

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 20 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 lot of **collaborative research projects with University of Melbourne, Australia, University of Alicante, Spain, Feng Chia University, Taiwan, Moscow State University, Russia and CNR Naples, Italy** funded by DST India 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. He created **extra mural research funds more than 12 crores** to the institute by successfully running various DST, CSIR, MOEF projects. He created lot of MOU between various Universities situated at Australia, Taiwan, Moscow. Under his guidance **nine Ph.D. and thirty one M.Sc. students completed their degrees**. In addition, twelve Ph.D. and four 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, biomolecule interactions, sensors, supercapacitors, OLED applications, organic, inorganic & polymer solar cells.

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|-------------------------------------|---|
| 1. Name | Dr. Sambandam Anandan |
| 2. Designation: | Associate 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. |

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7. Employment Profile

Job Title	Employer	From	To
Associate Professor (Rs.9000 AGP)	Department of Chemistry, National Institute of Technology, Trichy 620 015	6 th November 2011 Onwards	---
Associate Professor (Rs.8000 AGP)	Department of Chemistry, National Institute of Technology, Trichy 620 015	6th November 2008	5 th November 2011
Asst. Professor	Department of Chemistry, National Institute of Technology, Trichy 620 015	14 th July 2006	5 th 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
B. Tech Faculty Coordinator	Department of Chemistry, National Institute of Technology, Trichy 620 015	2008, 2012, 2016	

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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	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 25 th 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

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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	25 th May 2016	19 th 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's
B.Tech Chemical Engg.	Physical Chemistry, Organic Chemistry
B.Tech I Year	Chemistry
Ph.D. courses	

(iii) Projects guided at Ph.D. level= 9

- (i) Synthesis of Nanophotocatalysts for the Degradation of Environmental Pollutants (2010) [**Candidate's Name: Dr. P. Sathishkumar**]- Degree Awarded
- (ii) Preparation of novel components for dye sensitized solar cells (2011) [**Candidate's Name: Dr. R. Sivakumar**] – Degree Awarded
- (iii) Hybrid nanomaterials for electrochemical applications (2012) [**Candidate's Name: Dr. A. Manivel**] – Degree Awarded
- (iv) Binding of Serum Albumins to Bioactive substances – Dyes and Nanoparticles (2012) [**Candidate's Name: Dr. S. Naveenraj**] – Degree Awarded
- (v) Design and Synthesis of Organic Polymers-based Solar Cells (2013) [**Candidate's Name: Dr. M. Rubyraraj**] – Degree Awarded
- (vi) Synthesis of Novel Organic Molecules for Dye-sensitized Solar Cell Applications (2014) [**Candidate's Name: Dr. S. Ramkumar**] – Degree Awarded

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- (vii) Exploration of Dye Molecules for Improving the Efficiency of Dye-sensitized Solar Cells (2016) [**Candidate's Name: Mr. S. Manoharan**] – Degree Awarded
- (viii) Nanostructured Metal Oxides for Electrochemical Applications (2016) [**Candidate's Name: Mr. B. Gnana Sundara Raj**] – Degree Awarded
- (ix) Synthesis of Novel Nano-Semiconductor Photocatalyst for Sonophotocatalytic Wastewater Treatment (2016) [**Candidate's Name: Mr. G. Kumaravel Dinesh**] – Thesis Submitted

(iv) Projects guided at Postgraduate level= **31**
Thesis Title:

- Sensitive Detection of Glutathione using Graphene Quantum Dots encapsulated Gold Nanorods - (May 2016)
- Sonochemical synthesis and Characterization of Co_2SnO_4 Nanomaterials for Supercapacitor Applications - (May 2016)
- Ultrasound Assisted Synthesis of $\text{Mn}_3\text{O}_4/\text{SnO}_2$ Nanocomposite for Electrochemical Supercapacitor Applications - (May 2016)
- Synthesis of Novel Visible-Light-Driven Nitrogen Doped KTaO_3 catalyst for Removal of Pollutants - (May 2016)
- Electrocatalytic Activity of Palladium-Copper Nanocatalyst towards Methanol Oxidation - (May 2015)
- Preparation of Stable Oil Milk Emulsion using Ultrasonic Approach - (May 2015)
- Development of Non-Enzymatic Glucose Sensor Based on Flower Shaped Copper Oxide Nanoparticles - (May 2015)
- Synthesis, Characterization and Photocatalytic Applications of Copper Ferrite Nanoparticles - (May 2014)
- Mn_3O_4 Nanoparticles Anchored Graphene Sheets: A High Performance electrode Material for Supercapacitors- (May 2014)
- Synthesis, Structural and Luminescent Properties of Cadmium Telluride Quantum Dots - (May 2014)
- Synthesis and Characterization of Copper Oxide Via Antlerite for Photocatalytic Degradation of Methylene Blue - (May 2013)
- Novel Benzimidazole based Organic Dyes for Dye Sensitized Solar Cells - (May 2013)
- Effect of Nanoseeds on the Synthesis of Gold Nanorods and their Interaction ability with Luminol - (May 2012)
- Synthesis of Organic Chromophores for Fabrication of Dye-sensitized Solar Cells - (May 2012)
- Synthesis of Cyanovinylthiophene Bridged dye for Dye-sensitized Solar Cell Application - (May 2012)
- Synthesis of n-Channel Perylene Bisimide Derivatives for Photovoltaic Applications- (May 2011)
- Synthesis and Characterization of Acid Red-88 Doped Polyaniline - (May 2011)
- Ultrasound-assisted condensation of 2-chlorobenzoic acid with various aromatic amines - (May 2010)

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- Synthesis of substituted Benzimidazole derivatives via Ullmann coupling for OLED applications – (May 2010)
 - Sonochemical synthesis of carbon supported tin nanoparticles for electrochemical applications (March 2010)
 - Synthesis and characterization of Meso-tetraphenylporphyrin derivatives for Sensor applications – (May 2009)
 - Fluorescence quenching studies of CdS nanoparticles – (May 2009)
 - Visible light induced photocatalytic degradation of avid red 88 using modified semiconductors – (May 2008)
 - Photoinduced electron transfer study of Nile red in the presence of Metal-semiconductor nanoparticles – (May 2008)
 - Effect of loaded silver nanoparticles on TiO₂ for photocatalytic degradation of textile dye - (May 2007)
 - Preparation of Hybrid polyaniline electrolytes for dye sensitized solar cells- (May 2007)
 - Benzidine impregnated polyepichlorohydrine with TiO₂ nanofiller as a solid polymer electrolyte for dye sensitized solar cells - (May 2007)
 - Preparation of Hybrid polyorthoanisidine electrolytes for dye sensitized solar cells - (May 2007)
 - Heteropolyacid impregnated polyepichlorohydrine with TiO₂ nanofiller as a solid polymer electrolyte for dye sensitized solar cells - (May 2007)
 - Preparation of Au-TiO₂ nanocatalyst for photodegradation of textile dye - acid red 88 - (May 2007)
 - Preparation of dye sensitized solar cells using multidentate ligands coordinated Ruthenium complex - (May 2007)
- (v) Other contribution(s)
- ✓ Organized “**23rd National level student’s symposium Horizon 2016**” on **Novelistic Nanotechnology-What Chemistry behind it?** in National Institute of Technology, Trichy, India, on 16-17 September, 2016
 - ✓ Organized a Short Term Course sponsored by TEQIP on “Recent Intitatives on Energy & Environmental Research” in National Institute of Technology, Trichy, **India**, during 16th February, 2016.
 - ✓ Organized NIT-Trichy Golden Jubilee year celebration workshop regarding “**Recent Trends in Chemistry**” in National Institute of Technology, Trichy, **India**, on December 4, 2013.
 - ✓ Organized a Short Term Course on “**Integrating Energy and Environmental issues towards Cleaner Environment**” in National Institute of Technology, Trichy, **India**, from December 2-3, 2013.
 - ✓ Organized a Short Term Course on “Ultrasonics and its applications” in National Institute of Technology, Trichy, **India**, from March 22-23, 2013.
 - ✓ Organized a Short Term Course on “Electrochemistry-Energy and Environment applications” in National Institute of Technology, Trichy, **India**, from February 11-12, 2013.
 - ✓ Organized “**National Level Students’ Symposium Horizon 2010**” on

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- 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.
 - ✓ Chaired a session at “National Conference on Materials: Nano to Macro dimensionality and their varied applications” organized by Department of Chemistry, Manonmaniam Sundaranar University, Tirunelveli, India during 28-29 January 2010.
 - ✓ Chaired a session at “National Conference on Recent Trends and Applications of Nanotechnology in Pharmacy and Biology” organized by Department of Pharmaceutical Technology, Anna University, Trichy, India during 21-22 January 2010.
 - ✓ Chaired a session at “International Workshop on Sonochemistry and Photocatalysis for Environmental Remediation” organized by DEST, Australia & DST, India under the Australia-India Strategic Research Program in School of Chemistry, University of Melbourne, Australia, from 26-28 November 2008.
 - ✓ 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.
 - ✓ Chaired a session at “**National Conference on Emerging Materials and Technologies for India – 2020**” organized by Department of Metallurgical and Materials Engineering, National Institute of Technology, Trichy, **India**, from January 24-25, 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.
 - ✓ Organized a “**Training program for PG students for NET Exam**” in National Institute of Technology, Trichy, India, on November 25-29, 2006.

