National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

Curriculum Vitae

Brief Profile: Dr. R. Justin Joseyphus received his Ph.D in the area of nanocrystalline magnetic materials from University of Madras in the year 2005. He pursued his post-doctoral research in Tohoku University, Sendai, Japan till the year 2007. He joined the Department of Physics as faculty in September 2007. He has published more than 70 research articles in peer reviewed international journals and presented his work in various international conferences. His current research interest is in structure-properties relation in magnetic materials.

1. Name — Dr. R. Justin Joseyphus
2. Designation: — Assistant Professor
3. Office Address: — Department of Physics, NIT Trichy
4. Telephone (Direct) (Optional): — 2503614
   Telephone : 2503614 Extn (Optional):
   Mobile (Optional):
5. Email (Primary):rjustinj@nitt.edu — Email (Secondary) :rjustinj@yahoo.com
6. Field(s) of Specialization: Magnetic materials
7. Employment Profile

Job Title	Employer	From	To
Associate Professor	NIT Trichy	2018	-
Assistant Professor	NIT Trichy	Sept 2007	2018
Post-doctoral researcher	Tohoko Univ., Japan	2005	2007

8. Academic Qualifications (From Highest Degree):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	Madras Univ.	2005	Awarded	Physics-Materials Science
M.Sc	Bharathidasan Univ.	1998	First	Physics
B.Sc	MS Univ.	1996	First	Physics

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Faculty Advisor, NITTFEST	NITT	2021	-
Faculty Advisor, Nakshatra	NITT	2012	2021
Member, Library Advisory Committee	NITT	2020	-
Coordinator M.Sc	Dept of Physics, NIT-T	2022	-
Coordinator Ph.D. admissions	Dept of Physics, NIT-T	2016	2020
Coordinator, B.Tech (Physics)	Dept of Physics, NIT-T	2013	2015
Stock verification committee	Dept of Physics, NIT-T	2009	2015
FIST-Project implementation committee	Dept of Physics, NIT-T	2008	2012
Coordinator, M.Tech (NDT)	Dept of Physics, NIT-T	2008	2010
PAC chairman, M.Tech (NDT)	Dept of Physics, NIT-T	2008	2010
M.Tech (NDT) admission committee member	Dept of Physics, NIT-T	2007	2008

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Member, board of studies	Thiagarajar engineering college, Madurai	2016	-
Member, board of studies	Christ college, Bangalore	2015	-
Member, board of studies	St.Xavier's college, Tirunelveli	2009	2010

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2015	Fellow	The Academy of Sciences, Chennai
2012	Chartered Physicist	Institute of Physics, UK
2006	Young poster award	ISHR&ICSTR, Japan

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2004	Research Fellow	Tohoku Univ., Japan	Apr/2004	June/2004
2003	Research Fellow	MEXT, Japan	Oct/2003	Mar/2004
2002	Senior Research Fellow	CSIR	2002	2005
1999	Project Fellow	UGC	1999	2001

13. Details of Academic Work

(i) Curriculum Development

a. Basic metallurgy and fracture mechanics - NDT core
b. Computer applications in Physics - elective for M.Sc and M.Tech NDT
c. Electrical electronic and magnetic materials - Elective for NDT
d. Magnetism and superconducting levitation - Elective for M.Sc
e. M.Tech laboratory development - Thermography camera, Computer lab.
f. Nuclear and particle physics - M.Sc core
g. B.Tech Physics I yr. and lab

(ii) Courses taught at Postgraduate and Undergraduate levels

Course	degree	Year
Physics – I	B.Tech I yr	2011-2022
Magnetism and Superconducting Levitation	M.Sc	2011-2022
Practicals II	M.Tech NDT	2012
Electrical Magnetic and Optoelectronic Materials	M.Tech NDT	2013-2014
Physics – II	B.Tech I yr	2011-2016
Computer Applications in Physics	M.Sc	2011
Nuclear and Particle Physics	M.Sc	2009-2011
Physics Lab III	M.Sc	2009-2010
Basic Metallurgy and Fracture Mechanics	M.Tech NDT	2008-2010
Engineering Mechanics	B.Tech	2008-2009
Electrical Electronic and Magnetic Materials	B.Tech MME	2008-2009
Advanced NDT II	M.Tech NDT	2008
Computer Aided Instrumentation	M.Sc	2007
Physics Laboratory	M.Sc	2007

