistry, Karunya University, Coimbatore, on August 7
Nano-Bio-technology-Excitement & its Opportunities	August 29, 2012	Department of Bio-Chemistry, Seethalakshmi Ramaswami College, Trichy, India

Synthesis of Nanophotocatalysts for the Degradation of Environmental Pollutants	August 31, 2012	Department of Chemical Engineering, National Institute of Technology, Trichy, India
Nano-Bio-technology-Excitement & its Opportunities	September 21, 2012	Department of Bio-Technology, Alpha Arts and Science College, Chennai, India
Nanomaterials - Excitement & Opportunities	October 11, 2012	Synergy-Chemistry Association of Urumu Dhanalakshmi College, Trichy
Binding of Serum Albumins With Bioactive substances – Nanoparticles To Drugs	December 2, 2012	National Research Council, Cairo
Need of Ultrasound and its Applications	2nd February, 2013	UGC-Academic Staff College and Department of Physics, Pondicherry University, Pondicherry
Effects put forth to enhance the efficiency in dye-sensitized nanostructured solar cells	2nd February, 2013	UGC-Academic Staff College and Department of Physics, Pondicherry University, Pondicherry
Nanobiotechnology - Excitement & Opportunities	March 11, 2013	Chemistry Association of Thiagarajar College, Madura
Sonochemistry and its applications	20th March, 2013	Short term Course in New Avenues in Chemical Sciences Research organized by Department of Chemistry
Need of Ultrasound and its Applications	22nd March, 2013	Department of Chemical Engineering & Chemistry, NIT, Trichy
Sonochemical Synthesis of nanoparticles for Catalytic Applications	July 10-12, 2013	School of Chemistry, University of Melbourne, Australia
Metal-Semiconductor Nanoparticles for Solar Energy Conversion Applications	July 19, 2013	Department of Chemical Engineering, NIT, Trichy
Effects put forth to enhance the efficiency in dye-sensitized nanostructured solar cells	9th August, 2013	Rajalakshmi Institutions
Sonochemical Synthesis of Nanoparticles for Electrocatalytic Applications.	1st October, 2013	Karunya University, Coimbatore
Metal-Semiconductor	13th November, 2013	Department of Civil

Nanoparticles for Solar Energy Conversion Applications		Engineering, NIT, Trichy
Sonochemistry-An Emergent Technology	10th December, 2013	Department of Chemistry, Anna University, Trichy
Metal-Semiconductor Nanoparticles for Solar Energy Conversion Applications	17th December, 2013	Department of Chemistry, Anna University, Trichy
Effects put forth to enhance the efficiency in dye-sensitized nanostructured solar cells	January 14, 2014	Department of Chemical Engineering, Feng Chia University, Taiwan
Metal-Semiconductor Nanoparticles for Solar	January 16, 2014	Department of Environmental Engineering, Feng Chia
Sonochemistry-An Emergent Technology	28th January, 2014	Department of Chemistry, Seethalakshmi Ramaswami College, Trichy
Preparation of Novel Components for Dye-sensitized Solar Cells	28th January, 2014	Department of Chemistry, Seethalakshmi Ramaswami College, Trichy
Sonochemistry – An Emergent Technology	5th February, 2014	UGC-Academic Staff College and Department of Chemistry, Bharathidasan University, Trichy
Effects put forth to enhance the efficiency in dye-sensitized nanostructured solar cells	5th February, 2014	UGC-Academic Staff College and Department of Chemistry, Bharathidasan University, Trichy
Effects put forth to enhance the efficiency in dye-sensitized nanostructured solar cells".	7th February 2014	Department of Chemistry, National Engineering College, Kovilpatti
Sonochemistry – An Emergent Technology	4th March 2014	Department of Chemistry, Saranathan Engineering College, Trichy
Nanostructured solar cells	7th March 2014,	Department of Electrical Engineering, Vivekanandha College of Engineering for Women, Tiruchengode
Hybrid Nanomaterials for Energy Storage Applications	on 7th March 2014	Department of Production Engineering, National Institute of Technology, Trichy
Conjugated polymer based on Oligobenzo(c)thiophene and its derivatives as	20-21 March 2014,	Department of Electrical Engineering, Indian Institute of Technology, Kanpur

potential donor for Bulk Heterojunction Solar Cells		
Nanostructured Solar cells-An overview	23rd July 2014	Department of Chemistry, Bishop Heber College, Trichy
Nanostructured Solar cells-An overview	24th July 2014	Department of Chemistry, Madurai Kamaraj University, Madurai
Nanosized Semiconductor Particles and their Applications	September 16, 2014	Institute of Physical Chemistry, University of Alicante, Spain
Nanobiotechnology - Excitement & Opportunities	25th November 2014	Department of Chemical Engineering, Coimbatore Institute of Technology, Coimbatore
Nanostructured Solar cells-An overview	16th December 2014	The Institution of Engineers (INDIA), Trichy
Sonochemistry – An Emergent Technology	28th January, 2015	UGC-Academic Staff College and Department of Chemistry, Bharathidasan University, Trichy
Nanostructured Solar cells-An overview	28th January, 2015	UGC-Academic Staff College and Department of Chemistry, Bharathidasan University, Trichy
Nanomaterials - Excitement & Opportunities	5th February 2015	Department of Chemistry, Cauvery College for Women, Trichy
Nanobiotechnology - Excitement & Opportunities	3rd March, 2015	UGC-Academic Staff College and Department of Environmental Biotechnology, Bharathidasan University, Trichy
Nanostructured Solar cells-Past & Present	2nd April, 2015	Kalasalingam University, Krishnankoil
Sonochemically Synthesized Nanosized Semiconductor Particles for Energy & Environmental Applications	June 2, 2015	Department of Chemistry & Department of Materials Engineering, University of Concepcion, Chile
Ultrasound Assisted Synthesis of Metal/Metal Oxide Nanoparticles-Stabilized Reduced Graphene Oxide	July 25-28, 2015	University of Nottingham, Malaysia campus, Kuala Lumpur

Sonochemically Synthesized Nanosized Semiconductor Particles for Energy & Environmental Application	September 16, 2015	Department of Environmental Engineering, Moscow State University of Technology & Management, Russia
Sonochemically Synthesized Nanosized Semiconductor Particles for Energy & Environmental Applications	October 1, 2015	Department of Chemistry, Mar Ivanios College, Trivandrum
Sonochemically Synthesized Nanosized Semiconductor Particles for Energy & Environmental Applications	February 4, 2016	Department of Chemistry, Annai Violet College, Chennai
Nanomaterials - Excitement & Opportunities	19th February 2016	Department of Chemistry, Nehru Memorial College, Puthanampatti, Trichy
Sonochemically Synthesized Nanosized Semiconductor Particles for Energy & Environmental Applications	February 25-26, 2016,	Department of Chemistry, Bishop Heber College, Trichy, India
Nanostructured Solar Cells - Past & Present	18th March 2016	Department of Physics, Bharathidasan University, Trichy, India
Metal oxide Nanoparticles Anchored Graphene Nanosheets for Energy Storage Applications	March 28-29, 2016	Department of Chemistry, National Institute of Technology, Trichy and SAEST Karaikudi
Nanostructured Solar Cells - Past & Present	April 27, 2016	Department of Environmental Engineering, Feng Chia University, Taiwan
Sonochemically Synthesized Nanosized Semiconductor Particles for Energy & Environmental Applications	June 27, 2016	Center for Energy & Environmental Chemistry, Friedrich-Schiller-Universitat Jena
Hybrid Polymer Nanocomposites for Energy & Environmental Applications	July 20, 2016,	Institute for Polymers, Composites and Biomaterials (IPCB), National Research Council of Italy (CNR), Portici (NAPLES) - Italy
Conjugated Polymer Based on Oligobenzo[c]thiophene and its Derivatives as Potential Donor for Bulk Heterojunction Solar Cells	July 21, 2016	Department of Chemistry, University of Salerno, Italy

Nanosized Semiconductor Particles for Environmental Applications	September 3, 2016	Department of Civil Engineering, National Institute of Technology, Trichy,india
Current Perspective of Nanostructured Solar Cells	January 24, 2017	Department of Physics, SRM University, Chennai
Nanostructured Solar Cells - Past & Present	February 27, 2017	Centre for Nanoresearch, Vellore Institute of Technology, Vellore
Nanosized Semiconductor Materials: Diverse Structures with Tailored Properties	February 27, 2017	Centre for Nanoresearch, Vellore Institute of Technology, Vellore
Advances in Nanomaterial & its Applications	February 27, 2017	Department of Chemistry, Thiruvalluvar University, Vellore
Advanced Nanomaterials for Biosensor Applications	March 13, 2017	Department of Bioelectronics & Biosensors, Alagappa University, Karaikudi
A Quick History of Chemistry & its Uses	March 25, 2017	Department of Chemistry, Velammal College of Engineering & Technology, Madurai
Nanostructured Solar Cells - Past & Present	March 27, 2017	Department of Physics, Alagappa University, Karaikudi
Nanostructured Solar Cells - Past & Present	April 14, 2017	National workshop on "Recent Advancements in Nanotechnology" organized by Department of Chemistry, NIT, Pondicherry
Nanosized Semiconductor Materials: Diverse Structures with Tailored Properties	September 8, 2017	Department of Chemistry, Indian Institute of Technology, Roorkee
Transition metal chloride doped polyaniline synthesized via. ultrasonic irradiation for supercapacitor application	September 14-16, 2017	Asia-Oceania Sonochemical Society, organized by SRM University, Chennai
Nanostructured Solar Cells - Past & Present	September 3, 2017	Department of Chemistry, Cauvery College for Women, Trichy
Nanobiotechnology - Excitement & Opportunities	30th October - 12th November 2017	Advanced Material Science & Engineering (Nano-Bio 2017) organized by Department of Chemical Engineering, Coimbatore Institute of Technology, Coimbatore

Nanosized Semiconductor Materials: Diverse Structures with Tailored Properties	30th October - 12th November 2017	Advanced Material Science & Engineering (Nano-Bio 2017) organized by Department of Chemical Engineering, Coimbatore Institute of Technology, Coimbatore
Nanosized Semiconductor Materials: Diverse Structures with Tailored Properties	December 20, 2017	Department of Chemical Engineering, National Institute of Technology, Trichy under GIAN programme
Nanosized Materials: Diverse Structures with Tailored Properties for Environmental Applications	January 3, 2018	Research Center for Environmental Medicine, Kaohsiung Medical University, Taiwan
Nanosized Semiconductor Materials: Diverse Structures with Tailored Properties	February 21, 2018	TEQIP-III sponsored workshop on "Recent Advances in Materials for Photovoltaic Cells and Energy Storage devices" organized by Department of Chemistry, Thiagarajar College of Engineering, Madurai
Nanosized Semiconductor Materials: Diverse Structures with Tailored Properties	March 13, 2018	Refresher Course in Chemistry organized by UGC-Academic Staff College and Department of Chemistry, Bharathidasan University, Trichy
Nanostructured Solar Cells - Past & Present	March 13, 2018	Refresher Course in Chemistry organized by UGC-Academic Staff College and Department of Chemistry, Bharathidasan University, Trichy
Nanosized Semiconductor Materials: Diverse Structures with Tailored Properties	March 23, 2018	Department of Industrial Chemistry, Alagappa University, Karaikudi
Beat Plastic Pollution	June 5, 2018	The Institution of Engineers (INDIA), Trichy local center towards Environmental Pollution Day
Sonochemical Synthesis of Nanoparticles for Various Applications	June 20, 2018	Department of Medicinal & Applied Chemistry, Kaohsiung Medical University - Taiwan
Nanosized Semiconductor Materials: Diverse Structures with Tailored Properties	October 10, 2018	Department of Chemistry, Sadakathullah Appa College, Tirunelveli

Synthesis of hollow Co_3O_4 nanostructures for supercapacitor electrodes through a Co-MOFs Templated Transformation Route	October 18-20, 2018	3rd National Conference of Materials for Energy Conversion and Storage (MECS 2018), organized by IIT BHU, Varanasi, India
Nanosized Semiconductor Materials: Diverse Structures with Tailored Properties	December 11, 2018	International Seminar Sustainable Environment organized by Department of Chemistry, Crescent Institute of Science & Technology, Chennai
Nanosized Semiconductor Materials: Diverse Structures with Tailored Properties	February 04-06, 2019	India-UK Second International Conference on Energy, Environment and Healthcare Applications (ANEH-2019) organized by Bishop Heber College, India
Ultrasound-assisted Synthesis of Unzipped Multiwalled Carbon Nanotubes/Titanium dioxide Nanocomposite as a Promising Next-generation Energy Storage Material	September 19-21, 2019	Asia-Oceania Sonochemical Society, organized by Nanjing University, China
Sustainable nanohybrid Materials for Energy Storage Applications	October 14-17, 2019	International Forum Polychar 27, organized by CNR Naples, Italy
Nanomaterials and its Environmental Applications	May 13-19, 2020	E-Summer School on Advanced Functional Materials for Energy Harvesting, Storage and Biomedical Applications, organized by Bishop Moore College, Kerala
Nanomaterials and its Environmental Applications	August 20, 2020	One day International webinar on Advances in chemical and material sciences, IACMS - 2020, organized by Annamalai University, Chidambaram
Nanomaterials and its Environmental Applications	August 27, 2020	Webinar on Frontiers in Nanotechnology, organized by SRM Institute of Science & Technology, Ramapuram Campus, Chennai

Chemistry towards Nanotechnology and its Applications	October 12, 2020	UGC-HRDC Refresher course at National Centre for Nanoscience and Nanotechnology, organized by University of Madras, Chennai
Chemistry towards Nanotechnology and its Applications	November 25, 2020	UGC-HRDC Refresher course at School of Physics, organized by Bharathidasan University, Trichy
Nanosized Semiconductor Materials: Diverse Structures with Tailored Properties	November 26, 2020	UGC-HRDC Refresher course at School of Physics, organized by Bharathidasan University, Trichy
Chemistry towards Nanotechnology and its Applications	December 28, 2020	Webinar on Materials for Energy Devices, organized by Department of Energy, University of Madras, Chennai
Chemistry towards Nanotechnology and its Applications	February 3, 2021	FDP on Recent Trends on Smart Nanomaterials & its Diversified Applications, organized by Academic Staff College in association with Centre for Nanotechnology Research, VIT, Vellore
How did Chemistry Become a Science?	February 6, 2021	UGC-HRDC Refresher course at School of Organic Chemistry, organized by University of Madras, Chennai
Chemistry towards Nanotechnology and its Applications	February 17, 2021	FDP on Recent Trends in Nanomaterials & its Applications, organized by Department of Chemical Engineering, CIT, Coimbatore
Chemistry towards Nanotechnology and its Applications	March 11, 2021	CUK-PMMMNMTT - Refresher course on Environmental Studies organized by Ministry of Education and Department of Environmental Science, Central University of Kerala, India