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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 12 th 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 19 th Sep 2007	45 Completed
4	CSIR - INDIA	Synthesis of Gold nanoparticles encapsulated TiMCM-41 for photocatalytic degradation of organic pollutants	File No. 01(7858)/07 dated 1 st 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 15 th 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.16 th 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. 18 th 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
13	INDIA-Russian Research Fund (DST)	Experimental & Theoretical aspects of sonochemical effects in food emulsions	INT/RUS/RFBR/P-209	20.7
14	INDIA-ITALY Research Fund (CSIR-CNR)	Sonochemical Synthesis of Biobased Composite Materials for Energy Stored Applications	22/CNR/Italy/2016 dt.24 th May 2016	6.02 Co-PI

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15. Number of PhDs guided (9) & ongoing (12)

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

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
Oct 2015	Electrochemical Technologies in Hydrogen Production and Utilization for Electrical Energy	National	Participant	IIT Delhi	Delhi

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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	INDO-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 Photochemical Conversion and Storage of Solar Energy	International	Participant & Presented lecture	University of Sydney, Australia	Sydney, 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
Students Symposium	National	Sep	Faculty Co-	NITT

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		2016	ordinator	
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 2008	Faculty Co-ordinator	NITT
National Conference	National	Dec 2007	Convener	NITT
International Workshop	International	Dec 2007	Convener	NITT
International Conference	International	Feb 2007	Convener & Secretary	NITT
Training Programme for students	National	Nov 2006	Convener	NITT
Training Programme 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 TiO ₂ 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

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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	June 5, 2008	Particulate Fluid Processing Centre (PFPC), University of

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Applications		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 Nanosciences & Nanotechnology	March 16, 2009	Department of Mechanical Sciences, ISTE Chapter 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	March 1-3, 2010, entitled	Department of Nanoscience and Technology, Alagappa University, Karaikudi, India

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Applications		
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 cells	June 25, 2010	in Department of Chemistry, Academic Sinica, Taipei, Taiwan
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	1 st October, 2010	Arunai Engineering College, Tiruvannamalai, India
Ultrasonics & Sonochemistry – An Emergent Technology	8 th 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	5 th 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

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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 Nanoparticles	July 29, 2011	Virudhunagar Hindu Nadar's 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 Bioelectronics and Biosensors, Alagappa University, Karaikudi India
Metal-Semiconductor	March 23, 2012	Department of Industrial

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Nanoparticles for Solar Energy Conversion Applications		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	2 nd 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	2 nd 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	20 th March, 2013	Short term Course in New Avenues in Chemical

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		Sciences Research organized by Department of Chemistry
Need of Ultrasound and its Applications	22 nd 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	9 th August, 2013	Rajalakshmi Institutions
Sonochemical Synthesis of Nanoparticles for Electrocatalytic Applications.	1 st October, 2013	Karunya University, Coimbatore
Metal-Semiconductor Nanoparticles for Solar Energy Conversion Applications	13 th November, 2013	Department of Civil Engineering, NIT, Trichy
Sonochemistry-An Emergent Technology	10 th December, 2013	Department of Chemistry, Anna University, Trichy
Metal-Semiconductor Nanoparticles for Solar Energy Conversion Applications	17 th 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 Energy Conversion Applications	January 16, 2014	Department of Environmental Engineering, Anna University, Trichy
Sonochemistry-An Emergent Technology	28 th January, 2014	Department of Chemistry, Seethalakshmi Ramaswami College, Trichy
Preparation of Novel Components for Dye-sensitized Solar Cells	28 th January, 2014	Department of Chemistry, Seethalakshmi Ramaswami College, Trichy
Sonochemistry – An Emergent Technology	5 th February, 2014	UGC-Academic Staff College and Department of Chemistry, Bharathidasan University, Trichy
Effects put forth to enhance	5 th February, 2014	UGC-Academic Staff