(iii) Projects guided at Postgraduate level

PG projects	Number
M.Sc Projects	27
M.Tech Projects	25

(iv) Other contribution(s)

a. Dept. outreach through social media (facebook)
b. Founder of magnetic materials group with more than 300 professional members (linkedin)
c. Course development (available in www.nitt.edu)
d. Reviewer – ACS and Elsevier Physics/Materials Science journals
e. Faculty advisor for – astronomy club and Physics club

f. Development of telescope facilities
g. Development of magnetic materials laboratory
h. Development of liquid nitrogen facility
i. Development of TEM facility
j. Development of VSM and TG/DTA facilities
k. Development of B.Tech Physics Laboratory

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Tunable magnetic and magnetocaloric properties of rare earth free Fe-Ni-Cu crystalline and amorphous alloys through low cost chemical method for magnetic refrigeration applications	DST TARE	2021	2024	Ongoing
Thermoablation mechanism in core-shell nanoparticles with highly magnetic FeCo core	DST CRG	2019	2022	Completed
Development of Magnetic Nanoparticles Suitable for Detoxification and Drug Delivery	DST SERB	2008	2011	Completed
Synthesis and characterization of nanomaterials for engineering applications (Co-Investigator)	DST-Nanomission	2008	2011	Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Dr. K. Prakash	Magnetic properties of Cobalt based	Supervisor	2015

	binary alloy nanoparticles synthesized by polyol process		
Dr. T. Arun	Prussian blue modified Fe based magnetic nanoparticles	Supervisor	2015
Dr. P. Rajesh	Investigation of exchange bias in FeCo synthesized through polyol process	Supervisor	2021
Dr. Antilen Jacob	Structural, magnetic and catalytic properties of iorn and nickel based alloys synthesized through polyol process	Supervisor	2022
Ms. J. Shebha Anandhi	Evaluation of the magnetic anisotropy dependent heating mechanism of ferrites and core-shell nanoparticles	Supervisor	2022

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
2016-2022	Various workshops/conferences	National/International	Speaker and participants	-	-
4-6 Aug 2016	Workshop	National	Speaker	NIT-T	NIT Trichy
July 11-13, 2016	International Conference	International	Paper presentation	Univ. Shiga.Pref., Japan	Hikone, Japan
5 Mar 2016	UGC refresher course	Local	Speaker	UGC-BDU	BDU, Trichy
Feb 20- 23, 2016	International conference	International	Paper presentation	CUSAT, Cochin	CUSAT, Cochin
14 Jan 2016	TEQIP workshop	National	Speaker	CUSAT, Cochin	Cochin
17 Dec 2015	Special lecture	Local	Speaker	Jamal Mohammed College	Trichy
25th July 2015	FDP programme	Local	Speaker	Anna Univ., Trichy	AU, Trichy
13 June 2015	Summer	National	Speaker	The Academy	Chennai

	training			of Sciences, Chennai	
May 2015	Summer training	Local	Speaker	Bishop Heber College, Trichy	BHC, Trichy
28-29- April 2015	Conclave	National	Participant	NIT Trichy	NIT-T
12 Dec 2014	Seminar	National	Speaker	NMC College, Marthandam	Marthandam
Dec 1-9, 2014	Training programme	National	Participant	BARC, Mumbai	BARC, Mumbai
Nov 7, 2015	Short term course	National	Speaker	NIT Trichy	NIT-T
Oct 31- Nov 1, 2014	Short term course	National	Speaker	NIT Trichy	NIT-T
10 Oct, 2014	Seminar	National	Speaker	Mar Ivanios College, Trivandrum	MIC, Trivandrum
Sept 15-17, 2014	International conference	International	Presented paper	Pondicherry Univ.	Pondicherry
17th March 2014	Workshop	Local	Participant	NIT Trichy	NIT-T
11th Oct 2013	State Level seminar	Local	Speaker	EVR College Trichy	EVR, Trichy
Jul 1-5, 2013	International conference	International	Presented paper	MRSI, Singapore	Singapore
Dec 3-7,2012	Short term course	National	Speaker	NIT Trichy	NITT
Dec 13-14, 2012	Young scientists meet	National	Speaker	Kerala Univ., Trivandrum	Trivandrum
March 9-10, 2012	National conference	National	Speaker	NMC, Marthandam	Marthandam
Jan 30, 2012	Refresher course	Local	Speaker	UGC-BDU	BDU, Trichy
Jan 03, 2012	National conference	National	Speaker	VVV college for women	Virudhunagar
8-11 Dec 2011	National seminar	National	Participant	ISNT, Chennai	Chennai
4th Nov 2011	National workshop	National	Speaker	St Johns college, Anchal	Anchal
6-12 Jul, 2011	Faculty development	National	Participant	NIT Calicut	NIT Calicut
29 Jun- 1 Jul,	International	International	Paper	MRSI,	Singapore