Chemistry towards Nanotechnology and its Applications	July 19-23, 2021	ATAL FDP - Refresher course on Strategies & Outcomes to enhance sustainable green environment organized by Anna University, Trichy
Ultrasound-assisted Synthesis of Unzipped Multiwalled Carbon Nanotubes/Metal oxide Nanocomposites as a promising Next-generation Energy Storage Material	October 7, 2021	Indo-South Korea International e-conference on Nanoscience and Nanotechnology for Energy, Environment and Biomedical Applications organized by Vinayaka Missions Kirupananda Variyar Arts & Science College, Salem
Ultrasound-assisted Synthesis of CNT/Metal oxide Nanocomposites as a promising Next-generation Energy Storage Material	October 8, 2021	CSIR sponsored Seminar - State of the Art and Future Perspective of Hybrid Supercapacitor for Greener-Environment organized by Nehru Institute of Engineering & Technology, Coimbatore
How did Chemistry Become a Science?	December 8, 2021	UGC-HRDC Refresher course at Material Science: Recombinant Memetics, organized by University of Calicut, Cochin
Nanocarbon (Graphene, etc) as a promision Energy Storage Material	December 8, 2021	UGC-HRDC Refresher course at Material Science: Recombinant Memetics, organized by University of Calicut, Cochin
Nanocarbon (Graphene, etc) as a promision Energy Storage Material	December 17, 2021	Indian Science Congress Association sponsored Conference - **3rd International Conference on Sustainable Environment Energy and Construction** organized by Hindustan Institute of Technology & Science, Chennai
How did Chemistry Become a Science?	January 12, 2022	R.M.K. Engineering College, Thiruvalluvar

The Importance of Chemistry for Engineering Students	January 18, 2022	R.M.K. Engineering College, Thiruvalluvar
How did Chemistry Become a Science?	January 28, 2022	UGC-HRDC Refresher course in Chemistry: Recent Trends in Analytical Chemistry, organized by University of Madras, Chennai
Fabrication of Dye-Sensitized Solar Cells using 2D Transition Metal Dichalcogenides as Counter Electrodes	February 11, 2022	International Conference on Advanced Materials organized by St. Joseph's College, Tiruchirappalli
Chemistry for Engineers	February 12, 2022	Lecture towards B.TECH first year students, organized by Department of Science & Humanities, NGP Institute of Technology, Coimbatore
Fabrication of Dye-Sensitized Solar Cells using 2D Transition Metal Dichalcogenides as Counter Electrodes	March 17, 2022	Indo-Japan Workshop on Advancement in concentrated photovoltaic system and its thermal management organized by Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli
Insights into Two Dimensional Nanomaterials for Dye-sensitized solar cells	April 2, 2022	International Webinar on Frontiers in Organic Electronics organized by Department of Chemistry, National Institute of Technology, Rourkela, India
Insights into Two Dimensional Nanomaterials for Dye-sensitized solar cells	July 1, 2022	DST-SERB Karyashala on Advanced Materials for Energy Conversion and Storage, organized by CECRI, Karaikudi
Polymer Electrolytes for Dye-sensitized solar cells	July 1, 2022	DST-SERB Karyashala on Advanced Materials for Energy Conversion and Storage, organized by CECRI, Karaikudi
How did Chemistry Become a Science?	July 6, 2022	UGC-HRDC Refresher course in Material Science (Interdisciplinary), organized by Bharathidasan University, Trichy

Insights into Two Dimensional Nanomaterials for Dye-sensitized solar cells	July 6, 2022	UGC-HRDC Refresher course in Material Science (Interdisciplinary), organized by Bharathidasan University, Trichy
How did Chemistry Become a Science?	July 25, 2022	FDP on Emerging Trends in Applied Chemistry, organized by Easwari Engineering College, Chennai

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Member	Korean Chemical Society, South Korea	
Life member	Society for Advancement of Electrochemical Science and Technology (SAEST),	
Life member	Catalysis Society of India.	
Life member	Indian Science congress Association.	
Life member	Chemical Research Society of India	
Fellow	Tamil Nadu Academy of Science, India	
Life member	Indian Association of Solid State Chemists & Allied Scientists.	
Editorial Board member	Journal "The Open Textile Journal" (Bentham publisher, UK)	
International Organizing Committee member	International Workshop on Sonochemistry and Photocatalysis for Environmental Remediation (IWSPER-2008) held at University of Melbourne during 26-28, November 2008.	
Editorial Board member	Journal "International Journal of Applied Biology and Pharmaceutical Technology.	
Editorial Board member	Journal "Nanotechnology" Publisher: The Scientific World Journal.	

Editorial Board member	Journal "Journal of Textiles" Publisher: Hindawi Publishing Corp.	
Editorial Board member	Journal "International Journal of Nanomaterials, Nanotechnology and Nanomedicine" Publisher: Peetechz Journal.	
Editorial Board member	Journal "Heliyon" Publisher: Elsevier	
Member	American Chemical Society, USA	
Editorial Board Member	Journal Ultrasonics Sonochemistry	

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Australia	29th May 2022-4th June 2022	Visiting Professor
Australia	23rd December 2019- 3rd January 2020	Visiting Professor
Italy	14th October 2019- 18th October 2019	Visiting Professor
Australia	8th July 2019- 19th July 2019	Visiting Professor
Taiwan	17th June 2019- 29th June 2019	Visiting Professor
Taiwan	25th December 2017- 6th January 2018	Visiting Professor
Taiwan	19th June 2017- 1st July 2017	Visiting Professor
Australia	5th January 2017- 14th January 2017	Visiting Professor
Taiwan	24th December 2016- 4th January 2017	Visiting Professor
Chile	12th December 2016- 18th December 2016	Visiting Professor
Russia	21st November 2016 -25th November 2016	Visiting Professor
Germany	25th May 2016- 19th August 2016	Visiting Professor
Taiwan	21st April 2016- 2nd May 2016	Visiting Professor
Taiwan	14th December 2015- 24th December 2015	Visiting Professor
Russia	14th September 2015- 22nd September 2015	Visiting Professor
Taiwan	15th June 2015- 28th June 2015	Visiting Professor
Chile	22nd May 2015- 8th June 2015	Visiting Professor
Taiwan	3rd January 2015- 17th January 2015	Visiting Professor
Spain	8th September 2014- 20th September 2014	Visiting Professor
Taiwan	16th June 2014- 7th July 2014	Visiting Professor
Taiwan	6th January 2014- 24th January 2014	Visiting Professor
Taiwan	29th May 2013- 17th June 2013	Visiting Professor
Taiwan	12th Dec 2012- 31st Dec 2012	Visiting Professor
Spain	25th June 2012- 13th July 2012	Visiting Professor
Taiwan	22nd May 2012- 15th June 2012	Visiting Professor
Australia	24th June 2011- 8th July 2011	Visiting Professor
Taiwan	23rd May 2011- 23rd June 2011	Visiting Professor

Taiwan	7th June 2010- 7th July 2010	Visiting Professor
United Kingdom	30th Sep 2009- 3rd Oct 2009	Visiting Academic
Taiwan	25th May 2009- 10th July 2009	Visiting Professor
Australia	18th May 2008- 1st August 2008	Visiting Academic
Korea	20th Dec 2007 – 2nd Jan 2008	Visiting Researcher
Australia	29th Oct 2007- 30th Nov 2007	TEQIP (India) Visiting Researcher
Japan	April 2004 – Mar 2005	JST (Japan) Visiting Scientist
Hong Kong	Sep 2003 – Mar 2004	Post-doctoral Fellow
Korea	Mar 2002 – Feb 2003	Post-doctoral Fellow

21. Publications

(A) Refereed Research Journals: **335**

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal
Ummu Habeeba AA, Ahalya G, Andrea S, Syed A, Marraiki N, Anandan S	Synthesis and characterization of Poly-3-(9H-carbazol-9-yl)propylmethacrylate as a gel electrolyte for dye-sensitized solar cell applications	POLYMER BULLETIN	79	921-934	2022	2.87
Reshma K, Vinoth V, Amol SS, Valdes H, Mangalaraja RV, Aljafari B, Anandan S	Highly sensitive and selective detection of glutathione using ultrasonic aided synthesis of graphene quantum dots embedded over aminefunctionalized silica nanoparticles	ULTRASONICS SONOCHEMISRY	82	105868	2022	7.491
Pugazhenthiran N, Murugesan S, Hector Valdes, Selvaraj M, Sathishkumar P, Smirniotis PG, Anandan S,	Photocatalytic oxidation of Ceftiofur sodium under UV-visible irradiation using plasmonic porous Ag-TiO_2 nanospheres	Journal of Industrial and Engineering Chemistry	25	384-392	2022	5.278

Mangalaraja RV						
Reshma K, Nishant Mansukhlal P, Aljafari B, Anandan S, Ashokkumar M	Ultrasound-aided synthesis of Gold-loaded Boron-doped Graphene Quantum dots interface towards simultaneous electrochemical determination of guanine and adenine biomolecules	ULTRASONICS SONOCHEMISRY	83	105921	2022	7.491
Karuppasamy L, Gurusamy L, Anandan S, Liu N, Lee GJ, Liu CH, Wu JJ	Defect-enriched Heterointerface N-MoO_2-Mo_2C supported Pd Nanocomposite as a novel multifunctional electrocatalyst for oxygen reduction reaction and overall water splitting	MATERIALS TODAY CHEMISTRY	24	100799	2022	8.301
Gurusamy L, Karuppasamy L, Anandan S, Liu CH, Wu JJ	Defective engineering of Heterostructured N-Mo_2C@MoO_{3-x} electrode materials for the dual function of electrochemical sensing and supercapacitor applications	ELECTROCHIMICA ACTA	408	139964	2022	6.901
Saravanakumar V, Rajagopal V, Kathiresan M, Suryanarayanan V, Anandan S	Cu-MOF derived CuO nanoparticle decorated amorphous carbon as an electrochemical platform for the sensing of caffeine in real samples	JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS	133	104248	2022	5.876
Balamurugan S, Ganesan S, Santhosh K, Eswaramoorthi T, Ahalya G, Anandan S	Effect of an aqueous copper gel electrolyte with cobalt metal organic framework based additive on performance of aqueous dye-sensitized solar cell applications	SOLAR ENERGY	236	586-598	2022	5.742
Nor Saadah MY, Anandan S, Sivashanmugam P, Flores EMM,Ashokkumar M	A correlation between cavitation bubble temperature, sonoluminescence and interfacial chemistry-A minireview	ULTRASONICS SONOCHEMISRY	85	1059881	2022	7.491

Ujwala OB, Karthik RK, Wu JJ, Syed A, Marraiki N, Vinoth Kumar P, Anandan S	Facile hydrothermal synthesis of Tungsten Tri-oxide/Titanium Di-oxide Nanohybrid structures as Photocatalyst for wastewater treatment Application	JOURNAL OF CLUSTER SCIENCE	xx	xxx- xxx	2022	3.061
Haridharan N, Dhivya S, Lee GJ, Karuppasamy L, Anandan S, Wu JJ	Oil Spills adsorption and cleanup by polymeric materials: A Review	POLYMER FOR ADVANCED TECHNOLOGIES	xx	xxx- xxx	2022	3.665
Aljafari B, Arulmani S, Arash T, Anandan S	Sonochemical decoration of Palladium Graphene Carpet for Electrochemical Methanol Oxidation	JOURNAL OF ELECTROANALYTICAL CHEMISTRY	913	116289	2022	4.464
John Peter I, Vijaya S, Anandan S, Karazhanov S, Nithiananthi P	MWCNT aided Cobalt Antimony Sulfide Electrocatalyst for Dye-Sensitized Solar Cells and Supercapacitors: Designing Integrated Photo-Powered Energy System	JOURNAL OF THE ELECTROCHEMICAL SOCIETY	169	056518	2022	4.316
Madappa C M, Aljafari B, Anandan S, Ashokkumar	Synergistic impacts of sonolysis aided photocatalytic degradation of water pollutant over perovskite-type $CeNiO_3$ nanospheres	NEW JOURNAL OF CHEMISTRY	46	10117-10127	2022	3.591
Karuppasamy L, Gurusamy L, Anandan S, Liu CH, Wu JJ	Perovskite nanocomposite of Defective Yolk-Shell $BaHo_2CO_3O_{8-x}$ for electrochemical sensing of Ractopamine in pork meat sample	MATERIALS TODAY CHEMISTRY	25	100965	2022	8.301
Ahalya G, Chen HY, Vinothkumar P, Aljafari B, Anandan S	Preparation of Poly (□-caprolactone) as a gel electrolyte for dye-sensitized solar cells	POLYMER FOR ADVANCED TECHNOLOGIES	33	2560-2570	2022	3.665
Aljafari B, Vijaya S, Arash T, Anandan S	Copper doped Manganese dioxide as counter electrode for dye-sensitized solar cells	ARABIAN JOURNAL OF CHEMISRY	15	104068	2022	5.165
Abisharani JMLR,	Effect of a locust bean gum	NEW JOURNAL	46	13156-	2	3.591

Ahalya G, Devikala S, Anandan S	based gel electrolyte with nanocomposite additives on the performance of a dye sensitized solar cells	OF CHEMISTRY		13166	0 2 2	
Mohanran K, Ganesan S, Balamurugan S, Santhosh K, Ahalya G, Anandan S	A locust bean and pectin polymer blend integrated with thio-bridged pyridinyl additive as a novel cobalt and copper gel electrolyte system for dye-sensitized solar cells	OPTICAL MATERIALS	131	112657	2 0 2 2	3.08
Suresh S, Rangesh S, Ahalya G, Anand M, Anandan S	Photovoltaic performance of Gracilaria corticate seaweed extract in dye-sensitized solar cells	JOURNAL OF OPTICS	xx	xxx- xxx	2 0 2 2	2.516
Vijaya S, Lobato K, Aljafari B, Anandan S	Insights into MoS_2 and its composites for dye-sensitized solar cells	INTERNATIONAL JOURNAL OF ENERGY RESEARCH	xx	xxx- xxx	2 0 2 2	5.164
Zhu JJ, Xia H, Son Y, Wu, X, Tao, Y Anandan S	Editorial: Special issue on "Sonochemistry in Asia 2021"	ULTRASONICS SONOCHEMISTRY	87	106050	2 0 2 2	7.491
Reshma K, Senthilkumar P, Aljafari B, Anandan S	A nanosecond pulsed laser-ablated MWCNT-Au heterostructure: An innovative ultra-sensitive electrochemical sensing prototype for the identification of Glytathione	ANALYST	xx	xxx- xxx	2 0 2 2	4.616
Ragini P, Sivashanmugam P, Syed A, Elgorban AM, Anandan S, Ashokkumar M	Mercury removal from aqueous solution using petal-like MoS_2 nanosheets	FRONTIERS OF ENVIRONMENTAL SCIENCE & ENGINEERING	15	1-10	2 0 2 1	4.357
Lin, X, Mingxuan S, Gao B, Ding W, Zhang Z, Anandan S, Umar A	Hydrothermally regulating phase composition of TiO2 nanocrystals toward high photocatalytic activity	JOURNAL OF ALLOYS & COMPOUNDS	850	156653	2 0 2 1	5.316