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the efficiency in dye-sensitized nanostructured solar cells		College and Department of Chemistry, Bharathidasan University, Trichy
Effects put forth to enhance the efficiency in dye-sensitized nanostructured solar cells".	7 th February 2014	Department of Chemistry, National Engineering College, Kovilpatti
Sonochemistry – An Emergent Technology	4 th March 2014	Department of Chemistry, Saranathan Engineering College, Trichy
Nanostructured solar cells	7 th March 2014,	Department of Electrical Engineering, Vivekanandha College of Engineering for Women, Tiruchengode
Hybrid Nanomaterials for Energy Storage Applications	on 7 th March 2014	Department of Production Engineering, National Institute of Technology, Trichy
Conjugated polymer based on Oligobenzo(c)thiophene and its derivatives as potential donor for Bulk Heterojunction Solar Cells	20-21 March 2014,	Department of Electrical Engineering, Indian Institute of Technology, Kanpur
Nanostructured Solar cells- An overview	23 rd July 2014	Department of Chemistry, Bishop Heber College, Trichy
Nanostructured Solar cells- An overview	24 th 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	25 th November 2014	Department of Chemical Engineering, Coimbatore Institute of Technology, Coimbatore
Nanostructured Solar cells- An overview	16 th December 2014	The Institution of Engineers (INDIA), Trichy
Sonochemistry – An Emergent Technology	28 th January, 2015	UGC-Academic Staff College and Department of Chemistry, Bharathidasan University, Trichy
Nanostructured Solar cells- An overview	28 th January, 2015	UGC-Academic Staff College and Department of Chemistry, Bharathidasan

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		University, Trichy
Nanomaterials - Excitement & Opportunities	5 th February 2015	Department of Chemistry, Cauvery College for Women, Trichy
Nanobiotechnology - Excitement & Opportunities	3 rd March, 2015	UGC-Academic Staff College and Department of Environmental Biotechnology, Bharathidasan University, Trichy
Nanostructured Solar cells- Past & Present	2 nd 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	19 th 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	18 th March 2016	Department of Physics, Bharathidasan University, Trichy, India

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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

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	
Active 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.	

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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	

20. Academic Foreign Visits

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

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Taiwan	23 rd May 2011- 23 rd June 2011	Visiting Professor
Taiwan	7 th June 2010- 7 th July 2010	Visiting Professor
United Kingdom	30 th Sep 2009- 3 rd Oct 2009	Visiting Academic
Taiwan	25 th May 2009- 10 th July 2009	Visiting Professor
Australia	18 th May 2008- 1 st August 2008	Visiting Academic
Korea	20 th Dec 2007 – 2 nd Jan 2008	Visiting Researcher
Australia	29 th Oct 2007- 30 th 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: **178**

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal
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, Kong Y, Liu F, Yu Z, Anandan S	One-step thermal synthesis of Ag modified g-C3N4/N-doped TiO2 hybrids with enhanced visible-light photocatalytic activity	JOURNAL OF MATERIALS SCIENCE	52	1183-1193	2017	2.267
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	xx	xxx-xxx	2017	4.556
Naveenraj S, Mangalaraja RV, Wu JJ, Asiri AM,	Gold Triangular Nanoprisms and Nanodecahedra-Synthesis	LANGMUIR	xx	xxx-xxx	2011	3.993

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Anandan S	and Interaction studies with Luminol towards Biosensor Applications				7	
Ramamoorthy R, Maheswari G, Maggie DA, Karthika K, Eswaramoorthi V, Anandan S, Manohar S, Victor Williams R	Effect of TiO ₂ /reduced graphene oxide composite thin film as a blocking layer on the efficiency of dye-sensitized solar cells	JOURNAL OF SOLID STATE ELECTROCHEMISTRY	xx	xxx-xxx	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	xx	xxx-xxx	2016	4.556
Kaviyarasan K, Anandan S, Mangalaraja RV, Sivasankar T, Ashokkumar M	Sonochemical Synthesis of Cu ₂ O 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	Impact of acoustic	ULTRASONICS	30	98-102	2	4.556