2011	conference		presentation	Singapore	
14-24 Jun, 2011	ISTE workshop	National	Participant	IIT Bombay	NIT Trichy
Oct 25-29, 2010	International conference	International	Paper presentation	SINP Kolkata	Kolkata
Dec 10-12, 2009	National seminar	National	Participant	ISNT, Trichy	NIT Trichy
Feb 20-21, 2009	Seminar	National	Participant	IIT Madras	IIT Madras
Nov 20, 2008	Awareness programme	Local	Participant	NIT Trichy	NIT Trichy
21-23 Oct, 2008	International conference	International	Paper presentation	NPL New Delhi	NPL NewDelhi
Aug 08-09, 2008	Seminar on RTI	Local	Participant	NIT Trichy	NIT Trichy
July 07-12, 2008	Training programme	Local	Participant	NITTR, Chennai	NITTR, Chennai
Apr 11, 2008	One day Seminar	Local	Participant	NIT Trichy	NITT
Mar 15, 2008	One day Seminar	Local	Participant	NIT Trichy	NITT
Dec 11-16, 2007	International conference	International	Paper presentation	SINP Kolkata	Kolkata
Nov 28-30, 2007	National seminar	National	Participant	ISNT Vadodara	Vadodara

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
Workshop on nanomaterials for emerging applications (NMEA2022)	National	Feb 25-26, 2022	Coordinator	Breeze Residency, Trichy
Workshop on materials characterization for advanced applications WCMAA2016	National	August 4-6, 2016	Coordinator	NIT Trichy.
Short term course on magnetic and semiconducting nanomaterials (MSM2014)	National	Oct 31- Nov 1, 2014	Coordinator	NIT Trichy.
Short term course on materials characterization	National	December 3-7,2012	Coordinator	NIT Trichy

(STCMC2012) -				

18. Invited Talks delivered

Topic	Date	Inviting Organization
Magnetic Nanoparticles and Mossbauer spectroscopy	2016-2022	Various universities and colleges
Magnetic Nanoparticles	05 Mar 2016	Bharathasan Univ., Trichy
Magnetic nanoparticles and applications	14 Jan 2016	CUSAT, Cochin
Fundamentals and applications of magnetic nanoparticles	17 Dec 2015	Jamal Mohammad college, Trichy
Magnetic nanoparticles	25 July 2015	Anna Univ., Trichy
Magnetic nanoparticles and its applications	13 June 2015	The Academy of Science Chennai
Mossbauer spectroscopy	12 Dec 2014	NMC College, Marthandam
Magnetic characterization	Nov 7, 2015	NIT Trichy
Magnetic characterization	Oct 31- Nov 1, 2014	NIT Trichy
Mossbauer spectroscopy	10 Oct, 2014	Mar Ivanios College, Trivandrum
Magnetic nanoparticles	11th Oct 2013	EVR College Trichy
Magnetic characterization	Dec 3-7,2012	NIT Trichy
Electron microscopy	Dec 13-14, 2012	Kerala Univ., Trivandrum
Quantum chemsitry	March 9-10, 2012	NMC, Marthandam
Magnetism	Jan 30, 2012	UGC-BDU
Magnetic nanoparticles	Jan 03, 2012	VVV college for women
Applications of magnetic nanoparticles	4th Nov 2011	St Johns college, Anchal