Gurusamy L, Karuppasamy L, Anandan S, Liu N, Lee GJ, Liu CH, Wu JJ	Enhanced performance of charge storage supercapattery by dominant oxygen deficiency in crysgal defects of 2-D MoO3-x nanoplates	APPLIED SURFACE SCIENCE	541	148676	2021	6.86
Devika Bai, Anandan S, Mohd Yusof NS, Pollet BG, Ashokkumar M	Sonochemical dosimetry A comparitive study on the validation of Weissler, Fricke and Terephthalic acid methods	ULTRASONICS SONOCHEMISTRY	72	105413	2021	7.491
Hakke V, Shirish S, Anandan S, Shriram S, Ashokkumar M	Process intensification approach using microreactors for synthesizing nanomaterials - A critical review	NANOMATERIALS	11(98)	1-21	2021	4.921
Anandababu A, Anandan S, Syed A, Marraiki N, Ashokkumar M	Upper rim modified Calix[4]arene towards selective turn-on fluorescence sensor for spectroscopically silent metal ions	INORGANICA CHIMICA ACTA	516	120133	2021	2.545
Vijaya S, Landi G, Wu JJ, Anandan S, Ashokkumar M	Platinum-free dye-sensitized solar cells by flower-like mixed phase $Co_xS_y/Ni_xS_y/Mo_xS_y$ composites	NEW JOURNAL OF CHEMISTRY	45	1967-1976	2021	3.591
Lee, GJ, Chien YW, Anandan S, Cong Lv, Dong J, Wu JJ	Fabrication of metal-doped BiOI/MOF composite photocatalysts with enhanced photocatalytic performance	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	46	5949-5962	2021	7.139
Lee, GJ, Hou, YH, Chen, CY, Tsay, CY, Chang, YC, Chen, JH, Horng, TL, Anandan S, Wu JJ	Enhanced performance of photocatalytic hydrogen evolution using MoS2/graphene hybrids	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	46	5938-5948	2021	7.139
John Peter S, Rajamanickam N, Vijaya S, Anandan S,	Alternative low-cost photon sensitizer for dye-sensitized solar cells using less explored natural fabric	INTERNATIONAL JOURNAL OF ENERGY RESEARCH	45	7764-7782	2021	5.164

Ramachandran K, Nithiananthi P	dyes					
John Peter S, Rajamanickam N, Vijaya S, Anandan S, Ramachandran K, Nithiananthi P	Performance of natural sensitizers on TiO_2 hollow nano sphere based solar cells	MATERIALS TODAY: PROCEEDINGS	35	35-38	2021	1.46
Ramachandran N, Anandan S, Syed A, Marraiki N	Aqueous dependent sensing of hydrazine and phosphate anions using bis-heteroleptic Ru(II) complex with phthalimide anchored pyridine-triazole ligand	ANALYST	146	1430-1443	2021	4.616
Vinoth V, Subramaniyam G, Anandan S, Hector Valdes, Paulraj M	Non-enzymatic glucose sensor and photocurrent performance of multi-walled carbon nanotubes anchored with Zinc oxide quantum dots	MATERIALS SCIENCE & ENGINEERING B	265	115036	2021	4.051
Martha Purnachander Rao, Asiri AM, Wu JJ, Anandan S	Rice grain like Bi_2S_3 nanorods and its photocatalytic performance	MATERIALS SCIENCE & ENGINEERING B	268	115144	2021	4.051
Reshma K, Yogesh GK, Sastikumar D, Wu JJ, Anandan S, Ashokkumar M	Laser-assisted decoration of carbon nanotubes with palladium nanoparticles for application in electrochemical methanol oxidation	BULLETIN OF MATERIAL SCIENCE	44	125 (1-11)	2021	1.783
Balamurugan S, Ganesan S, Santhosh K, Ahalya G, Anandan S	Effect of 1-substituted 2-(Pyridin-2-yl)-1H-Benzo[d]imidazole ligands coordinated Copper and Cobalt complex redox-electrolytes on performance of Ru(II) dyes based dye-sensitized solar cell applications	INORGANIC CHEMISTRY	60	1937-1947	2021	5.165

Ummu Habeeba AA, Saravanan M, Sabari Girisun TC, Anandan S	Nonlinear Optical Studies of Conjugated Organic Dyes for Optical Limiting Applications	JOURNAL OF MOLECULAR STRUCTURE	1240	130559	2021	3.196
Selvamani T, Anandan S, Maruthamuthu P, Asiri AM, Ashokkumar M	Preparation of $MgTi_2O_5$ nanoparticles for sonocatalytic degradation of triphenylmethane dyes	ULTRASONICS SONOCHEMISTRY	75	105585	2021	7.491
Haridharan N, Lee GJ, Anandan S, Andrea S, Chuang YH, Liu CH, Wu JJ	Effective Carbon dioxide sorption by using Phyllosilicate anchored Poly(quaternary ammoniumhydroxidemethylstyrene)	ENVIRONMENTAL TECHNOLOGY	xx	1-11	2021	3.247
Ahalya G, Chen HY, Vinothkumar P, Andrea S, Anandan S	Synthesis of high polydispersity index Polylactic acid and its application as gel electrolyte towards fabrication of dye-sensitized solar cells	JOURNAL OF POLYMER RESEARCH	28	252 (1-12)	2021	3.061
John Peter S, Vijaya S, Anandan S, Nithiananthi P	Sb_2S_3 entrenched MWCNT composite as a low-cost Pt free counter electrode for Dye-sensitized solar cell and a viewpoint for a photo-powered energy system	ELECTROCHIMICA ACTA	390	138864 (1-9)	2021	6.901
Karuppasamy L, Gurusamy L, Anandan S, Liu CH, Wu JJ	Graphene Nanosheets supported high-defective Pd Nanocrystals as an efficient electrocatalyst for Hydrogen evolution reaction	CHEMICAL ENGINEERING JOURNAL	425	131526	2021	13.273
Santhosh K, Ganesan S, Ahalya G, Balamurugan S, Eswaramoorthi T, Mohanraj K, Anandan S	Performance of 4-Substituted Pyridine Based Additive and Cobalt Redox in PEF-HEC Polymer Electrolytes withDTTCY Sensitized on Dye Sensitized Solar Cells	ENERGY & FUELS	35	15045-15057	2021	3.605

Gurusamy L, Karuppasamy L, Anandan S, Liu CH, Wu JJ	Hierarchical N-Mo_3C_2/Mo_2C Nanohybrids and their superior supercapacitor performance in an ionic liquid electrolyte	JOURNAL OF ENERGY STORAGE	44	103317	2021	6.583
Madappa C M, Anandan S, Aljafari B, Wu JJ	$LaCo_xFe_{1-x}O_3$ (0≤ x≤ 1) spherical nanostructures prepared via ultrasonic approach photocatalysts	ULTRASONICS SONOCHEMISTRY	80	105824	2021	7.491
Snehya AV, Sundaramahalingam MA, Rajeshbanu J, Anandan S, ,Sivashanmugam P	Studies on evaluation of surfactant coupled sonication pretreatment on Ulva Fasciata (Marine macroalgae) for enhanced Biohydrogen production	ULTRASONICS SONOCHEMISTRY	81	105853	2021	7.491
Boomdevi S, Ramachandran N, Balamurugan K, Pandiyan K, Anandan S, Sastikumar D	Growth, Crystal structure, optical and DFT studies of 2-{3-[2-(4-dimethylaminophenyl) vinyl]-5,5-dimethylcyclohex-2enylidene}-malonitrile (DAT2) crystal	INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY	121	e26741	2021	2.444
Durai G, Kuppusami P, Arulmani S, Anandan S, Khadeer Pasha S, Kheawhom S	Microstructural and Electrochemical Supercapacitive Properties of Cr doped CuO thin films: Effect of substrate temperature	INTERNATIONAL JOURNAL OF ENERGY RESEARCH	14	20001-20015	2021	5.164
Vinoth V, Pugazhenthiran N, Mangalaraja RV, Syed A, Marraiki N, Hector Valdes, Anandan S	Development of electrochemical enzyme-free glucose sensor based on self-assembled Pt-Pd bimetallic nanosuperlattices	ANALYST	145	7898-7906	2020	4.616
John Peter S, Rajamanickam N, Vijaya S, Anandan S, Ramachandran K,	TiO_2/Graphene Quantum dots core-shell based photoanodes with TTIP treatment-a perspective way of enhancing the short	SOLAR ENERGY MATERIAL AND SOLAR CELLS	205	110239	2020	7.267

Nithiananthi P	circuit current					
Gurusamy L, Anandan S, Liu, N, Wu JJ	Synthesis of a Novel Hybrid Anode Nanoarchitecture of Bi_2O_3/Porour RGO Nanosheets for High-Performance Asymmetric Supercapacitor	JOURNAL OF ELECTROANALYTICAL CHEMISTRY	856	113489	2020	4.464
Gurusamy L, Lee GJ, Anandan S, Liu, N, Wu JJ	Fabrication of Molybdenum Oxycarbide Nanoparticles disperson on Nitrogen doped Carbon Hollow Nanotubes through anion exchange mechanism for enhanced performance in Supercapacitor	JOURNAL OF ENERGY STORAGE	27	101122	2020	6.583
Mingxuan S, Yuan Y, Wen D, Anandan S	N/Ti^{3+} co-doping biphasic TiO_2/Bi_2WO_6 heterojunctions: Hydrothermal fabrication and sonophotocatalytic degradation 0f organic pollutants	JOURNAL OF ALLOYS & COMPOUNDS	820	153172	2020	5.316
Gnana Sundara Raj B, Baskaran N, Wu JJ, Anandan S	Pseudocapacitive Performance of Nickel Oxide Nanoparticles Synthesized via Ultrasonication Approach	IONICS	26	953-960	2020	3.785
Haridharan N, Der-Kang Y, Lee GJ, Anandan S, Wu JJ	Synthesis of Magnetite Nanoparticles Anchored Cellulose and Lignin-based Carbon Nanotube Composites for Rapid Oil Spill Cleanup	MATERIALS TODAY COMMUNICATIONS	22	100746	2020	3.383
Martha Purnachander Rao, Kaviarasan K, Vinoth Kumar P, Wu JJ, Anandan S	Surfactant-Assisted Synthesis of Copper Oxide Nanorods for the Enhanced Photocatalytic Degradation of Textile Dye Reactive Black-5 in Wastewater	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	27	17438-17445	2020	5.190
Sathya Sheela S, Anandan S, Baskaran N	Density functional theory studies of structural distortion in lone pair	MATERIALS TODAY COMMUNICATIO	24	101079 (1-5)	202	3.383

	substituted $LuMnO_3$	NS			0	
Ramachandran N, Anandan S	Triazole appending ruthenium(II) polypyridine complex for selective sensing of phosphate anions through C-H-anion interaction and copper(II) ions via cancer cells	NEW JOURNAL OF CHEMISTRY	44	6186-6196	2020	3.591
Krishna S, Sathishkumar P, Pugazhenthiran N, Guesh K, Mangalaraja RV, Kumaran S, Gracia-Pinilla MA, Anandan S	Magnetically recyclable $CoFe_2O_4$/ZnO nanocatalysts for the efficient catalytic degradation of Acid Blue 113 under ambient conditions	RSC ADVANCES	10	16473-16480	2020	4.036
Gnana Sundara Raj B, Angulakshmi R, Baskaran N, Wu JJ, Anandan S, Ashokkumar M	Pseudocapacitive Performance of Mn_3O_4-SnO_2 hybrid nanoparticles Synthesized via Ultrasonication Approach	JOURNAL OF APPLIED ELECTROCHEMISTRY	50	609-619	2020	2.398
Krishnaveni M, Asiri AM, Anandan S	Ultrasound-assisted synthesis of unzipped multiwalled carbon nanotubes/titanium dioxide nanocomposite as a promising next-generation energy storage material	ULTRASONICS SONOCHEMISTRY	66	105105	2020	7.491
Anandan S, Vinoth Kumar P, Ashokkumar M	A review on hybrid techniques for the degradation of organic pollutants in aqueous environment	ULTRASONICS SONOCHEMISTRY	67	105130	2020	7.491
Karuppasamy L, Lee GJ, Anandan S, Wu JJ	Synthesis of shape-controlled Pd nanocrystals on carbon nanospheres and electrocatalytic oxidation performance for ethanol and ethylene glycol	APPLIED SURFACE SCIENCE	519	146266	2020	6.86
Haridharan N, Der-Kang Y, Lee	Synthesis of Magnetite-Based Polymers as Mercury	ACS OMEGA	5	7201-7210	20	4.132

GJ, Anandan S, Sorrentino A, Wu JJ	and Anion Sensors using Single Electron Transfer-Living Radical Polymerization				2020	
Chen HC, Lyu YR, Fang A, Lee GJ, Karuppasamy L, Wu JJ, Lin, CK, Anandan S, Chen CY	The design of ZnO nanorod arrays coated with MnOx for high electrochemical stability of a pseudocapacitor electrode	NANOMATERIALS	10	475	2020	4.921
Lee GJ, Lee XY, Lyu C, Liu N, Anandan S, Wu JJ	Sonochemical synthesis of Copper-doped $BiVO_4/gC_3N_4$ nanocomposite materials for Photocatalytic degradation of Bisphenol A under simulated sunlight irradiation	NANOMATERIALS	10	498	2020	4.921
Rubyraj M, Ramachandran N,Ummu Habeeba AZ, Sorrentino A, Anandan S, Ashokkumar M	Synthesis of random copolymer using zig-zag Naphthodithiophene for bulk heterojunction polymer solar cell applications	JOURNAL OF POLYMER RESEARCH	27	171	2020	3.061
Krishna S, Sathishkumar P, Pugazhenthiran N, Guesh K, Mangalaraja RV, Kumaran S, Gracia-Pinilla MA, Anandan S	Heterogeneous sonocatalytic activation of peroxomonosulphante in the presence of $CoFe_2O_4/TiO_2$ nanocatalysts for the degradation of Acid Blue 113 in an aqueous environment	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	8	104024	2020	7.49
Krishnaveni M, Cini MS, Wu JJ, Asiri AM, Anandan S, Ashokkumar	Synthesis of 3D marigold flower-like $rGO/BN/Ni(OH)_2$ ternary nanocomposites for supercapacitor applications	SUSTAINABLE ENERGY & FUELS	4	3090-3101	2020	6.367
Kaviarasan S, Sivasankar S, Vinoth Kumar P, Anandan S	Ni-ZnO nanocomposites assembled under varios morphologies like columnar, nanochains and granular structure for removal of pollutants	MATERIALS CHEMISTRY & PHYSICS	252	123299	2020	4.094

John Peter S, Vijaya S, Anandan S, Nithiananthi P	Microwave synthesis and analysis of Sb_2S_3 nanostructures as IR photon-absorber and counter electrode for the design of symmetric solar cells	MATERIALS LETTERS	276	128160	2020	3.423
Madappa SM, Wu JJ, Mangalaraja RV, Anandan S	Ultrasonic assisted preparation of perovskite-type Lanthanum Nickelate nanostructures and its photocatalytic properties	CHEMISTRY SELECT	5	7947-7958	2020	2.307
Kathiravan G, Yamini KR, Rajagopal K, Anandan S, Kim KJ, Jung YS, Kim HJ, Senthil Kumaran R	Phytogenic synthesis of Nanosilver from Madagascar Periwinkle extracts and their Angiogenic activities in Zebrafish Embryos (ZFE)	NANOSCIENCE & NANOTECHNOLOGY LETTERS	12	79-87	2020	1.128
Ahalya G, Andrea S, Asiri AM, Anandan S	Guar Gum-based polymer gel electrolytes for dye-sensitized solar cells	SOLAR ENERGY	208	160-165	2020	5.742
Ding W, Mingxuan S, Gao B, Liu W, Ding Z, Anandan S	Ball-milling synthesis of N-graphyne with controllable nitrogen doping sites for efficient electrocatalytic oxygen evolution and supercapacitor	DALTON TRANSACTIONS	49	10958-10969	2020	4.39
Vijaya S, Landi G, Neitzert HC, Anandan S	Band bending effect of LiI/NaI treated TiO_2 photoanode on performance of dye-sensitized solar cells	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	22	18183-18191	2020	3.676
Krishnaveni M, Wu JJ, Anandan S, Ashokkumar M	Facile synthesis of SnO_2 nanoparticles intercalated unzipped multi-walled carbon nanotubes via ultrasound-assisted route for symmetric supercapacitor devices	SUSTAINABLE ENERGY & FUELS	4	5120-5131	2020	6.367