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B, Victoria T, Irinia P, Sergey K, Sivashanmugam P, Anandan S	cavitation on food emulstion	SONOCHEMISTRY			0 1 6	
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 TiO ₂	CHEMICAL ENGINEERING & PROCESSING: PROCESS INTENSIFICATION	99	Oct-18	2 0 1 6	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	2 0 1 6	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	2 0 1 6	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	2 0 1 6	3.289
Dinesh GK, Anandan S, Sivasankar T	Synthesis of Fe-doped Bi ₂ O ₃ nanocatalyst and its sonophotocatalytic activity on synthetic dye and real textile wastewater	ENVIRONMENT SCIENCE POLLUTION RESEARCH	xx	xxx-xxx	2 0 1 6	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	2 0 1 6	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	2 0 1 6	4.449
Martha Ramesh, Nagaraja HS,	Fabrication, characterization and	MATERIALS LETTERS	172	85-89	2 0	2.437

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Martha Purnachander Rao, Anandan S, Huang NM	catalytic activity of α -MnO ₂ nanowires for dye degradation of reactive black 5				16	
Gnana Sundara Raj B, Wu JJ, Asiri AM, Anandan S	Hybrid SnO ₂ -Co ₃ O ₄ 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-H ₂ O ₂	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	Silicotungstic 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, Anandan S	High-Performance Electrocatalytic Activity of Palladium-Copper Nanoalloy towards	ELECTROANALYSIS	xx	xxx-xxx	2016	2.471

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	Methanol Electro-oxidation in an Alkaline Medium					
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 Mn ₃ O ₄ 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 TiO ₂ for visible light photocatalytic degradation of aqueous pollutants	JOURNAL OF EXPERIMENTAL NANOSCIENCE	10	115-125	2015	0.832

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Dinesh GK, Anandan S, Sivasankar T	Sonophotocatalytic treatment of Bismarck Brown G dye and real textile effluent using synthesized novel Fe(0) doped TiO ₂ catalyst	RSC ADVANCES	5	10440-10451	2 0 1 5	3.289
Naveenraj S, Lee GJ, Anandan S, Wu JJ	Nanosized Tantalum based Materials - Synthesis and Applications	MATERIALS RESEARCH BULLETIN	67	20-46	2 0 1 5	2.435
Anandan S, Wu JJ	Effective Degradation of Fipronil Using Combined Catalytic Ozonation Processes	OZONE SCIENCE & ENGINEERING	37	186-190	2 0 1 5	0.853
Gnana Sundara Raj B, Asiri AM, Wu JJ, Anandan S	Synthesis of Mn ₃ O ₄ Nanoparticles via Chemical Precipitation Approach for Supercapacitor Application	JOURNAL OF ALLOYS & COMPOUNDS	636	234-240	2 0 1 5	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	2 0 1 5	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	2 0 1 5	6.333
Anandan S, Villarreal TL, Wu JJ	Sonochemically Synthesized Engineering Mesoporous NiTiO ₃ Ilmenite Nanorods for the Catalytic Degradation of Tergitol in Water	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	54	2983-2990	2 0 1 5	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	2 0 1 5	---

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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 & PHTHALOCYANIN ES	19	01-Jul	2 0 1 5	1.087
Sivakumar R, Anandan S	Functional Nanocomposite Polymers	ENCYCLOPEDIA OF BIOMEDICAL POLYMERS AND POLYMERIC MATERIALS	7	5123-5135	2 0 1 5	--
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	2 0 1 5	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	2 0 1 5	---
Rokesh K, Anandan S, Jothivenkatachal am K	Polymer Electrolytes in Dye Sensitized Solar cells	MATERIAL FOCUS	4	262-271	2 0 1 5	---
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	2 0 1 5	--
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	2 0 1 5	1.183
Anandan S, Wu JJ, Ashokkumar M	Sonochemical Synthesis of Layered Copper Hydroxy Nitrate Nanosheets	CHEMPHYSICHEM	6	3389-3391	2 0 1 5	3.138

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Ashokkumar M, Anandan S	Comment on "Shining Light on Nanochemistry Using Silver Nanoparticle-Enhanced Luminol Chemiluminescence"	JOURNAL OF CHEMICAL EDUCATION	92	1778-1778	2 0 1 5	1.225
Kurukutla AB, Sathishkumar P, Anandan S, Sivasankar T	Intensification of Sonochemical Degradation of Rhodamine B using oxidants, hydrogen peroxide/peroxydisulphate /peroxymonosulphate with Fe ²⁺ ion: proposed pathway and Kinetic	ENVIRONMENTAL ENGINEERING SCIENCE	32	129-140	2 0 1 5	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	2 0 1 5	---
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	2 0 1 4	2.74
Anandan S, Asiri AM, Ashokkumar M	Ultrasound Assisted Synthesis of Sn Nanoparticles-Stabilized Reduced Graphene Oxide	ULTRASONICS SONOCHEMISTRY	21	920-923	2 0 1 4	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	2 0 1 4	---
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	2 0 1 4	1.978
Pugazhenthiran	Photocatalytic degradation	CHEMICAL	241	401-409	2	5.310