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life member	Magnetics Society of India (MSI), Hyderabad, India	LM200
Life Member	Indian Physics Association (IPA), Mumbai, India	MAD/LM/11918
Life Member	Materials Research Society of India, Bangalore, India	LM B 1081
Life Member	Indian Society for Non-Destructive Testing (ISNT), India	LM-8440-TC

Member	Institute of Physics, UK	2012

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Japan	May 2014 – one week	DST sponsored Synchrotron experiments in KEK, Tsukuba, Japan
Japan	Jun 2009-1 month	Collaborative research work in Tohoku University, Japan

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page number(s)	Year
K. S. Sivaranjani, G. Antilen Jacob, R. Justin Joseyphus	Comprehensive Law-of-Approach-to-Saturation for the Determination of Magnetic Anisotropy in Soft Magnetic Materials	Phys. Stat. sol. (b)	In press		2022
G Antilen Jacob, SP Sathiya Prabhakaran, G Swaminathan, R Justin Joseyphus	Thermal kinetic analysis of mustard biomass with equiatomic iron–nickel catalyst and its predictive modeling	Chemosphere	286	131901	2022
G Antilen Jacob, R Justin Joseyphus	Enhanced Curie Temperature and Critical Exponents of Fe-Substituted NiCu Alloy	Phys. Stat. sol. (a)	218	2100050	2021
S Thirugnanasambandan, RT Anbalagan, D Saminathan, Justin Joseyphus, N Vengidusamy, S Arumainathan	Structure and Magnetic Properties of Pulsed Electrodeposited Nickel-Indium Alloy	Phys. Stat. sol. (b)	258	2000563	2021
JS Anandhi, RJ Joseyphus	Insights on the Heating Characteristics of Mn and Co Ferrites	Inter. J. Thermophys.	42	30	2021
GA Jacob, RJ Joseyphus	Magnetic properties of FeCo-iron oxide core–shell nanoparticles investigated through first order reversal studies	Applied Physics A	127	1	2021
F Francis, JS Anandhi, GA Jacob, D Sastikumar, RJ Joseyphus	Temperature Sensitivity of Magnetic Nanoparticle Hyperthermia Using IR	International Journal of Nanoscience	-	2150002	2020

	Thermography				
JS Anandhi, T Arun, RJ Joseyphus	Role of magnetic anisotropy on the heating mechanism of Co-doped Fe3O4 nanoparticles	Physica B: Condensed Matter	598	412429	2020
KS Sivaranjani, GA Jacob, RJ Joseyphus	Coercivity and exchange bias in size reduced iron obtained through chemical reduction	*J. Magn. Magn. Mater*	513	167228	2020
JS Anandhi, GA Jacob, RJ Joseyphus	Factors Affecting the Heating Efficiency of Mn-doped Fe3O4 Nanoparticles	*J. Magn. Magn. Mater.*	512	166992	2020
KP Remya, D Prabhu, R Justin Joseyphus, A Chandra Bose, C Viswanathan, N Ponpandian	Tailoring the morphology and size of perovskite BiFeO3 nanostructures for enhanced magnetic and electrical properties	*Materials and Design*	192	108694	2020
Rajesh Ponraj, Arun Thirumurugan, G Antilen Jacob, KS Sivaranjani, R Justin Joseyphus	Morphology and magnetic properties of FeCo alloy synthesized through polyol process	*Applied Nanoscience*	10	477	2020
G Antilen Jacob, S Sellaiyan, A Uedono, R Justin Joseyphus	Magnetic properties of metastable bcc phase in Fe64Ni36 alloy synthesized through polyol process	*Applied Phys. A*	126	120	2020
P. Rajesh, J.M-Greneche, G. Antilen Jacob, T. Arun and R. Justin Joseyphus	Exchange Bias in Chemically Reduced FeCo Alloy Nanostructures	*Phys. Stat. Sol. A*	216	1900051	2019
T Arun, Suresh K Verma, Pritam Kumar Panda, R Justin Joseyphus et al.,	Facile synthesized novel hybrid graphene oxide/cobalt ferrite magnetic nanoparticles based surface coating material inhibit bacterial secretion pathway for antibacterial effect	*Mater. Sci. Engg. C*	104	109932	2019
P. Karipoth and R. Justin Joseyphus	Enhanced coercivity in non-equiatomic CoPt-Cu nanoparticles	*J. Magn. Magn. Mater.*	471	475	2019
Reshma Reba Alexander and R. Justin Joseyphus	Effect of microstructure parameter on the energy product in two-phase permanent magnetic materials	*Mod. Phy. Lett. B*	33	1950025	2019
J Shebha Anandhi, G Antilen Jacob and R Justin Joseyphus	Heating characteristics of dextran modified magnetite nanoparticles by infrared thermography	*Mater. Res. Express*	6	015045	2019
P. Rajesh, S. Sellaiyan, A. Uedono, T. Arun and R. Justin Joseyphus	Positron Annihilation Studies on Chemically Synthesized FeCo Alloy	*Scientific Reports (Nature)*	8	*9764*	2018
R. Srinivasan, N. Rajeswari Yogamalar, J. Elanchezhiyan, R. Justin Joseyphus and A. Chandra Bose	, Structural and optical properties of europium doped yttrium oxide nanoparticles for phosphor applications,	J. Alloys and Compoun ds,	496	472	(2010)
S.	Investigations on the	J. Alloys	493	569	(2010)