Vijaya S, Landi G, Wu JJ, Anandan S	Ni_3S_4/CoS_2 mixed-phase Nanocomposite as Counter Electrode for Pt-free Dye-sensitized Solar Cells	JOURNAL OF POWER SOURCES	478	2290688	2020	9.127
Pugazhenthiran N, Mangalaraja RV, Vijaya S, Suresh S, Kandasamy M, Sathishkumar P, Valdes H, Gracia-Pinilla MA, Murugesan S, Anandan S	Fluorine-Free Synthesis of Reduced Graphene Oxide modified Anatase TiO_2 Nanoflowers Photoanode with Highly Exposed {001} Facets for High Performance Dye-Sensitized Solar Cell	SOLAR ENERGY	211	1017-1026	2020	5.742
Vijaya S, Landi G, Wu JJ, Anandan S	MoS_2 nanosheets based counted electrodes: An alternative for Pt-free dye-sensitized solar cells	ELECTROCHIMICA ACTA	294	134-141	2019	6.901
Arulmani S, Wu JJ, Anandan S	Ultrasound Promoted Transition Metal doped Polyaniline Nanofibers: Enhanced Electrode Materials for Electrochemical Applications	ULTRASONICS SONOCHEMISTRY	51	469-477	2019	7.491
Kaviyarasan K, Vinoth V, Sivasankar T, Asiri AM, Wu JJ, Anandan S	Photocatalytic and Photoelectrocatalytic performance of Sonochemically Synthesized $Cu_2O@TiO_2$ Heterojunction Nanocomposites	ULTRASONICS SONOCHEMISTRY	51	223-229	2019	7.491
Lina T, Vladimir B, Zhanna N, Anandan S, Tatyana K, Andrey S, Irina, P, Olga	The study of changes in raw meat salting using acoustically activated brine	ULTRASONICS SONOCHEMISTRY	50	224-229	2019	7.491
Sabari Girisun C, Jeganathan C, Pavithra N, Anandan S	Structurally modified bacteriorhodopsin as an efficient bio-sensitizer for solar cell applications	EUROPEAN BIOPHYSICS JOURNAL	48	61-71	2019	1.733

Ujwala OB, Wu JJ, Asiri AM, Anandan S	Synthesis of $MgTiO_3$ Nanoparticles for Photocatalytic Applications	CHEMISTRY SELECT	4	788-796	2019	2.307
John Peter S, Ramachandran K, Vijaya S, Anandan S, Nithiananthi P	Effect of Phosphor on the efficiency of TiO_2/CdS/Ag_2S heterostructures based solar	MATERIALS LETTERS	240	291-294	2019	3.423
Rajeshkumar V, Neelamegam C, Anandan S	One-pot metal-free protocol for the synthesis of chalcogenated Furans from 1,4-enediones and thiols	ORGANIC & BIOMOLECULAR CHEMISTRY	17	982-991	2019	3.876
Kai-Syuan J, Chi-Jung C, Wu JJ, Yu-Cheng C, Chien-Yie T, Jing-Heng C, Tzyy-Leng H, Gang-Juan L, Karuppasamy L, Anandan S, Chin-Yi C	High Response CO Sensor based on a Polyaniline/SnO_2 nanocomposite	POLYMERS	11	184(1-16)	2019	4.329
Jeganathan C, Sabari Girisun C, Vijaya S, Anandan S	Bacteriorhodopsin sensitized Preferentially Oriented One Dimensional TiO_2 Nanorod Polymorphs as efficient Photoanodes for High-Performance Bio-Sensitized solar cells applications	APPLIED NANOSCIENCE	9	189-208	2019	3.674
Karuppasamy L, Chen CY, Anandan S, Wu JJ	Low and High Index Faceted Pd Nanocrystals Embedded in various Oxygen-deficient WOx Nanostructures for Electrocatalytic Oxidation of Alcohol (EOA) and Carbon Monoxide (CO)	APPLIED MATERIALS & INTERFACES	11	10028-10041	2019	10.38
Yuan Y, Mingxuan S, Zihan Z, Xiaojing L, Bowen G,	In situ synthesis of MoO3/Ag/TiO2 nanotube arrays for enhancement of visible-light	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	44	9348-9358	2019	7.139

Anandan S, Wei L	photoelectrochemical performance					
Karuppasamy L, Chen CY, Anandan S, Wu JJ	Sonochemical reduction method for synthesis of TiO_2 - Pd nanocomposites and investigation of anode and cathode catalyst for ethanol oxidation and oxygen reduction reaction in alkaline medium	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	44	30705-30718	2019	7.139
Senthil Kumar P, Anandan S, Subramanian N	Cathepsin D Degradable Dendrimer-MPEG-Histone 3-Enrofloxacin Conjugate Nanovehicle for Target Specific Bovine Mastitis Therapy	INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH & THERAPEUTICS	25	1451-1458	2019	1.931
Martha Purnachander Rao, Akhila AK, Wu JJ, Asiri AM, Anandan S	Synthesis, Characterization and Adsorption Properties of $Cu_2V_2O_7$ Nanoparticles	SOLID STATE SCIENCES	92	13-23	2019	3.50
Martha Purnachander Rao, Musthafa S, Wu JJ, Anandan S	Facile Synthesis of Perovskite $LaFeO_3$ Ferroelectric Nanostructures for Heavy Metal Ion Removal Applications	MATERIAL CHEMISTRY AND PHYSICS	232	200-204	2019	4.094
Ujwala OB, Wu JJ, Asiri AM, Anandan S	Synthesis of $ZnTiO_3$@TiO_2 heterostructure nanomaterial as a visible light photocatalyst	CHEMISTRY SELECT	4	6106-6112	2019	2.307
Arulmani S, Vinoth Kumar P, Landi G, Anandan S	Ultrasound-assisted Synthesis of PdCu nanoalloy supported on Carbon Materials for Methanol and Ethylene Glycol Electrooxidation	CHEMISTRY SELECT	4	6130-6139	2019	2.307
Ramachandran N, Anandan S, Ashokkumar M	Luminescent On-Off Probe based Calix[4]arene linked through Triazole with Ruthenium (II) Polypyridine Complexes to Sense	NEW JOURNAL OF CHEMISTRY	43	9832-9842	2019	3.591

	Copper (II) and Sulfide ions					
Jeganathan C, Sabari Girisun C, Vijaya S, Anandan	Improved Charge Collection and Photoconversion of Bacteriorhodopsin sensitized Solar Cells Coupled with Reduced Graphene Oxide Decorated One Dimensional TiO_2 Nanorod Hybrid Photoanodes	ELECTROCHIMICA ACTA	319	909-921	2019	6.901
John Peter S, Vignesh G, Vijaya S, Anandan S, Ramachandran K, Nithiananthi P	Enchancing the power conversion efficiency of $SrTiO_3$/CdS/Bi_2S_3 quantum dot based solar cell using Phosphor	APPLIED SURFACE SCIENCE	494	551-560	2019	6.86
Rajeshkumar V, Neelamegam C, Anandan S	An Expedient, Direct, Three-Component Approach for the Synthesis of 4-Thioarylpyrroles	SYNTHESIS	51	4023-4033	2019	2.969
Vinoth V, Lakshmi NM, Mangalaraja RV, Asiri AM, Hector Valdes, Anandan S	Simultaneous Electrochemical Nanomolar detection of Dopamine and Epinephrine using Silica Network Functionalized Gold Nanocrystals capped with Graphene Quantum dots	MICROCHIM ACTA	186	681(1-12)	2019	6.232
Harikrishnan M, Sadhasivam V, Siva A, Anandan S, Vijaya S, Murugesan S	Energy Level Tuning of Novel Star Shaped D-p-D-A Based Metal Free Organic Dyes for Solar Cell Applications	JOURNAL OF PHYSICAL CHEMISTRY C	123	21959-21968	2019	4.126
Sathya Sheela S, Anandan S, Baskaran N	Stabilization of E-type Antiferromagnetic Ordering in La and Y Substituted Orthorhombic $LuMnO_3$: A First-Principle Study	PHYSICS LETTERS A	383	125950	2019	2.066
Vijaya S, Landi G, Wu JJ, Anandan S	MoS_2 coated CoS_2 nanocomposites as counter electrodes in Pt-free dye-	PHYSICAL CHEMISTRY CHEMICAL	21	25474-25483	201	3.676

	sensitized solar cells	PHYSICS			9	
Gnana Sundara Raj B, Bhuvaneshwari S, Wu JJ, Asiri AM, Anandan S, Sivasankar T	Sonochemical synthesis of Co2SnO4 Nanocubes for Supercapacitor Applications	ULTRASONICS SONOCHEMISTRY	41	435-440	2018	7.491
Martha Purnachander Rao, Nandhini VP, Wu JJ, Asad S, Ameen F, Anandan S	Synthesis of N-doped Potassium Tantalate Perovskite Material for Environmental Applications	JOURNAL OF SOLID STATE CHEMISTRY	258	647-655	2018	3.498
Balachandramohan J, Anandan S, Sivasankar T	A simple approach for the sonochemical synthesis of Fe3O4-guargum Nanocomposite and its catalytic reduction of p-nitroaniline	ULTRASONICS SONOCHEMISTRY	40	1-10	2018	7.491
Naveenraj S, Solomon RV, Mangalaraja RV, Venuvanalingam PV, Asiri AM, Anandan S	A multispectroscopic and molecular docking investigation of the binding interaction between serum albumins and acid orange dye	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	192	34-48	2018	4.098
Martha Purnachander Rao, Wu JJ, Asiri AM, Anandan S, Ashokkumar M	Photocatalytic properties of hierarchical CuO nanosheets synthesized by a solution phase method	JOURNAL OF ENVIRONMENTAL SCIENCES	69	115-124	2018	6.796
Karuppasamy L, Chen CY, Anandan S, Wu JJ	Sonochemical fabrication of reduced graphene oxide supported Au nanodendrites for ethanol electrooxidation in alkaline medium	CATALYSIS TODAY	307	308-317	2018	6.766
Jeganathan C, Pavithra N, Sabari Girisun C, Anandan S,	Tunable photovoltaic performance of preferentially oriented rutile TiO_2 nanorod	NANOTECHNOLOGY	29(8)	085605	2018	3.874

Ashokkumar M	photoanodes based dye sensitized solar cells with quasi-state electrolyte					
Martha Purnachander Rao, Wu JJ, Asad S, Ameen F, Anandan S	Synthesis of Dandelion - like CuO microspheres for photocatalytic degradation of Reactive Black-5	MATERIAL RESEARCH EXPRESS	5	015053 (1-13)	2018	1.941
Martha Ramesh Rao, Martha Purnachander Rao, Anandan S	Adsorption and photocatalytic properties of NiO nanoparticles synthesized via a thermal decomposition process	JOURNAL OF MATERIALS RESEARCH	33	601-610	2018	5.039
Martha Purnachander Rao, Sathishkumar P, Mangalaraja RV, Asiri AM, Sivashanmugam P	Simple and low cost Synthesis of CuO nanosheets for Visible Light Driven Photocatalytic Degradation of Textile Dyes	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	6	2003-2010	2018	7.49
Naveenraj S, Mangalaraja RV, Krasulyaa O, Asad S, Ameen F, Anandan S	A General Microwave synthesis of Metal (Ni, Cu, Zn) Selenide Nanoparticles and their Competitive Interaction with Human Serum Albumin	NEW J CHEMISTRY	42	5759-5766	2018	3.591
Vinoth V, Daliya Shergilin T, Asiri AM, Wu JJ, Anandan S	Facile synthesis of Copper Oxide Microflowers for Nonenzymatic Glucose Sensor Applications	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	82	31-38	2018	3.927
Landi G, Vijaya S, Srinivas Reddy K, Andrea S, Anandan S, Praveen CR, Neitzert HC	Evidence of Bipolar Resistive Switching Memory in Perovskite Solar Cell	IEEE	6	454-463	2018	3.476
Anandababu A, Anandan S, Ashokkumar M	A Simple Discriminating p-tert-Butylcalix[4]arene Thiospirolactam Rhodamine b Based	CHEMISTRYSELECT	3(16)	4413-4420	2018	2.307

	colorimetric and Fluorescence Sensor for Mercury i on and live cell imaging					
Krasulya O, Potoroko I, Tsirulnichenko L, Khmelev S, Bogush V, Anandan S	Sonochemical Effects on Food Emulsions	AGRONOMY RESEARCH	16	1396-1404	2018	1.336
Selvamani T, Anandan S, Granone L, Bahnemann D, Ashokkumar M	Phase-controlled synthesis of bismuth oxide polymorphs for photocatalytic applications	MATERIAL CHEMISTRY FRONTIERS	2	1664-1673	2018	6.059
Naveenkumar P, Kalaignan GP, Arulmani S, Anandan S	Solvothermal synthesis of CuS/$Cu(OH)_2$ nanocomposite electrode materials for supercapacitor application	JOURNAL OF MATERIALS SCIENCE AND MATERIALS IN ELECTRONICS	29	16853-16863	2018	2.478
Anandan S, Manoharan S, Siji Narendran NK, Sabari Girisun TC, Asiri AM	Donor-acceptor substituted thiophene dyes for enhanced nonlinear optical limiting	OPTICAL MATERIALS	85	18-25	2018	3.08
Anjugam Vandarkuzhali SA, Pugazhenthiran N, Mangalaraja RV, Sathishkumar P, Viswanathan B, Anandan S	Ultrasmall Plasmonic Nanoparticles Decorated Hierarchical Mesoporous TiO_2 as an Efficient Photocatalyst for Photocatalytic Degradation of Textile Dyes	ACS OMEGA	3	9834-9845	2018	4.132
Yao Y, Sun M, Yuan X, Zhu Y, Lin X, Anandan S	One-step hydrothermal synthesis of N/Ti^{3+} co-doping multiphasic TiO2/BiOBr heterojunctions towards enhanced sonocatalytic performance	ULTRASONICS SONOCHEMISTRY	49	69-78	2018	7.491
Martha	Hierarchical CuO	JOURNAL OF	6	6059-6068	2	7.49

Purnachander Rao, Vinoth Kumar P, Wu JJ, Asiri AM, Anandan S	Microstructures Synthesis for Visible Light Driven Photocatalytic Degradation of Reactive Black-5 Dye	ENVIRONMENTAL CHEMICAL ENGINEERING			2018	
Rajeshkumar V, Neelamegam C, Chinchu L, Anandan S	Metal- and solvent-free Phosphine mediated synthesis of multisubstituted Furans via intramolecular annulation of 1,4-enediones	CHEMISTRY SELECT	3	11606-11609	2018	2.307
Ujwala OB, Wu JJ, Asiri AM, Anandan S	Photocatalytic Degradation of Congo Red using $PbTiO_3$ Nanorods Synthesized Via a Sonochemical Approach	CHEMISTRY SELECT	3	11851-11858	2018	2.307
Pugazhenthiran N, Mangalaraja RV, Sathishkumar P, Murugesan S, Muneeswaran T, Pandiyarajan T, Naveenraj S, Contreras D, Anandan S	Green synthesis of porous Au-N_x-TiO_2 Nanospheres for solar light induced photocatalytic degradation of diazo and triaxo dyes and their eco-toxic effects	NEW JOURNAL OF CHEMISTRY	42	1817-18728	2018	3.591
Rubyraj M, Margabandu R, Mangalaraja RV, Anandan S	Influence of imide-substituents on the H-type aggregates of perylene diimides bearing cetyloxy side-chains at bay positions	SOFT MATER	13	9179-9191	2017	3.679
Anandan S, Gnana Sundara Raj B, Bahnemann D, Emeline A, Wu JJ	Facile ultrasound assisted synthesis of monodisperse spherical CuMn(OH)3NO3 nanoparticles for energy storage applications	JOURNAL OF ALLOYS & COMPOUNDS	699	745-750	2017	3.133
Venkatesan S, Murugesan P, Pavithra N, Anandan S, Karupasamy S, Madhavan J, Kathiravan A	A combined experimental and computational characterization of D– p–A dyes containing heterocyclic electron donors	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY	332	453-464	2017	2.477
Sun S, Sun M,	One-step thermal synthesis	JOURNAL OF	52	1183-1193	2	2.267