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N, Murugesan S, Sathishkumar P, Anandan S	of ceftiofur sodium in the presence of gold nanoparticles loaded TiO ₂ 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 TiO ₂ -WO ₃ 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 TiO ₂ 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 MnO ₂ nanoparticles as electrode material for	ULTRASONICS SONOCHEMISTRY	21	1933-1938	2 0 1 4	4.556

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	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 TiO ₂ /WO ₃ 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-TiO ₂ 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-PMo ₁₂ 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 TiO ₂ 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 Bi ₂ CuO ₄ nanoparticles	JOURNAL OF MOLECULAR CATALYSIS A:CHEMICAL	379	112-116	2013	3.958
Rubraj M, Ramkumar S, Anandan S	Photovoltaic Studies of Perylene diimide-based copolymers containing electronic Push-Pull	RSC ADVANCES	3	5108-5120	2013	3.289

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	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	2 0 1 3	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	2 0 1 3	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	2 0 1 3	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	2 0 1 3	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	2 0 1 3	---
Rubraj M, Anandan S, Zhou M, Ashokkumar M	Facile one-step synthesis of hollow polydiphenylamine	INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS	62	23-27	2 0 1 3	---
Sathishkumar P, Mangalaraja R V, Anandan S, Ashokkumar M	CoFe ₂ O ₄ /TiO ₂ 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	2 0 1 3	5.310
Ramkumar S, Anandan S	Synthesis of bianchored metal free organic dyes for	DYES & PIGMENTS	97	397-404	2 0	4.055

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	dye sensitized solar cells				1 3	
Sathishkumar P, Pugazhenthiran N, Mangalaraja R V, Asiri AM, Anandan S	ZnO supported CoFe ₂ O ₄ nanophotocatalysts for the mineralization of Direct Blue 71 in aqueous environments	JOURNAL OF HAZARDOUS MATERIALS	252- 253	171-179	2 0 1 3	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	2 0 1 3	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	2 0 1 3	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	2 0 1 3	2.347
Rubyraraj 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 PHOTOCHEMISTR Y AND PHOTOBIOLOGY A-CHEMISTRY	262	34-44	2 0 1 3	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 Hydroxyapatite	INTERNATIONAL JOURNAL OF MODERN PHYSICS	22	268-277	2 0 1 3	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	2 0 1 3	1.098
Anandan S, Gnana Sundara	Sonochemical Synthesis of Manganese (II) Hydroxide	MATERIALS RESEARCH	48	3357-3361	2 0	2.435

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Raj B, Lee GJ, Wu JJ	for Supercapacitor Applications	BULLETIN			1 3	
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	2 0 1 3	2.693
Paramasivaganes h 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	2 0 1 3	1.78
Anandan S, Pugazhenthiran N, Villarreal TL, Lee GJ, Wu	Catalytic Degradation of a Plasticizer, Di-ethylhexyl phthalate, Using Nx-TiO ₂ -x Nanoparticles Synthesized via Co-precipitation	CHEMICAL ENGINEERING JOURNAL	231	182-189	2 0 1 3	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	2 0 1 3	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	2 0 1 3	---
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	2 0 1 3	3.289
Pugazhenthiran N, Murugesan S, Anandan S	High Surface area Ag-TiO ₂ nanotubes for Solar/Visible-light Photocatalytic Degradation	JOURNAL OF HAZARDOUS MATERIALS	263	541-549	2 0 1 3	4.836

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	of Cefotiofur 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	2 0 1 2	1.769
Anandan S, Pugazhenthiran N, Selvamani T, Hsieh SH, Wu JJ	Investigation on photocatalytic potential of Au-Ta ₂ O ₅ semiconductor nanoparticle by degrading methyl orange in aqueous solution by illuminating with visible light	CATALYSIS SCIENCE & TECHNOLOGY	2	2502-2507	2 0 1 2	5.287
Anandan S, Lee GJ, Wu JJ	Sonochemical synthesis of CuO Nanostructures with different morphology	ULTRASONICS SONOCHEMISTRY	19	682-686	2 0 1 2	4.556
Anandan S	The contribution of nanotechnology for removal of water pollutants	MATERIAL SCIENCE FORUM	712	1-24	2 0 1 2	---
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	2 0 1 2	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	2 0 1 2	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	2 0 1 2	4.055
Anandan S, Lee GJ, Yang CK, Ashokkumar M, Wu JJ	Sonochemical synthesis of Bi ₂ CuO ₄ Nanoparticles for catalytic degradation of Nonylphenol Ethoxylate	CHEMICAL ENGINEERING JOURNAL	182	46-52	2 0 1 2	5.310
Manivel A, Sivakumar R,	Ultrasound assisted synthesis of hybrid	ELECTROCATALYSIS	3	22-29	2 0	2.347