Kazhugasalamoorthy, P. Jegatheesan, R. Mohandoss, N.V. Giridharan, B. Karthikeyan, R. Justin Joseyphus and S. Dhanuskodi,	properties of pure and rare earth modified bismuth ferrite ceramics,	and Compoun ds,			
R. Srinivasan, N. R. Yogamalar, R. Justin Joseyphus and A. Chandra Bose,	Estimation of lattice strain, stress, energy density and crystallite size of the spherical yttrium oxide nanoparticles,	Functional Materials Letters (FML),	2	131	(2009)
T. Hosono, H. Takahashi, A. Fujita, R. Justin Joseyphus, K. Tohjia and B. Jeyadevan,	Synthesis of magnetite nanoparticles for AC magnetic heating, .	J. Magn. Magn. Mater.	321	3019-3023	(2009)
R. Justin Joseyphus, A. Narayanasamy, L. K. Varga and B. Jeyadevan,	Studies on the exchange and dipolar couplings in Nd2Fe14B/alpha-Fe ribbons.	Int. J. Mater. Res.	1	70-74	(2008)
R. Justin Joseyphus, B. Jeyadevan, K. Shinoda, Y. Sato and K. Tohji,	Composition controlled synthesis of fcc-FePt using a modified polyol process,	J. Mater. Sci.	43	2402	(2008).
N Sivakumar, A Narayanasamy, B Jeyadevan, R Justin Joseyphus and C Venkateswaran,	Dielectric relaxation behaviour of nanostructured Mn-Zn Ferrite,	J. Phys. D: Appl. Phys	41	245001	(2008)
R. Justin Joseyphus, T. Matsumoto, H. Takahashi, D. Kodama, K. Tohji and B. Jeyadevan,	Designed synthesis of cobalt and its alloys by polyol process,	J. Solid State Chem.	180	3008.	(2007)
R. J. Joseyphus, T. Matsumoto, Y. Sato, B. Jeyadevan and K. Tohji,	Role of Polyol in the Synthesis of Fe Particles,	J. Magn. Magn. Mater.	310	2393	(2007)
D. Kalpana, R. Justin Joseyphus, N. Sivakumar, A. Narayanasamy and M. V. Ananth,	Structural, magnetic and electrochemical studies on LiCo0.5Fe0.5O2,	Ionics,	12	371-378	(2006)
D. Kodama, K.	Chemical Synthesis of	Advanced	18	3154-	(2006)