Kong Y, Liu F, Yu Z, Anandan S	of Ag modified g-C3N4/N-doped TiO2 hybrids with enhanced visible-light photocatalytic activity	MATERIALS SCIENCE			0 1 7	
Pugazhenthiran N, Kaviyarasan K, Sivasankar T, Emeline A, Bahnemann D, Mangalaraja RV, Anandan S	Sonochemical Synthesis of Porous NiTiO3 Nanorods for Photocatalytic Degradation of Ceftiofur Sodium	ULTRASONICS SONOCHEMISTRY	35	342-350	2 0 1 7	4.556
Venkatesan S, Murugesan P, Pavithra N, Anandan S, Karupasamy S, Madhavan J, Kathiravan A,	Photophysics, TiO2 Sensitization and Photovoltaic performance of Zn-ProtoporphyrinIX	JOURNAL OF MOLECULAR STRUCTURE	1134	112-120	2 0 1 7	1.602
Arulmani S, Krishnamoorthy S, Wu JJ, Anandan S	High-Performance Electrocatalytic Activity of Palladium-Copper Nanoalloy towards Methanol Electro-oxidation in an Alkaline Medium	ELECTROANALYSIS	29	433-440	2 0 1 7	2.851
Ramamoorthy R, Maheswari G, Maggie DA, Karthika K, Eswaramoorthi V, Anandan S, Manohar S, Victor Williams R	Effect of TiO2/reduced graphene oxide composite thin film as a blocking layer on the efficiency of dye-sensitized solar cells	JOURNAL OF SOLID STATE ELECTROCHEMISTRY	21	891-903	2 0 1 7	2.316
Anandan S, Selvamani T, Krishnamoorthy S, Wu JJ	Magnetic and Catalytic Properties of Inverse Spinel CuFe2O4 Nanoparticles	JOURNAL OF MAGNETISM & MAGNETIC MATERIALS	432	437-443	2 0 1 7	2.630
Saritha G, Mangalaraja RV, Anandan S	High Efficiency Dye-sensitized Solar Cells Fabricated Using D-D-π-A (donor- donor/π-spacer-acceptor) Architecture	SOLAR ENERGY	146	150-160	2 0 1 7	3.541
Martha Purnachander	Photocatalytic Degradation of Tartrazine Dye using	WATER SCIENCE AND	75	1421-1430	2 0	1.212

Rao, Asiri AM, Wu JJ, Anandan S	CuO Straw-Sheaf-like Nanostructures	TECHNOLOGY			17	
Pavithra N, Velayutham D, Sorrentino A, Anandan S	Poly(ethylene oxide) Polymer Matrix Coupled with Urea as Gel Electrolyte for Dye Sensitized Solar Cell Applications	SYNTHETIC METALS	226	62-70	2017	1.829
Pavithra N, Velayutham D, Sorrentino A, Anandan S	Thiourea Incorporated Poly(Ethylene Oxide) as Transparent Gel Polymer Electrolyte for Dye Sensitized Solar Cell Applications	JOURNAL OF POWER SOURCES	353	245-253	2017	6.395
Venkatesan S, Murugesan P, Pavithra N, Anandan S, Karupasamy S, Madhavan J, Kathiravan A,	Pyrene Based D-π-A Architectures: Synthesis, Density Functional Theory, Photophysics and Electron Transfer Dynamics	PHYS. CHEM. CHEM PHYS.	19	3125-3135	2017	4.123
Author(s): Vinoth V, Wu JJ, Asiri AM, Anandan S	Sonochemical synthesis of silver nanoparticles anchored reduced graphene oxide nanosheets for selective and sensitive detection of glutathione	ULTRASONICS SONOCHEMISTRY	39	363-373	2017	4.556
Anandan S, Wu JJ, Bahnemann D, Emeline A, Ashokkumar M,	Crumpled Cu2O-g-C3N4 Nanosheets for Hydrogen Evolution Catalysis	COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS	527	34-41	2017	2.108
SumanaKundu, Sarojinijeeva P, Karthick R, Anantharaj G, Saritha G, Rajesh Bera, Anandan S, Amitava Patra, Ragupathy P, Selvaraj M, Jeyakumar D, Vijayamohanan	Enhancing the Efficiency of DSSCs by the Modification of TiO2Photoanodes using N, F and S, co-doped Graphene Quantum Dots	ELECTROCHIMICA ACTA	242	337-343	2017	6.901

Pillai K						
Karsulya ON, Bogush VI, Khmelev SS, Potoroko I. Yu, Tsirulnichenko, LA, Kanina KA, Yushchina, EA, Anandan S, Sivashanmugam P,	The sonochemical impact on food emulstions	BULLETIN OF THE SOUTH URAL STATE UNIVERSITY SER. FOOD AND BIOTECHNOLOGY	2	38-48	2017	-
Maria Isabel Diez-Garcia, Damian Monllor-Satoca, Vinoth V, Anandan S, Villarreal TL	Electrochemical doping as a way to enhance water photooxidation on nanostructured nickel titanate and anatase electrodes	CHEMELECTROCHEM	4	1429-1435	2017	3.506
Vinoth V, Tanya Maria D' Rozario, Wu JJ, Anandan S, Ashokkumar M	Graphene Quantum Dots Anchored Gold Nanorods for Electrochemical Detection of Glutathione	CHEMISTRYSELECT	2	4744-4752	2017	2.307
Gurusamy L, Anandan S, Wu JJ	Synthesis of Reduced Graphene Oxide Supported Flower-like Bismuth Subcarbonates Microsphere (Bi2O2CO3-RGO) for Supercapacitor Application	ELECTROCHIMICA ACTA	244	209-221	2017	6.901
Anandan S, Keerthiga M, Vijaya S, Asiri, AM, Bogush V, Krasulyaa O	Physicochemical Characterization of Black Seed Oil-Milk emulsions through Ultrasonication	ULTRASONICS SONOCHEMISTRY	38	766-771	2017	4.556
Arulmani S, Wu JJ, Anandan S	Amphiphilic Triblock Copolymer guided Polyaniline embraced CNT nanohybrid with outcropping whiskers as an energy storage electrode	ELECTROCHIMICA ACTA	246	737-747	2017	6.901
Ujwala O. Bhagwat, Wu JJ, Asiri AM, Anandan S	Sonochemical Synthesis of Mg-TiO2 nanoparticles for persistent Congo red dye degradation	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY	346	559-569	2017	2.625

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Sithara R, Selvakumar P, Arun C, Anandan S, Sivashanmugam P	Economical synthesis of silver nanoparticles using leaf extract of Acalypha hispida and its application in the detection of Mn (II) ions	JOURNAL OF ADVANCED RESEARCH	8	561-568	2017	1.665
Karuppasamy L, Anandan S, Chen CY, Wu JJ	Sonochemical Synthesis of PdAg/RGO Nanocomposite as an Efficient Electrocatalyst for Both Ethanol Oxidation and Oxygen Reduction Reaction with High CO-tolerance	ELECTROCATALYSIS	8	430-441	2017	2.398
Karuppasamy L, Chen CY, Anandan S, Wu JJ	High index surfaces of Au-nanocrystals supported on one-dimensional MoO3-nanorod as a bi-functional electrocatalyst for ethanol oxidation and oxygen reduction	ELECTROCHIMICA ACTA	246	75-88	2017	4.803
Sathishkumar P, Mangalaraja RV, Pugazhenthiran N, Galeano MAN, Gracia-Pinilla MA, Mansilla HD, Anandan S	Structural investigation and sonocatalytic efficiency of Ce0.9Nd0.1O1.95 and Ce0.9Pr0.1O1.95 nanocatalysts	MATERIAL CHEMISTRY& PHYSICS	200	241-249	2017	2.101
Ramamoorthy R, Karthika, K Maggie Dayana A, Maheswari G, Eswaramoorthi V, Pavithra N, Anandan S, Victor Williams R	Reduced graphene oxide embedded titanium dioxide nanocomposite as novel photoanode material in natural dye sensitized solar cells	JOURNAL OF MATERIALS SCIENCE: MATERIALS ELECTRONICS	28	13678-13689	2017	1.486
Pavithra N, Asija S, Velayutham D, Anandan S	Effect of Cross-linking on the performances of Starch-Based Biopolymer as Gel Electrolyte for Dye Sensitized Solar Cell Applications	POLYMERS	9	667 (1-13)	2017	4.329
Naveenraj S,	Gold Triangular	LANGMUIR	32	11854–	2	3.993

Mangalaraja RV, Wu JJ, Asiri AM, Anandan S	Nanoprisms and Nanodecahedra-Synthesis and Interaction studies with Luminol towards Biosensor Applications			11860	2016	
Ramamoorthy R, Maheswari G, Maggie DA, Karthika K, Eswaramoorthi V, Anandan S, Manohar S, Victor Williams R	Effect of TiO2/reduced graphene oxide composite thin film as a blocking layer on the efficiency of dye-sensitized solar cells	JOURNAL OF SOLID STATE ELECTROCHEMISTRY	21	891-903	2016	2.327
Anandan S, Keerthiga M, Vijaya S, Asiri, AM, Bogush V, Krasulyaa O	Physicochemical Characterization of Black Seed Oil-Milk emulsions through Ultrasonication	ULTRASONICS SONOCHEMISTRY	38	766-771	2016	4.556
Kaviyarasan K, Anandan S, Mangalaraja RV, Sivasankar T, Ashokkumar M	Sonochemical Synthesis of Cu2O Nanocubes for Enhanced Chemiluminescence Applications	ULTRASONICS SONOCHEMISTRY	29	388-393	2016	4.556
Vinoth V, Wu JJ, Asiri AM, Villarreal TL, Bonete P, Anandan S	Tin Oxide decorated Multiwalled Carbon Nanotubes and Vulcan Carbon through a sonochemical approach for supercapacitor applications	ULTRASONICS SONOCHEMISTRY	29	205-212	2016	4.556
Sathishkumar P, Mangalaraja RV, Anandan S	Review on the recent improvements in sonochemical and combined sonochemical oxidation processes – A powerful tool for destruction of environmental contaminants	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	55	426-454	2016	0.961
Lee GJ, Anandan S , Masten, SJ Wu JJ	Photocatalytic Hydrogen Evolution from Water Splitting Using Cu Doped ZnS Microspheres under Visible Light Irradiation Renewable Energy	RENEWABLE ENERGY	89	18-26	2016	3.404

Olga K, Vladimir B, Victoria T, Irinia P, Sergey K, Sivashanmugam P, Anandan S	Impact of acoustic cavitation on food emulstion	ULTRASONICS SONOCHEMISTRY	30	98-102	2016	4.556
Rahul Reddy D,Dinesh GK, Anandan S, Sivasankar T	Sonophotocatalytic treatment of Naphthol Blue Black dye and real textile wastewater using synthesized novel Fe doped TiO2	CHEMICAL ENGINEERING & PROCESSING: PROCESS INTENSIFICATION	99	Oct-18	2016	2.154
Sathishkumar P, Mangalaraja RV, Rozas O, Vergara C, Mansilla HD, Gracia-Pinilla MA, Anandan S	Sonophotocatalytic mineralization of Norflurazon in aqueous environment	CHEMOSPHERE	146	216-225	2016	3.698
Manohar S, Asiri AM, Anandan S	Impact of anchoring groups for improving the binding nature of organic dyes towards dye sensitized solar cells	SOLAR ENERGY	126	22-31	2016	3.685
Naveenraj S, Mangalaraja RV, Wu JJ, Asiri AM, Anandan S	Insights into the binding of photothermal therapeutic agent bismuth sulfide nanorods with human serum albumin	RSC ADVANCES	6	16215-16222	2016	3.289
Dinesh GK, Anandan S, Sivasankar T	Synthesis of Fe-doped Bi2O3 nanocatalyst and its sonophotocatalytic activity on synthetic dye and real textile wastewater	ENVIRONMENT SCIENCE POLLUTION RESEARCH	xx	xxx-xxx	2016	2.76
Dinesh GK, Anandan S, Sivasankar T	Synthesis of Fe/ZnO composite nanocatalyst and its sonophotocatalytic activity on Acid Yellow 23 dye and real textile effluent	CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY	xx	xxx-xxx	2016	3.18
Selvamani T, Gnana Sundara Raj B, Anandan S, Wu JJ, Ashokkumar M	Synthesis of Morphology-Controlled Bismutite for Selective Applications	PHYS. CHEM. CHEM PHYS.	18	7768-7779	2016	4.449
Martha Ramesh,	Fabrication,	MATERIALS	172	85-89	2	2.437

Nagaraja HS, Martha Purnachander Rao, Anandan S, Huang NM	characterization and catalytic activity of α-MnO2 nanowires for dye degradation of reactive black 5	LETTERS			2016	
Gnana Sundara Raj B, Wu JJ, Asiri AM, Anandan S	Hybrid SnO2-Co3O4 nanocubes prepared via CoSn(OH)6 intermediate through sonochemical route for Energy Storage Applications	RSC ADVANCES	6	33361-33368	2016	3.289
Kathiravan A, Venkatesan S, Murugesan P, Madhavan J, Pavithra N, Anandan S	Unravelling the role of anchoring groups on the ground and excited states of Pyrene by computational and spectroscopic methods	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	18	13332-13345	2016	4.449
Kaviyarasan K, Anandan S, Mangalaraja RV, Asiri AM, Wu JJ	Chemiluminescence studies between aqueous phase synthesized mercaptosuccinic acid capped cadmium telluride quantum dots and luminol-H2O2	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	165	138-144	2016	3.289
Vinoth V, Wu JJ, Anandan S	Sensitive electrochemical determination of dopamine and uric acid using AuNPs(EDAS)-rGO nanocomposites	ANALYTICAL METHODS	8	4379-4390	2016	1.915
Pavithra N, Anandan S	Silicotungustic Acid Incorporated Gel Polymer Electrolyte as Efficient Redox Mediator for Dye Sensitized Solar Cells	DYES AND PIGMENTS	133	222-231	2016	4.055
Ramamoorthy R, Radha N, Maheswari G, Anandan S, Manohar S, Victor Williams R	Betalain and anthocyanin dye-sensitized solar cells	JOURNAL OF APPLIED ELECTROCHEMISTRY	46	929-941	2016	2.223
Arulmani S, Krishnamoorthy S, Wu JJ,	High-Performance Electrocatalytic Activity of Palladium-Copper	ELECTROANALYSIS	29	433-440	201	2.471