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Anandan S, Ashokkumar M	phosphomolybdate- polybenzidine containing silver nanoparticles for electrocatalytic detection of chlorate, bromate and iodate ions in aqueous solutions	IS			1 2	
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	2 0 1 2	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	2 0 1 2	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	2 0 1 2	4.055
Rubraj 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	2 0 1 2	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	2 0 1 2	2.74
Rubraj M, Anandan S, Soloman RV, Venuvanalingam P, Iyer SSK, Ashokkumar M	Synthesis of Perylene bisimide based acceptor conjugated polymer for photovoltaic applications	JOURNAL OF PHOTOCHEMISTR Y AND PHOTOBIOLOGY A-CHEMISTRY	247	52-62	2 0 1 2	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	2 0 1 1	2.567
Sivakumar R,	Interactions of serum	JOURNAL OF	131	2195-2201	2	2.693

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Naveenraj S, Anandan S	albumins with anti tumor agent Benzo [a] Phenazine – A spectroscopic study	LUMINESCENCE			0 1 1	
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	2 0 1 1	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	2 0 1 1	2.347
Pugazhenthiran N, Sathishkumar P, Murugesan S, Anandan S	Effective degradation of acid orange 10 by catalytic ozonation in presence of Au-Bi ₂ O ₃ nanoparticles	CHEMICAL ENGINEERING JOURNAL	168	1227 -1233	2 0 1 1	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	2 0 1 1	---
Manivel A, Anandan S	Silver nanoparticles embedded phosphomolybdate-polyaniline hybrid electrode for electrocatalytic reduction of H ₂ O ₂	JOURNAL OF SOLID STATE ELECTROCHEMISTRY	15	153-160	2 0 1 1	2.327
Sathishkumar P, Anandan S, et al.	Synthesis of Fe ³⁺ doped TiO ₂ photocatalysts for the visible light assisted degradation of an azo dye	COLLOIDS & SURFACES A	375	231-236	2 0 1 1	2.760
Anandan S, Lee GJ, Chen PK, et al.	Removal of Orange II Dye in Water by Visible Light Assisted Photocatalytic Ozonation Using Bi ₂ O ₃ and Au/Bi ₂ O ₃ Nanorods	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	49	9729-9737	2 0 1 0	2.587
Manivel A, Naveenraj S, Sathish Kumar P, Anandan S	Cu-TiO ₂ Nanocatalyst for UV-photodegradation of Acid Red 88 in aqueous solution	SCIENCE OF ADVANCED MATERIALS	2	51-57	2 0 1 0	1.812
Pugazhenthiran N, Ramkumar S,	In-situ preparation of heteropolytungstic acid on	MICROPOROUS AND	131	170-176	2 0	3.349

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Kumar PS, et al.	TiMCM-41 nanoporous framework for photocatalytic degradation of textile dye methyl orange	MESOPOROUS MATERIALS			1 0	
Madhavan J, Kumar PSS, Anandan S, et al.	Sonophotocatalytic degradation of monocrotophos using TiO ₂ and Fe ³⁺	JOURNAL OF HAZARDOUS MATERIALS	177	944-949	2 0 1 0	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	2 0 1 0	2.653
Kumar PSS, Manivel A, Anandan S, et al.	Sonochemical synthesis and characterization of gold-ruthenium bimetallic nanoparticles	COLLOIDS AND SURFACES A- PHYSICO-CHEMICAL AND ENGINEERING ASPECTS	356	140-144	2 0 1 0	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	2 0 1 0	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	2 0 1 0	4.732
Madhavan J, Kumar PSS, Anandan S, et al.	Ultrasound assisted photocatalytic degradation of diclofenac in an aqueous environment	CHEMOSPHERE	80	747-752	2 0 1 0	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	2 0 1 0	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	2 0 1 0	3.782