Shinoda, Sato, Y. Konno, R. J. Joseyphus et al.,	Sub-micrometer to Nanometre Sized Magnetic FeCo Dice,.	Materials,		3159	
B. Jeyadevan, K. Shinoda, R. J. Justin, T. Matsumoto, K. Sato, H. Takahashi, Y. Sato and K. Tohji,	Polyol Process for Fe-based Hard(fct-FePt) and Soft(FeCo) Magnetic Nanoparticles,	IEEE Trans. Magn.	42	3030-3035.	2006)
R. Justin Joseyphus, A. Narayanasamy, R. Gopalan, V. Chandrasekaran, B. Jeyadevan and K. Tohji,	Magnetic Properties of Mechanically Milled Sm-Co Permanent Magnetic Materials with the TbCu7 Structure,	Materials Transactions	47	2264-2268.	2006)
R. Justin Joseyphus, A. Narayanasamy, K. Shinoda, B. Jeyadevan and K. Tohji,	Synthesis and Magnetic Properties of the Size-Controlled Mn-Zn Ferrite Nanoparticles by Oxidation Method,	Journal of Physics and Chemistry of Solids	67	1510	(2006)
D. Kalpana, R. Justin Joseyphus, C. Venkateswaran, A. Narayanasamy and M. V. Ananth,	Influence of Magnetic Properties on Electrochemical Activity of LiNi0.5Fe0.5O4,	Journal of Power Sources	156	598-603.	(2006)
R. Justin Joseyphus, A. Narayanasamy, A. K. Nigam and R. Krishnan,	Effect of Mechanical Milling on the Magnetic Properties of Garnets,	Journal of Magnetism and Magnetic Materials	296	57-64	(2006).
R. Justin Joseyphus, A. Narayanasamy, D. Prabhu, L. K. Varga, B. Jeyadevan, C. N. Chinnasamy, K. Tohji and N. Ponpandian,	Dipolar and Exchange Couplings in Nd2Fe14B/□-Fe Ribbons,	Physica status solidi (c),	1	3489 - 3494	(2004)
R. Justin Joseyphus, A. Narayanasamy, N. Sivakumar, M. Guyot, R. Krishnan, N. Ponpandian and K. Chattopadhyay,	Mechanochemical Decomposition of Gd3Fe5O12 Garnet Phase.	Journal of Magnetism and Magnetic Materials,	272-276,	2257-2259	(2004)
L. Seetha Lakshmi, V. Sridharan, D. V. Natarajan, S. Chandra, V. Sankar Sastry, T. S. Radhakrishnan, N.	Reply to the Comment on papers 'Effect of Ag substitution on the transport property and magnetoresistance of LaMnO3' and 'Possible	J. Magn. Magn. Mater.	270	241	(2004)

Ponnpandian, R. J. Joseyphus and A. Narayanasamy,	magnetic phase separation in Ru doped La0.67Ca0.33',				
C. N. Chinnasamy, B. Jeyadevan, K. Shinoda, K. Tohji, D. J. Djayaprawira, M. Takahashi, R. Justin Joseyphus and A. Narayanasamy,	Unusually High Coercivity and Critical Single-Domain Size of Nearly Monodispersed CoFe2O4 Nanoparticles,	Applied Physics Letters,	83	2862-2864	(2003)
L. Seetha Lakshmi, V. Sridharan, D. V. Natarajan, Sharat Chandra, V. Sankar Sastry, T. S. Radhakrishnan, PonnPandian, R. Justin Joseyphus and A. Narayansamy,	Possible Magnetic Phase Separation in Ru-doped La0.67Ca0.33MnO3,	Journal of Magnetism and Magnetic Materials,	257	195-205	, (2003)
C. N. Chinnasamy, A. Narayanasamy, N. Ponpandian, R. Justin Joseyphus, B. Jeyadevan, K. Tohji, and K. Chattopadhyay,	Grain Size Effect on the Neel Temperature and Magnetic Properties of Nanocrystalline NiFe2O4 Spinel,.	Journal of Magnetism and Magnetic Materials,	238	281-287	(2002)
C. N. Chinnasamy, A. Narayanasamy, N. Ponpandian, R. Justin Joseyphus, K. Chattopadhyay, K. Shinoda, B. Jeyadevan, K. Tohji, K. Nakatsuka and J-M. Greneche,	Structure and Magnetic Properties of Nanocrystalline Ferrimagnetic CdFe2O4 Spinel,	Scripta Materialia	44	1411-1415	(2001).
C. N. Chinnasamy, A. Narayanasamy, N. Ponpandian, R. Justin Joseyphus, K. Chattopadhyay, K. Shinoda, B. Jeyadevan, K. Tohji, K. Nakatsuka and J-M. Greneche,.	Ferrimagnetic Ordering in Nanostructured CdFe2O4 Spinel,	Journal of Applied Physics,	90	527-529	(2001)