Anandan S	Nanoalloy towards Methanol Electro-oxidation in an Alkaline Medium				6	
Jeganathan C, Pavithra N, Sabari Girisun C, Anandan S, Ashokkumar M	Enhanced photocurrent generation in bacteriorhodopsin based bio-sensitized solar cells using gel electrolyte	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY	162	208-212	2016	3.035
Saritha G, Wu JJ, Anandan S	Modified Pyrene based organic sensitizers with thiophene-2-acetonitrile as π-spacer for dye sensitized solar cell applications	ORGANIC ELECTRONICS	37	326-335	2016	3.471
Gnana Sundara Raj B, Ramprasad RR, Asiri AM, Wu JJ, Anandan S	Ultrasound assisted synthesis of Mn3O4 nanoparticles anchored graphene nanosheets for supercapacitor applications	ELECTROCHIMICA ACTA	156	127-137	2015	4.803
Selvamani T, Manjula CA, Anandan S, Asiri AM, Ashokkumar M	Preparation of CuO Mesocrystals via Antlerite Intermediate for photocatalytic applications	CRYSTAL RESEARCH TECHNOLOGY	50	143-149	2015	0.908
Vinoth V, Wu JJ, Asiri AM, Anandan S	Simultaneous Detection of Dopamine and Ascorbic Acid Using Silicate Network Interlinked Gold Nanoparticles and Multi-Walled Carbon Nanotubes	SENSORS & ACUTATORS B	210	731-741	2015	4.758
Babu DD, Saritha Reddy G, Anandan S, Adhikari	New D-π-A type indole based chromogens for DSSC: Design, synthesis and performance studies	DYES & PIGMENTS	112	183-191	2015	4.055
Vinoth S, Manoharan S, Sharafali A, Anandan S, Murugan R	Green grasses as light harvesters in dye sensitized solar cells	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	135	947-952	2015	2.653
Dayamani A, Muthusamy S, Anandan S, Subrahmanyam Ch	C and N doped nano sized TiO2 for visible light photocatalytic degradation of aqueous pollutants	JOURNAL OF EXPERIMENTAL NANOSCIENCE	10	115-125	2015	0.832

Dinesh GK, Anandan S, Sivasankar T	Sonophotocatalytic treatment of Bismarck Brown G dye and real textile effluent using synthesized novel Fe(0) doped TiO2 catalyst	RSC ADVANCES	5	10440-10451	2015	3.289
Naveenraj S, Lee GJ, Anandan S, Wu JJ	Nanosized Tantala based Materials - Synthesis and Applications	MATERIALS RESEARCH BULLETIN	67	20-46	2015	2.435
Anandan S, Wu JJ	Effective Degradation of Fipronil Using Combined Catalytic Ozonation Processes	OZONE SCIENCE & ENGINEERING	37	186-190	2015	0.853
Gnana Sundara Raj B, Asiri AM, Wu JJ, Anandan S	Synthesis of Mn3O4 Nanoparticles via Chemical Precipitation Approach for Supercapacitor Application	JOURNAL OF ALLOYS & COMPOUNDS	636	234-240	2015	3.014
Gachumale Saritha Reddy, Sekar Ramkumar, Asiri AM, Anandan S	Bi-anchoring organic sensitizers of type D-(π-A)2 comprising thiophene-2-acetonitrile as π-spacer and malonic acid as electron acceptor for dye sensitized solar cell applications	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	145	531-539	2015	2.653
Pavithra N, Asiri AM, Anandan S	Fabrication of Dye Sensitized Solar Cell using Gel Polymer Electrolytes consisting Poly(EthyleneOxide)-Acetamide Composite	JOURNAL OF POWER SOURCES	286	346-353	2015	6.333
Anandan S, Villarreal TL, Wu JJ	Sonochemically Synthesized Engineering Mesoporous NiTiO3 Ilmenite Nanorods for the Catalytic Degradation of Tergitol in Water	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	54	2983-2990	2015	2.567
Díez-García MI, Manzi-Orezzoli V, Jankulovska M, Anandan S, Bonete P, Gomez R, Villarreal TL	Effects of Ultrasound Irradiation on the Synthesis of Metal Oxide Nanostructures	PHYSICS PROCEDIA	63	85-90	2015	---

Anandan S, Manivel A, Asiri AM, Wu JJ	Study of electropolymerization of Cobalto(5,10,15-Tris(4-aminophenyl)-20-phenylporphyrin) for electrochemical detection of antioxidant-antipyrine	JOURNAL OF PORPHYRINS & PHTHALOCYANINES	19	01-Jul	2015	1.087
Sivakumar R, Anandan S	Functional Nanocomposite Polymers	ENCYCLOPEDIA OF BIOMEDICAL POLYMERS AND POLYMERIC MATERIALS	7	5123-5135	2015	--
Martha Purnachander Rao, Anandan S, Suresh S, Asiri AM, Wu JJ	Surfactant assisted synthesis of copper oxide nanoparticles for photocatalytic degradation of methylene blue in the presence of visible light	ENERGY & ENVIRONMENT FOCUS	4	250-255	2015	2.321
Gachumale Saritha Reddy, Anandan S	Fabrication of dye sensitized solar cells with different anchoring mode based triphenylamine dyes	APPLIED SOLAR ENERGY	51	120-128	2015	---
Rokesh K, Anandan S, Jothivenkatachalam K	Polymer Electrolytes in Dye Sensitized Solar cells	MATERIAL FOCUS	4	262-271	2015	---
Mary Rosana NT, JoshuaAmarnath D, Anandan S, Saritha G	Environmental Friendly Photosensitizing Materials for Harvesting Solar Energy	JOURNAL OF MATERIALS ENVIRONMENTAL SCIENCE	6	2053-2059	2015	--
Kathiravan A, Venkatesan S, Murugesan P, Madhavan J, Pavithra N, Anandan S	A Diminutive Modification in Arylamine Electron Donors: Synthesis, Photophysics and Solvatochromic Analysis - Towards the Understanding of Dye Sensitized Solar Cell Performances	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	17	28647-28657	2015	1.183
Anandan S, Wu JJ, Ashokkumar M	Sonochemical Synthesis of Layered Copper Hydroxy Nitrate Nanosheets	CHEMPHYSCHEM	6	3389-3391	2015	3.138

Ashokkumar M, Anandan S	Comment on "Shining Light on Nanochemistry Using Silver Nanoparticle-Enhanced Luminol Chemiluminescence"	JOURNAL OF CHEMICAL EDUCATION	92	1778-1778	2015	1.225
Kurukutla AB, Sathishkumar P, Anandan S, Sivasankar T	Intensification of Sonochemical Degradation of Rhodamine B using oxidants, hydrogen peroxide/peroxydisulphate /peroxymonosulphate with Fe2+ ion: proposed pathway and Kinetic	ENVIRONMENTAL ENGINEERING SCIENCE	32	129-140	2015	1.125
V.N. Khmelev, S.S. Khmelev, R.N. Golykh, G.A. Bobrova, O.N. Krasulja, V.I. Bogush, Anandan S	Experimental determining of conditions of ultrasonic influence for providing maximum cavitation intensity in medium	SOUTH SIBERIAN RESEARCH BULLETIN	4	50-55	2015	---
Ramkumar S, Upul Wijayantha KG, Velayutham D, Anandan S	Synthesis of 1, 3-dihexyl-2-(phenylthio)-1H-benzo[d]imidazol-3-ium iodide-A new ionic liquid for dye sensitized solar cell applications	JOURNAL OF MOLECULAR LIQUIDS	193	185-188	2014	2.74
Anandan S, Asiri AM, Ashokkumar M	Ultrasound Assisted Synthesis of Sn Nanoparticles-Stabilized Reduced Graphene Oxide	ULTRASONICS SONOCHEMISTRY	21	920-923	2014	4.556
Manivel A, Ramkumar S, Wu JJ, Asiri AM, Anandan S	Exploration of (S)-4,5,6,7-Tetrahydrobenzo[d]thiazole-2,6-diamine as Feasible Corrosion Inhibitor for Mild Steel in Acidic Media	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	2	463-470	2014	7.49
Asiri AM, Al-Amoudi MS, Bazaid SA, Adam AA, Alamry KA, Anandan S	Enhanced Visible Light Photodegradation of Water Pollutants over N-, S-doped Titanium dioxide and n-Titanium dioxide in the presence of Inorganic Anions	JOURNAL OF SAUDI CHEMICAL SOCIETY	18	155-163	2014	1.978
Pugazhenthiran	Photocatalytic degradation	CHEMICAL	241	401-409	2	5.310

N, Murugesan S, Sathishkumar P, Anandan S	of ceftiofur sodium in the presence of gold nanoparticles loaded TiO2 under UV-visible light	ENGINEERING JOURNAL			0 1 4	
Manohar S, Anandan S	Cyanovinyl substituted benzimidazole based (D-p-A) organic dyes for fabrication of Dye Sensitized Solar Cells	DYES & PIGMENTS	105	223-231	2 0 1 4	4.055
Anandan S, Wu JJ	Ultrasound Assisted Synthesis of TiO2-WO3 Heterostructures for the Catalytic Degradation of Tergitol (NP-9) in Water	ULTRASONICS SONOCHEMISTRY	21	1284-1288	2 0 1 4	4.556
Sathishkumar P, Mangalaraja R V, Rozaz O, Mansilla H D, Gracia-Pinilla M A, Anandan S	Low frequency ultrasound (42 kHz) assisted degradation of Acid Blue 113 in the presence of visible light driven rare earth nanoclusters loaded TiO2 nanophotocatalysts	ULTRASONICS SONOCHEMISTRY	21	1675-1681	2 0 1 4	4.556
Lee GJ, Anandan S, Masten, SJ, Wu JJ	Sonochemical Synthesis of Hollow Copper Doped Zinc Sulfide Nanostructures - Optical and Catalytic Properties for Visible Light Assisted Photosplitting of Water	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	53	8766-8772	2 0 1 4	2.567
Mary Rosana NT, JoshuaAmarnath D, Vincent Joseph KL, Suresh A, Anandan S, Saritha	Natural Sensitizers for Dye Sensitized Solar Cell Applications	INTERNATIONAL JOURNAL OF SCIENTIFIC & ENGINEERING RESEARCH	5	340-344	2 0 1 4	---
Mary Rosana NT, JoshuaAmarnath D, Vincent Joseph KL, Anandan S,	Mixed Dye from Nerium Oleander and Hibiscus Flowers as a photosensitizer in Dye Sensitized Solar Cells	INTERNATIONAL JOURNAL OF CHEMTECH RESEARCH	6	5022-5026	2 0 1 4	---
Gnana Sundara Raj B, Asiri AM, Qusti AH, Wu JJ, Anandan S	Sonochemically synthesized MnO2 nanoparticles as electrode material for	ULTRASONICS SONOCHEMISTRY	21	1933-1938	2 0 1 4	4.556

	supercapacitors					
Anandan S, Wu JJ	Sonochemical synthesis of carbon supported Sn nanoparticles and its electrochemical application	ULTRASONICS SONOCHEMISTRY	21	1954-1957	2014	4.556
Anandan S, Sivasankar T, Villarreal TL	Synthesis of TiO2/WO3 nanoparticles via sonochemical approach for the Photocatalytic Degradation of Methylene Blue under Visible Light Illumination	ULTRASONICS SONOCHEMISTRY	21	1964-1968	2014	4.556
Sathishkumar P, Mangalaraja R V, Mansilla H D, Gracia-Pinilla M A, Anandan S	Sonophotocatalytic (42 kHz) degradation of Simazine in the presence of Au-TiO2 nanocatalysts	APPLIED CATALYSIS B-ENVIRONMENTAL	160-161	692-700	2014	8.328
Manivel A, Asiri AM, Alamry KA, Villarreal TL, Anandan S	Interfacially synthesized PAni-PMo12 hybrid material for supercapacitor applications	BULLETIN OF MATERIALS SCIENCE	37	861-869	2014	0.895
Sathishkumar P, Mangalaraja R V, Rozaz O, Mansilla H D, Gracia-Pinilla M A, Melendrez MF, Anandan S	Sonophotocatalytic degradation of Acid Blue 113 in the presence of Rare Earth nanoclusters loaded TiO2 nanophotocatalysts	SEPARATION AND PURIFICATION TECHNOLOGY	133	407-414	2014	3.299
Anandan S, Chen CY, Wu JJ	Sonochemical Synthesis and Characterization of Turbostratic MnNi(OH)2 Layered Double Hydroxide Nanoparticles for Supercapacitor Applications	RSC ADVANCES	4	55519-55523	2014	3.289
Anandan S, Pugazhenthiran N, Lee GJ, Wu JJ	Photocatalytic degradation of Ceftiofur Sodium using Au loaded Bi2CuO4 nanoparticles	JOURNAL OF MOLECULAR CATALYSIS A:CHEMICAL	379	112-116	2013	3.958
Rubyraj M, Ramkumar S, Anandan S	Photovoltaic Studies of Perylene diimide-based copolymers containing electronic Push-Pull	RSC ADVANCES	3	5108-5120	2013	3.289

	Chromophores					
Sathishkumar P, Mangalaraja R V, Anandan S, Ashokkumar M	Photocatalytic degradation of ternary dye mixture in aqueous environment using gold nanoparticles loaded amino and mercapto functionalized TiMCM-41 nanocatalysts in the presence of visible light	SEPARATION AND PURIFICATION TECHNOLOGY	102	67-74	2013	3.299
Vinoth S, Manoharan S, Anandan S, Murugan R	Performance of dye-sensitized solar cells fabricated with extracts from fruits of ivy gourd and flowers of red frangipani as sensitizers	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	104	35-40	2013	2.653
Naveenraj S, Anandan S	Binding of Serum Albumins with Bioactive Substances - Nanoparticles to Drugs	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY C-REVIEW	14	53-71	2013	12.162
Naveenraj S, Anandan S, Velmathi S, Asiri AM, Ashokkumar M	Tuning of Chalcogenide Nanoparticles Fluorescence by Schiff bases	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY-A CHEMISTRY	254	Dec-19	2013	2.477
Selvamani T, Anandan S	Current Perspective of Semiconductor and its Composites with unusual surfaces for the use of Photocatalysis	MATERIAL SCIENCE FORUM	734	138-185	2013	---
Rubyraj M, Anandan S, Zhou M, Ashokkumar M	Facile one-step synthesis of hollow polydiphenylamine	INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS	62	23-27	2013	---
Sathishkumar P, Mangalaraja R V, Anandan S, Ashokkumar M	CoFe2O4/TiO2 nanocatalysts for the photocatalytic degradation of Reactive Red 120 in aqueous solutions in the presence and absence of electron acceptors	CHEMICAL ENGINEERING JOURNAL	220	302-310	2013	5.310
Ramkumar S, Anandan S	Synthesis of bianchored metal free organic dyes for	DYES & PIGMENTS	97	397-404	20	4.055

	dye sensitized solar cells				13	
Sathishkumar P, Pugazhenthiran N, Mangalaraja R V, Asiri AM, Anandan S	ZnO supported CoFe2O4 nanophotocatalysts for the mineralization of Direct Blue 71 in aqueous environments	JOURNAL OF HAZARDOUS MATERIALS	252-253	171-179	2013	4.836
Pugazhenthiran, N, Sathishkumar P, Maruthamuthu P, Anandan S	HPA immobilized on the functionalized Ti-MCM-41 nanochannels for photocatalytic degradation of ternary azo dye effluents	JOURNAL OF POROUS MATERIALS	20	489-499	2013	1.385
Naveenraj S, Asiri AM, Anandan S	Interaction between Serum Albumins and Sonochemically Synthesized Cadmium Sulfide Nanoparticles: A Spectroscopic Study	JOURNAL OF NANOPARTICLE RESEARCH	15	1671-1679	2013	2.101
Manohar S, Ramkumar S, Elumalai P, Anandan S	One-pot synthesis of metal free organic dyes containing different acceptor moieties for fabrication of dye sensitized solar cells	TETRAHEDRON LETTERS	54	3132-3136	2013	2.347
Rubyraj M, Anandan S, Soloman RV, Venuvanalingam P, Iyer SSK, Ashokkumar	Conjugated Polymer Based on Oligobenzo[c]thiophene with Low-Lying HOMO Energy Level as Potential Donor for Bulk Heterojunction Solar Cells	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY	262	34-44	2013	2.477
Sandhyarani M, Ramesh Babu N, Venkateswarlu K, Ravisankar KV, Ashok M, Anandan S	Photocatalytic and Antibacterial Activity of Titanium, Fluorine and Silver Co-substituted Hydroxyapatitie	INTERNATIONAL JOURNAL OF MODERN PHYSICS	22	268-277	2013	1.963
Vijayaraj A, Prabu R, Suresh R, Manoharan S, Anandan S, Narayanan V	Spectral, electrochemical, luminescence and dye sensitized solar cell studies of mono and d-f hetero binuclear cryptates	TURKISH JOURNAL OF CHEMISTRY	13	344-357	2013	1.098
Anandan S, Gnana Sundara	Sonochemical Synthesis of Manganese (II) Hydroxide	MATERIALS RESEARCH	48	3357-3361	20	2.435