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	into colloidal TiO ₂ and AuTiO ₂ 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	2 0 1 0	2.653
Sivakumar R, Akila K, Anandan S	New type of inorganic-organic hybrid (heteropolytungsticacid-polyepichlorohydrin) polymer electrolyte with TiO ₂ nanofiller for solid state dye sensitized solar cells	CURRENT APPLIED PHYSICS	10	1255-1260	2 0 1 0	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	2 0 0 9	2.477
Anandan S, Wu JJ	Microwave assisted rapid synthesis of Bi ₂ O ₃ short nanorods	MATERIALS LETTERS	63	2387-2389	2 0 0 9	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	2 0 0 9	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	2 0 0 9	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	2 0 0 9	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	2 0 0 9	1.064

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Anandan S, Sivakumar R	Effect of loaded TiO ₂ 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	2 0 0 9	2.578
Kathiravan A, Renganathan R, Anandan S	Interaction of colloidal AgTiO ₂ nanoparticles with bovine serum albumin	POLYHEDRON	28	157-161	2 0 0 9	2.108
Anandan S, Ashokkumar M	Sonochemical synthesis of Au-TiO ₂ nanoparticles for the sonophotocatalytic degradation of organic pollutants in aqueous environment	ULTRASONICS SONOCHEMISTRY	16	316-320	2 0 0 9	4.556
Kathiravan A, Anandan S, Renganathan R	Interaction of colloidal TiO ₂ with human serum albumin: A fluorescence quenching study	COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS	133	91-95	2 0 0 9	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	2 0 0 9	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	2 0 0 8	---
Dhanalakshmi KB, Anandan S, Madhavan J, et al.	Photocatalytic degradation of phenol over TiO ₂ powder: The influence of peroxomonosulphate and peroxodisulphate on the reaction rate	SOLAR ENERGY MATERIALS AND SOLAR CELLS	92	457-463	2 0 0 8	4.732
Kumar PSS, Sivakumar R, Anandan S, et al.	Photocatalytic degradation of Acid Red 88 using Au-TiO ₂ nanoparticles in	WATER RESEARCH	42	4878-4884	2 0 0	5.991

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	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 TiO ₂ 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
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Anandan S	Photocatalytic effects of titania supported nanoporous MCM-41 on degradation of methyl orange in the presence of electron acceptors	DYES AND PIGMENTS	76	535-541	2008	4.055
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; Yang, SH	Emergent methods to synthesize and characterize semiconductor CuO nanoparticles with various morphologies - an overview	JOURNAL OF EXPERIMENTAL NANOSCIENCE	2	23-56	2 0 0 7	0.832
Anandan S	Recent improvements and arising challenges in dye-sensitized solar cells	SOLAR ENERGY MATERIALS AND SOLAR CELLS	91	843-846	2 0 0 7	4.732
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	molecules present in the MCM-41 nanopores - An overview	MESOPOROUS MATERIALS			05	
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Anandan S, Yoon M	Photoinduced electron transfer studies of Nile red in the presence of TiO ₂ colloidal nanoparticles	SPECTROCHIMICA ACTA PART A- MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	60	885-888	2004	2.653
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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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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

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	H(2)O, [Ru(II)(dcbpy)(terpy)SCN]SC N.3H(2)O and [Ru(II)(dcbpy)(terpy)CN]CN. 3H(2)O systems					
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(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 - 2012 Conference	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

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Study of Au-TiO ₂ photocatalysts 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 ₂ nanofiller 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 ₂ nanofiller 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

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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

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				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
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(C) Books & Monographs (10)

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S. Anandan, J. Madhavan and M. Ashokkumar	The contribution of the nanotechnology to hydrogen", Nanotechnology for the Energy Challenge	Wiley-VCH, Weinheim	2010	
S. Anandan and M. Ashokkumar	Sonochemical preparation of monometallic, bimetallic and metal-loaded semiconductor nanoparticles", Theoretical and Experimental Inorganic Sonochemistry	Springer	2010	
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S. Anandan and M. Ashokkumar	Graphene Oxide Nanodisks and Nanodots -An overview", Carbon Nanomaterials Source book	Taylor & Francis books.	2015	
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 and Sonochemistry	Springer	2016	
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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	
S. Anandan , C. Femi Thomas and M. Ashokkumar	Contribution of nanotechnology to hydrogen Production", Nanotechnology for the Energy Challenge	Wiley-VCH, Weinheim	2016	

(D) Patents (1)

- 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).