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Nakul Kumar and R Justin Josyphus	Eddy Current Thermography as a Tool for Detecting the Location and Dimension of Edge Defects in Cr–Mo Steel Plate	Advances in Non Destructive Evaluation		NDT		2022
K S Sivaranjani, R Justin Joseyphus	Magnetic and optical properties of FeAu synthesized through polyol process	National conference on light matter interaction at nanoscale		Optical materials	IGCAR Kalpakkam	2019
K. Prakash and R. Justin Joseyphus,	Interparticle interaction effects in ordered Co-Pt nanoparticles,	Cochin Nano 2016,.		Nano	CUSAT cochin	2016
K. Prakash and R. Justin Joseyphus, ,	Magnetic properties of flower like FeCo particles, Puducherry.	ICMAGMA 2014		Magnetism	Pondicherry University,	2014
M. Sindhuja, S. Abithasri, T. Arun, K. Prakash and R. Justin Joseyphus, ,	Magnetic properties of Barium Hexaferrite and evaluation of its biomedical applications,	2013 JSAP-MRS joint symposia		Materials	Doshisha University, Kyoto ,Japan	2013
Arun THIRUMURUGAN, Prakash KARIPOTH and Justin JOSEYPHUS,	Size Controlled Fe Nanoparticles Modified with Prussian Blue,	ICMAT2013		Materials	MRS, Singapore	2013
T. Arun, R. Kuppusamy, K. Prakash and R. Justin Joseyphus,	Prussian Blue modified Fe3O4 nanocubes,	Optical Flare-2013		Optics	NIT Goa	2013
, K. Prakash, T.	Synthesis and	ICMF20		Magnetic	NPL	2013

Arun and R. Justin Joseyphus	Properties of CoNi Alloy Nanoparticles Prepared by Polyol Process for Soft Magnetic Applications	13		fluids	Delhi	
M.Vairavel, S. Gokul Raj and R. Justin Joseyphus	Synthesis, thermal and magnetic analysis of nanocrystalline yttrium iron garnet (Y3Fe5O12) by citrate gel method	National Conference on Advanced Materials and Applications(NCAMA 2013)		Advanced materials	NIT Trichy	2013
K. Prakash, S. Nallamuthu, and R. Justin Joseyphus	Synthesis and Properties of Gold Coated Magnetic Nanoparticles,	IFO2012		Optics	Newyork, US	2012
K. Prakash, T Arun, R. Justin Joseyphus and B. Jeyadevan	Size distribution effects on the optical properties of gold nanoparticles synthesized by polyol process,	FIO		Optics	NY, US	2012
Sharma, Arun Kumar and Ghosh, Arpita and Das, T K and Joseyphus, R Justin and Palit Sagar	To Establish the Feasibility of IR Thermography for Sorting of Iron Ores for Identifying & Rejecting Alumina Rich Ores	NDE2012,		NDT	New delhi	2012
V. Arun, Krishnan Balasubramanian, R. Justin Joseyphus and M.N. Libin	Detection of angular defects in OHS plate by pulsed eddy current thermography	NDE 2011		NDT	Chennai, India	2011
Arnold. C. Elver, Rajat Kumar Roy and Justin Joseyphus R	Residual stress analysis using magnetic NDE technique,	NDE 2011,		NDT	Chennai,	2011
Nishant.S.Prabhu, Justin Joseyphus, B. Ravi Kumar, A. Ravi Kumar, A.	A potential use of magnetic barkhausen emission technique for residual stress	NDE 2011		NDT	Chennai,	2011

Mitra and Ashis Kumar Panda,	analysis in surface mechanical attrition treated iron and steel components,					
R. Krishnan, T. Arun, R. Justin Joseyphus,	Core-shell magnetic nanoparticles for biomedical applications,	COCHIN NANO2011		Nano	CUSAT	2011
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