Raj B, Lee GJ, Wu JJ	for Supercapacitor Applications	BULLETIN			13	
Naveenraj S, Soloman RV, Venuvanalingam P, Asiri AM, Anandan S	Interaction between toxic azo dye C. I. Acid Red 88 and Serum Albumins	JOURNAL OF LUMINESCENCE	143	715-722	2013	2.693
Paramasivaganesh K, Srinivasan K, Manivel A, Anandan S, Sivakumar K, Radhakrishnan S, Stalin T	Studies on Inclusion Complexation Between 4,4'-dihydroxybiphenyl and b-cyclodextrin by Experimental and Theoretical Approach	JOURNAL OF MOLECULAR STRUCTURE	1049	399-409	2013	1.78
Anandan S, Pugazhenthiran N, Villarreal TL, Lee GJ, Wu	Catalytic Degradation of a Plasticizer, Di-ethylhexyl phthalate, Using Nx-TiO2-x Nanoparticles Synthesized via Co-precipitation	CHEMICAL ENGINEERING JOURNAL	231	182-189	2013	5.31
Rubyraj M, Anandan S	Donor Conjugated Polymers-based on Alkyl chain Substituted Oligobenzo[c]thiophene derivativs with Well-balanced Energy Levels for Bulk Heterojunction Solar Cells	RSC ADVANCES	3	14595-14608	2013	3.289
Selvamani T, Asiri AM, Al-Youbi AO, Anandan S	Emergent Synthesis of Bismuth Subcarbonate Nanomaterials with Various Morphologies towards Photocatalytic Activities – An Overview	MATERIAL SCIENCE FORUM	745	169-193	2013	---
Ramkumar S, Anandan S	Bibridged bianchoring metal free dyes based on Phenoxazine and Triphenyl amine as donors for dye sensitized solar cell applications	RSC ADVANCES	3	21535-21543	2013	3.289
Pugazhenthiran N, Murugesan S, Anandan S	High Surface area Ag-TiO2 nanotubes for Solar/Visible-light Photocatalytic Degradation	JOURNAL OF HAZARDOUS MATERIALS	263	541-549	2013	4.836

	of Ceftiofur Sodium					
Anandan S, Manivel A, Ashokkumar M	One-step sonochemical synthesis of reduced graphene oxide/Pt/Sn hybrid materials and their electrochemical properties	FUEL CELLS	12	956-962	2012	1.769
Anandan S, Pugazhenthiran N, Selvamani T, Hsieh SH, Wu JJ	Investigation on photocatalytic potential of Au-Ta2O5 semiconductor nanoparticle by degrading methyl orange in aqueous solution by illuminating with visible light	CATALYSIS SCIENCE & TECHNOLOGY	2	2502-2507	2012	5.287
Anandan S, Lee GJ, Wu JJ	Sonochemical synthesis of CuO Nanostructures with different morphology	ULTRASONICS SONOCHEMISTRY	19	682-686	2012	4.556
Anandan S	The contribution of nanotechnology for removal of water pollutants	MATERIAL SCIENCE FORUM	712	1-24	2012	---
Chen PK, Lee GJ, Anandan S, Wu JJ	Synthesis of ZnO and Au Tethered ZnO Pyramid-like Microflower for Photocatalytic Degradation of Orange II	MATERIALS SCIENCE AND ENGINEERING B	177	190-196	2012	2.331
Manivel A, Anandan S	Spectral interaction between silica coated silver nanoparticles and serum albumins	COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS	395	38-45	2012	2.760
Naveenraj S, Rubyraj M, Anandan S	Binding interaction between serum albumins and Perylene-3,4,9,10-tetracarboxylate- A spectroscopic investigation	DYES & PIGMENTS	93	330-337	2012	4.055
Anandan S, Lee GJ, Yang CK, Ashokumar M, Wu JJ	Sonochemical synthesis of Bi2CuO4 Nanoparticles for catalytic degradation of Nonylphenol Ethoxylate	CHEMICAL ENGINEERING JOURNAL	182	46-52	2012	5.310
Manivel A, Sivakumar R,	Ultrasound assisted synthesis of hybrid	ELECTROCATALYS	3	22-29	20	2.347

Anandan S, Ashokkumar M	phosphomolybdate-polybenzidine containing silver nanoparticles for electrocatalytic detection of chlorate, bromate and iodate ions in aqueous solutions	IS			12	
Saharan V, Pandit AB, Sathishkumar P, Anandan S	Hydrodynamic Cavitation as an Advanced Oxidation Technique for the Degradation of Acid Red 88 dye	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	51	1981-1989	2012	2.567
Velmathi S, Reena V, Suganya S, Anandan S	Pyrrole based Schiff Bases as Colorimetric and Fluorescent Chemosensors for Fluoride and Hydroxide Anions	JOURNAL OF FLOURESCENCE	22	155-162	2012	1.601
Ramkumar S, Manoharan S, Anandan S	Synthesis of D-(p-A)2 organic chromophores for dye-sensitized solar cells	DYES & PIGMENTS	94	503-511	2012	4.055
Rubyraj M, Arun K, Ashokkumar M, Anandan S	Ultrasound-assisted Ullmann reaction of alkyl and aromatic amines with substituted benzoic acids using copper catalyst	ORGANIC PREPARATIONS & PROCEDURES INTERNATIONAL	44	271-280	2012	1.75
Sivakumar R, Anandan S	Preparation of Jeffamine based quarternary ammonium iodide melt for dye-sensitized solar cells	JOURNAL OF MOLECULAR LIQUIDS	172	08-Nov	2012	2.74
Rubyraj M, Anandan S, Soloman RV, Venuvanalingam P, Iyer SSK, Ashokkumar M	Synthesis of Perylene bisimide based acceptor conjugated polymer for photovoltaic applications	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY	247	52-62	2012	2.477
Anandan S, Lee GJ, Chen PK, Ashokkumar M, Wu JJ	Amorphous Titania coated magnetite spherical nanoparticles: Sonochemical synthesis and catalytic degradation of Nonylphenol ethoxylate	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	50	7874-7881	2011	2.567
Sivakumar R,	Interactions of serum	JOURNAL OF	131	2195-2201	2	2.693

Naveenraj S, Anandan S	albumins with anti tumor agent Benzo [a] Phenazine – A spectroscopic study	LUMINESCENCE			2011	
Sathishkumar P, Sweena R, Wu JJ, Anandan S	Synthesis of CuO-ZnO nanophotocatalyst for visible light assisted degradation of a textile dye in aqueous solution	CHEMICAL ENGINEERING JOURNAL	171	136-140	2011	5.310
Ramkumar S, Marutheeswaran S, Marcelis, ATM, Anandan S	S-arylation of Mercaptobenzimidazoles using Cu(I) catalysts - Experimental and Theoretical observations	TETRAHEDRON LETTERS	52	3347-3352	2011	2.347
Pugazhenthiran N, Sathishkumar P, Murugesan S, Anandan S	Effective degradation of acid orange 10 by catalytic ozonation in presence of Au-Bi2O3 nanoparticles	CHEMICAL ENGINEERING JOURNAL	168	1227 -1233	2011	5.310
Suganya S, Velmathi S, Sivakumar R, Anandan S	Selective binding of Cu (II) ion by salicylaldimine based Schiff base chromogenic receptors	SENSORS LETTERS	9	570-576	2011	---
Manivel A, Anandan S	Silver nanoparticles embedded phosphomolybdate-polyaniline hybrid electrode for electrocatalytic reduction of H2O2	JOURNAL OF SOLID STATE ELECTROCHEMISTRY	15	153-160	2011	2.327
Sathishkumar P, Anandan S, et al.	Synthesis of Fe3+ doped TiO2 photocatalysts for the visible light assisted degradation of an azo dye	COLLOIDS & SURFACES A	375	231-236	2011	2.760
Anandan S, Lee GJ, Chen PK, et al.	Removal of Orange II Dye in Water by Visible Light Assisted Photocatalytic Ozonation Using Bi2O3 and Au/Bi2O3 Nanorods	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	49	9729-9737	2010	2.587
Manivel A, Naveenraj S, Sathish Kumar P, Anandan S	Cu-TiO2 Nanocatalyst for UV-photodegradation of Acid Red 88 in aqueous solution	SCIENCE OF ADVANCED MATERIALS	2	51-57	2010	1.812
Pugazhenthiran N, Ramkumar S,	In-situ preparation of heteropolytungstic acid on	MICROPOROUS AND	131	170-176	20	3.349

Kumar PS, et al.	TiMCM-41 nanoporous framework for photocatalytic degradation of textile dye methyl orange	MESOPOROUS MATERIALS			10	
Madhavan J, Kumar PSS, Anandan S, et al.	Sonophotocatalytic degradation of monocrotophos using TiO2 and Fe3+	JOURNAL OF HAZARDOUS MATERIALS	177	944-949	2010	4.836
Sivakumar R, Reena V, Ananthi N, et al.	Colorimetric and fluorescence sensing of fluoride anions with potential salicylaldimine based schiff base receptors	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	75	1146-1151	2010	2.653
Kumar PSS, Manivel A, Anandan S, et al.	Sonochemical synthesis and characterization of gold-ruthenium bimetallic nanoparticles	COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS	356	140-144	2010	2.76
Madhavan J, Kumar PSS, Anandan S, et al.	Degradation of acid red 88 by the combination of sonolysis and photocatalysis	SEPARATION AND PURIFICATION TECHNOLOGY	74	336-341	2010	3.299
Kumar PSS, Raj MR, Anandan S	Nanoporous Au-TiMCM-41-An inorganic hybrid photocatalyst toward visible photooxidation of methyl orange	SOLAR ENERGY MATERIALS AND SOLAR CELLS	94	1783-1789	2010	4.732
Madhavan J, Kumar PSS, Anandan S, et al.	Ultrasound assisted photocatalytic degradation of diclofenac in an aqueous environment	CHEMOSPHERE	80	747-752	2010	3.698
Naveenraj S, Anandan S, Kathiravan A, et al.	The interaction of sonochemically synthesized gold nanoparticles with serum albumins	JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS	53	804-810	2010	3.169
Kathiravan A, Renganathan R, Anandan S	Electron transfer dynamics from the singlet and triplet excited states of meso-tetrakis(p-carboxyphenyl)porphyrin	JOURNAL OF COLLOID AND INTERFACE SCIENCE	348	642-648	2010	3.782

	into colloidal TiO2 and AuTiO2 nanoparticles					
Anandan S, Oh SD, Yoon M, et al.	Photoluminescence properties of sonochemically synthesized gold nanoparticles for DNA biosensing	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	76	191-196	2010	2.653
Sivakumar R, Akila K, Anandan S	New type of inorganic-organic hybrid (heteropolytungsticacid-polyepichlorohydrin) polymer electrolyte with TiO2 nanofiller for solid state dye sensitized solar cells	CURRENT APPLIED PHYSICS	10	1255-1260	2010	2.144
Sivakumar, R; Marcelis, ATM; Anandan, S	Synthesis and characterization of novel heteroleptic ruthenium sensitizer for nanocrystalline dye-sensitized solar cells	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY	208	154-158	2009	2.477
Anandan S, Wu JJ	Microwave assisted rapid synthesis of Bi2O3 short nanorods	MATERIALS LETTERS	63	2387-2389	2009	2.437
Pugazhenthiran N, Anandan S, Kathiravan G, et al.	Microbial synthesis of silver nanoparticles by Bacillus sp.	JOURNAL OF NANOPARTICLE RESEARCH	11	1811-1815	2009	2.101
Kumar PSS, Raj MR, Anandan S, et al.	Visible light assisted photocatalytic degradation of acid red 88 using Au-ZnO nanophotocatalysts	WATER SCIENCE AND TECHNOLOGY	60	1589-1596	2009	1.064
Pandiyarajan T, Karthikeyan B, Venkatesan P, et al.	Simple synthesis and spectroscopic studies on cobalt added ZnO nanocrystals	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	74	84-86	2009	2.653
Kumar PSS, Manivel A, Anandan S	Synthesis of Ag-ZnO nanoparticles for enhanced photocatalytic degradation of acid red 88 in aqueous environment	WATER SCIENCE AND TECHNOLOGY	59	1423-1430	2009	1.064

Anandan S, Sivakumar R	Effect of loaded TiO2 nanofiller on heteropolyacid-impregnated PVDF polymer electrolyte for the performance of dye-sensitized solar cells	PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS	206	343-350	2009	2.578
Kathiravan A, Renganathan R, Anandan S	Interaction of colloidal AgTiO2 nanoparticles with bovine serum albumin	POLYHEDRON	28	157-161	2009	2.108
Anandan S, Ashokkumar M	Sonochemical synthesis of Au-TiO2 nanoparticles for the sonophotocatalytic degradation of organic pollutants in aqueous environment	ULTRASONICS SONOCHEMISTRY	16	316-320	2009	4.556
Kathiravan A, Anandan S, Renganathan R	Interaction of colloidal TiO2 with human serum albumin: A fluorescence quenching study	COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS	133	91-95	2009	2.760
Kathiravan A, Kumar PS, Renganathan R, et al.	Photoinduced electron transfer reactions between meso-tetrakis(4-sulfonatophenyl)porphyrin and colloidal metal-semiconductor nanoparticles	COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS	333	175-181	2009	2.760
Madhavan J, Murugesan S, Maruthamuthu P, Anandan S	Advanced Oxidation Process-Photocatalyzed degradation of a textile dye using titanium dioxide	ENVIRONMENTAL SCIENCE – AN INDIAN JOURNAL	3	80-83	2008	---
Dhanalakshmi KB, Anandan S, Madhavan J, et al.	Photocatalytic degradation of phenol over TiO2 powder: The influence of peroxomonosulphate and peroxodisulphate on the reaction rate	SOLAR ENERGY MATERIALS AND SOLAR CELLS	92	457-463	2008	4.732
Kumar PSS, Sivakumar R, Anandan S, et al.	Photocatalytic degradation of Acid Red 88 using Au-TiO2 nanoparticles in	WATER RESEARCH	42	4878-4884	2000	5.991

	aqueous solutions				8	
Anandan S, Grieser F, Ashokkumar M	Sonochemical synthesis of Au-Ag core-shell bimetallic nanoparticles	JOURNAL OF PHYSICAL CHEMISTRY C	112	15102-15105	2008	4.509
Madhavan J, Maruthamuthu P, Murugesan S, et al.	Kinetic studies on visible light-assisted degradation of acid red 88 in presence of metal-ion coupled oxone reagent	APPLIED CATALYSIS B-ENVIRONMENTAL	83	Aug-14	2008	8.328
Anandan S, Kumar PS, Pugazhenthiran N, et al.	Effect of loaded silver nanoparticles on TiO2 for photocatalytic degradation of Acid Red 88	SOLAR ENERGY MATERIALS AND SOLAR CELLS	92	929-937	2008	4.732
Anandan S, Sivakumar R, Tharani R	Solid-state dye-sensitized solar cells constructed with an electrochrome impregnated elastomeric electrolyte	SYNTHETIC METALS	158	1067-1071	2008	2.299
Chitradevi R, Anandan S, Maruthamuthu P	Homogeneous catalysis: Kinetics and mechanism of oxidation of Ru(II) sensitizers by inorganic peroxides	REACTION KINETICS AND CATALYSIS LETTERS	93	127-133	2008	1.265
Anandan S	Viologen impregnated PVDF with TiO2 nanofiller as a solid polymer electrolyte for dye-sensitized solar cells	CURRENT APPLIED PHYSICS	8	99-103	2008	2.144
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Anandan, S	A study on ionic conductivity and thermal behavior of Heteropolyacid-impregnated PVDF as a solid polymer electrolyte for dye-sensitized solar cells	MATERIALS SCIENCE – AN INDIAN JOURNAL	3	xx-xx	2007	---

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Anandan S, Yoon M	Photocatalytic degradation of methyl orange using heteropolytungstic acid-encapsulated TiSBA-15	SOLAR ENERGY MATERIALS AND SOLAR CELLS	91	143-147	2007	4.732
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Anandan S, Pitchumani S, Muthuraaman B, et al.	Heteropolyacid-impregnated PVDF as a solid polymer electrolyte for dye-sensitized solar cells	SOLAR ENERGY MATERIALS AND SOLAR CELLS	90	1715-1720	2006	4.732
Kiruthiga K, Aravindan P, Anandan S, et al.	Investigation on the formation and decay of the N,N,N ',N '-tetramethylbenzidine radical cation using various oxidants and reductants by stopped-flow spectrophotometry	RESEARCH ON CHEMICAL INTERMEDIATES	32	115-135	2006	1.833
Anandan S, Okazaki M	Dynamics, flow motion and nanopore effect of	MICROPOROUS AND	87	77-92	20	3.349

	molecules present in the MCM-41 nanopores - An overview	MESOPOROUS MATERIALS			05	
Anandan S, Latha S, Murugesan S, et al.	Synthesis, characterization and fabrication of solar cells making use of [Ru(dcbpy)(tptz)X]X (where X = Cl-, SCN-, CN-) complexes	SOLAR ENERGY	79	440-448	2005	3.685
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Anandan S, Wen XG, Yang SH	Room temperature growth of CuO nanorod arrays on copper and their application as a cathode in dye-sensitized solar cells	MATERIALS CHEMISTRY AND PHYSICS	93	35-40	2005	2.101
Okazaki M, Toriyama K, Anandan S	Dynamics and packing mode of long-chained n-alkane molecules in the nano-channel of MCM-41	CHEMICAL PHYSICS LETTERS	401	363-367	2005	1.86
Anandan, S; Yoon, M	Photocatalytic degradation of Nile red using TiO2-beta cyclodextrin colloids	CATALYSIS COMMUNICATIONS	5	271-275	2004	3.389
Anandan S, Yoon M	Photoinduced electron transfer studies of Nile red in the presence of TiO2 colloidal nanoparticles	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	60	885-888	2004	2.653
Anandan S, Madhavan J, Maruthamuthu P, et al.	Synthesis and characterization of naphthyridine and acridinedione ligands coordinated ruthenium(II) complexes and their applications in dye-	SOLAR ENERGY MATERIALS AND SOLAR CELLS	81	419-428	2004	4.732

	sensitized solar cells					
Anandan S, Yoon M, Park SE	Photocatalytic effects of heteropolytungstic acid - encapsulated TiSBA-15 on decomposition of phenol in water	JOURNAL OF PHOTOSCIENCE	10	2231-236	2003	---
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Anandan S, Yoon M	Photocatalytic activities of the nano-sized TiO2-supported Y-zeolites	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY C-PHOTOCHEMISTRY REVIEWS	4	May-18	2003	12.162
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Anandan S, Latha S, Maruthamuthu P	Syntheses of mixed ligands complexes of Ru(II) with 4,4 '-dicarboxy-2,2 '-bipyridine and substituted pteridinedione and the use of these complexes in electrochemical photovoltaic cells	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-	150	167-175	2002	2.477
Dhanalakshmi KB, Latha S, Anandan S, et al.	Dye sensitized hydrogen evolution from water	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	26	669-674	2001	3.205
Maruthamuthu P, Anandan S	Synthesis, characterization and photoconversion study of [Ru(I)(dcbpy)(terpy)Cl]Cl.3	SOLAR ENERGY MATERIALS AND SOLAR CELLS	59	199-209	1999	4.732

	H(2)O, [Ru(II)(dcbpy)(terpy)SCN]SCN.3H(2)O and [Ru(II)(dcbpy)(terpy)CN]CN.3H(2)O systems					

(B) Conferences/Workshops/Symposia Proceedings

Author (s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
	Design and Synthesis of Organic Polymers-based Solar Cells".			Indo-German Frontiers of Engineering Symposium 2013	International Advanced Research Center for Powder Metallurgy and New Materials (ARCI), Hyderabad, India	2013
	Synthesis of Conjugated PeryleneDiimide-based Copolymer with 5,5'-Bis(4-aminophenyl)-2-2'-bifuryl Moiety as an Active Material for Organic Photovoltaics			INDO-GERMAN Workshop on Advanced Materials for Future Energy Requirements - 2012Conference	Delhi University, India	2012
	Synthesis of Conjugated PeryleneDiimide-based Copolymer with 5,5'-Bis(4-aminophenyl)-2-2'-bifuryl Moiety as an Active Material for Organic Photovoltaics			Solar Fuel 12 Conference	island of Mallorca, Spain,	2012

	Study of Au-TiO_2photocatalysts toward visible photodegradation of Acid Red in the presence of electron acceptors".			17th International Conference on Photochemical Conversion and Storage of Solar Energy	University of Sydney, Australia	2008
	Solid-state dye-sensitized solar cells constructed with an electrochrome impregnated elastomeric electrolyte			17th International Conference on Photochemical Conversion and Storage of Solar Energy	University of Sydney, Australia	2008
	Effect of loaded TiO_2nanofiller on Heteropolyacid impregnated PVDF polymer electrolyte for the performance of dye-sensitized solar cells			International Conference on Advanced Materials & Composites (ICAMC-2007)"	National Institute for Interdisciplinary Science & Technology, Trivandrum, India	2007
	Solar photodegradation of organic pollutants in industrial waste-water using nanocrystalline semiconductor photocatalysts			International Conference on Nanomaterial & its applications" at Trichy, India	National Institute of Technology, Trichy, India	2007
	Heteropolyacid impregnated Polyepichlorohydrine with TiO_2nanofiller as a solid polymer electrolyte for dye-sensitized solar cells			International Conference on Nanomaterial & its applications" at Trichy, India	National Institute of Technology, Trichy, India	2007
	Effects of loaded nano-Ag particles on TiO_2 for photocatalytic degradation of textile dye			International Conference on Nanomaterial & its applications	National Institute of Technology,Trichy,India	2007
	Nanostructured CuO films on Copper: Fabrication and application as a cathode in dye-sensitized TiO_2 solar cells			International Conference on Nanoscience& Nanotechnology	University of Madras,India	2006

	Heteropolytungstic Acid ($H_3PW_{12}O_{40}$) - Encapsulated into the titanium exchanged HY (TiHY) zeolite: A novel photocatalyst for photoreduction of Methyl Orange			Korean Chemical Society - Spring Meeting	Daegu, Korea	2002
	Synthesis of substituted 1,6-naphthyridne and its Ruthenium Complex for utilization in			14th International Conference on Photochemical Conversion and	Sapporo, Japan	2002
	Conversion of visible light into electricity with binuclear Ruthenium complexes adsorbed on Nanocrystalline TiO_2 films			14th International Conference on Photochemical Conversion and Storage of Solar Energy	Sapporo, Japan	2002
	Homogeneous Catalysis: Kinetics and mechanism of oxidation of Ruthenium dye sensitizers by inorganic peroxides			14th International Conference on Photochemical Conversion and Storage of Solar Energy	Sapporo, Japan	2002
	Dye Sensitized Solar cell for the Conversion of visible light into electricity			National Conference on Solar Energy Conversion Processes	University of Madras, India	2001
	Conversion of light to electricity using Ruthenium Polypyridyl complexes as charge transfer sensitizers on nanocrystalline TiO_2 electrodes			National Conference on Solar Energy Conversion Processes	University of Madras, India	2001
	Dye sensitized Hydrogen evolution from water			National Conference on Solar Energy Conversion Processes	University of Madras, India	2001
	Conversion of visible light into electricity using Dye sensitized solar cell			13th International Conference on Photochemical Conversion and	Colorado, USA	2000

				Storage of Solar Energy		
	Preparation of Ruthenium complex and fabrication of solar cells for visible light conversion to electricity			XVIII conference of Indian Council of Chemists	Jalagon	1999
	Dye sensitized Hydrogen evolution from water".			XVIII conference of Indian Council of Chemists	Jalgaon	1999

(C) Books & Monographs (21)

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
S. Anandan	Effects put forth to enhance the efficiency in dye-sensitized nanostructured solar cells – an overview",Applied Physics in the 21st Century	Research Signpost	2008	**978-81-308-0238-1**
S. Anandan, J. Madhavan and M. Ashokkumar	The contribution of the nanotechnology to hydrogen",Nanotechnology for the Energy Challenge	Wiley-VCH, Weinheim	2010	**978-3-527-32401-9**
S. Anandan and M. Ashokkumar	Sonochemical preparation of monometallic, bimetallic and metal-loaded semiconductor nanoparticles",Theoretical and Experimental Inorganic Sonochemistry	Springer	2010	**978-90-481-3886-9**
S. Anandan and M. Ashokkumar	"Sonochemical synthesis of noble mono- and bimetallic nanoparticles for catalytic applications",Cavitation: A Novel Energy Efficient Technique for the Generation of Nanomaterials	Pan Stanford Publishing, Singapore	2014	**978-981-4411-54-7**
S. Naveenraj and **S. Anandan**	"Binding of serum albumins with nanoparticles: A short review",Industrial Biotechnology in Non-aligned and other developing countries-Current status and future prospects	Daya Publishing House (A division of Astral International Pvt. Ltd, New Delhi, India).	2014	**9351302717**

S. Anandan and M. Ashokkumar	Graphene Oxide Nanodisks and Nanodots -An overview",CarbonNanomaterials Source book	Taylor & Francis books.	2015	**978-1-4822-5268-2**
G.K. Dinesh, T.Sivasankar and**S. Anandan**	Metals Oxides and Doped Metal Oxides for Ultrasound and Ultrasound Assisted Advanced Oxidation Processes for the Degradation of Textile Organic Pollutants", Handbook of Ultrasonics andSonochemistry	Springer	2016	**978-981-287-470-2**
P. Sathishkumar, R.V. Mangalaraja and**S. Anandan**	Sonophotocatalytic Mineralization of Environmetnal Contaminants Present in Aqueous Solutions", Handbook of Ultrasonics and Sonochemistry	Springer	2016	**978-981-287-470-2**
N. Pugazhenthiran, **S. Anandan** and M. Ashokkumar	Removal of Heavy Metal from Wastewater: An Alternative Green Sonochemical Process Optimization and Pathway Studies", Handbook of Ultrasonics and Sonochemistry	Springer	2016	**978-981-287-470-2**
S. Anandan, C. Femi Thomas and M. Ashokkumar	Contribution of nanotechnology to hydrogen Production", Nanotechnology for the Energy Challenge	Wiley-VCH, Weinheim	2017	**978-3-527-34014-9**
G. Saritha, **S. Anandan** and M. Ashokkumar	Co-sensitization Strategies for Dye-Sensitized Solar Cells", **Rational Design of Solar Cell Components: Steps Up Toward Efficient Solar Energy Conversion**	Wiley-VCH, Weinheim	2018	**978-1-119-43740-6**
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S. Arulmani, **S. Anandan** and M. Ashokkumar	**Introduction to Advanced Nanomaterials**", **Nanomaterials for Green Energy**	Elsevier	2018	**9780128137314**
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David Contreras and **S. Anandan**				
T. Selvamani, D. Gangadharan and **S. Anandan**	**Synthetic Strategies of Nanobioconjugates for Bioelectrochemical Application**", **Bioelectrochemical Interface Engineering**	Wiley-VCH, Weinheim	2019	**978-1-119-53854-7**
S. Arulmani, A. Sorrentino and **S. Anandan**	**Nano-architectured conducting polymers: Rational design and relative activity for next-generation supercapacitors**", Sustainable Materials for Next Generation Energy Devices	Elsevier	2020	**978-0-12-820628-7**
L. Gurusamy, **S. Anandan** and J.J. Wu	**Nanomaterials derived from metal-organic frameworks for energy storage supercapacitor application**", Metal-organic frameworks for chemical reactions	Elsevier	2021	**978-0-12-822099-3**
T. Selvamani, **S. Anandan**, and M. Ashokkumar	**Graphitic Carbon Nitride for Photocatalytic Hydrogen Production**	Elsevier	2022	**978-0-12-820628-7**
P. Sathishkumar, N. Pugazhenthiran, and **S. Anandan**	Chemical and Biological Remediation Technologies for the Effluents' Mineralization and Toxicological Effects of Nanocatalysts: An Overview", **Organic Pollutants**	Springer	2022	**978-3-030-72440-5**
M. Krishnaveni, **S. Anandan**, B. Alijafari, and M. Ashokkumar	**Nanocarbons (graphene, etc.), MXenes for Energy Storage Applications**", **Smart Supercapacitors**	Elsevier	2022	**In press**
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(D) **Patents (2)**

- P.Maruthamuthu, B. Muthuraaman, S. Ganesan, **S. Anandan**, S. Murugesan, J. Madhavan, and S. Austin Suthanthiraraj, "An Improved Solid-State Polymer Composition, a Process for its Preparation and an Improved Dye-sensitized Solar Cell ", **Approved for Indian Patent**, (Application No.2728/CHE/2007).

- S. P. Sivapirakasan, **S. Anandan**, S. L. Aravind and M. Surianarayanan, "Airbag Gas Generant Composition Comprising Primary fuel, oxidizer and co-oxidizer which is basic metal nitrate nanosheets along with alkali metal nitrate, that react with azide fuel to cause complete combustion without toxic residues", **Filled for Indian Patent**, Patent No. IN201741038676-A.