

# 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 40 research articles in peer reviewed international journals and presented his work in various international conferences. His current research interest is in the synthesis and characterization of magnetic nanoparticles for engineering and biomedical applications.

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
Assistant Professor	NIT Trichy	Sept 2007	Till date
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	-	Physics-Materials Science
M.Sc	Bharathidasan Univ.	1998	First	Physics
B.Sc	MS Univ.	1996	First	Physics

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### 9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Coordinator Ph.D. admissions	Dept of Physics, NIT-T	2016	Till date
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

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### 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	2011-2016
Magnetism and Superconducting Levitation	M.Sc	2011-2016
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	14
M.Tech Projects	16

#### (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](http://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

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- 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
Development of Magnetic Nanoparticles Suitable for Detoxification and Drug Delivery	DST	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
Mr. K. Prakash	Magnetic properties of Cobalt based binary alloy nanoparticles synthesized by polyol process	Supervisor	2015
Mr. T. Arun	Prussian blue modified Fe based magnetic nanoparticles	Supervisor	2015

### 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
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

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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
25 <sup>th</sup> July 2015	FDP programme	Local	Speaker	Anna Univ., Trichy	AU, Trichy
13 June 2015	Summer training	National	Speaker	The Academy of Sciences, Chennai	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,	National	National	Speaker	NMC,	Marthanda

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2012	conference			Marthandam	m
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, 2011	International conference	International	Paper presentation	MRSI, Singapore	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
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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 (STCMC2012) -	National	December 3-7,2012	Coordinator	NIT Trichy

### 18. Invited Talks delivered

Topic	Date	Inviting Organization
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

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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	IF (Optional)
P. Karipoth, T. Arun, S. Velaga, J.-M. Greneche and R. Justin Joseyphus	Magnetic properties of FeCo alloy nanoparticles synthesized through instant chemical reduction	J. App. Phys.	120	1239-06	(2016)	
T Arun, R Justin Joseyphus	Prussian blue modified FePt nanoparticles for the electrochemical reduction of H <sub>2</sub> O <sub>2</sub>	Ionics	22	877	(2016)	
K. Prakash and R. Justin Joseyphus	Magnetic properties of interacting CoPt nanoparticles prepared through polyol process	Mater. Chem. Phys.	154	53	(2015)	
T. Arun and R. Justin	Prussian blue	J Mater	49	7014	(2014)	



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Joseyphus	modified Fe <sub>3</sub> O <sub>4</sub> nanoparticles for Cs detoxification	Sci.,				
K. Prakash and R. Justin Joseyphus	Influence of Annealing Parameters on the Magnetic Properties of CoPt Nanoparticles	Sci. Adv. Mater.,	6	1792	(2014)	
K. Prakash and R. Justin Joseyphus	Evolution of High Coercivity in CoPt Nanoparticles Through Nitrogen Assisted Annealing	J Supercon d Nov Magn.,	27	2123	(2014)	
T. Arun, K. Prakash, R. Kuppusamy and R. Justin Joseyphus	Magnetic properties of Prussian blue modified Fe <sub>3</sub> O <sub>4</sub> nanocubes	J. Phys. Chem. Solids	74	1761	(2013)	
T. Arun, K. Prakash and R. Justin Joseyphus	Synthesis and Magnetic Properties of Prussian blue modified Fe nanoparticles	J. Magn. Magn. Mater.	345	100	(2013)	
Prakash Karipoth, Arun Thirumurugan, R. Justin Joseyphus,	Synthesis and magnetic properties of flower-like FeCo particles through a one pot polyol process ,	Journal of Colloid and Interface Science	404	49	(2013)	
Nishanth S. Prabhu, J. Joseyphus, T. S. N. Sankaranarayanan, B. Ravi Kumar, Amitava Mitra, and A. K. Panda ,	Residual Stress Analysis in Surface Mechanical Attrition Treated (SMAT)Iron and Steel Component Materials by Magnetic Barkhausen Emission Technique	IEEE Trans. Magn.	48	4713	(2012)	
T. Arun, M. Vairavel, S. Gokul Raj, R. Justin Joseyphus,	Crystallization kinetics of Nd-substituted yttrium iron garnet prepared through sol-gel auto-combustion	Ceramics Internatio nal,	38	2369	(2012)	

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	method,					
S. Gokul Raj, S. Nallamuthu, and R. Justin Joseyphus,	Autocombustion Synthesis of Nanocrystalline Gadolinium Iron Garnet,	Nanoscience and Nanotechnology Letters	3	1	(2011)	
R. Justin Joseyphus, B. Jeyadevan,	Low temperature synthesis of ITO nanoparticles using polyol process,	J. Phys. Chem. Solids,	72	1212	(2011)	
R. Justin Joseyphus, K. Shinoda, D. Kodama, B. Jeyadevan	Size controlled Fe nanoparticles through polyol process and their magnetic properties,	Mater. Chem. Phys.	123	487	(2010)	
Harendra Kumar, J.N. Mohapatra, Rajat Kumar Roy, R. Justin Joseyphus, Amitava Mitra,	Evaluation of tempering behaviour in modified 9Cr–1Mo steel by magnetic non-destructive techniques,	J. Mater. Proc. Tech,	210	669	(2010)	
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 Compounds,	496	472	(2010)	
S. Kazhugasalamoorthy, P. Jegatheesan, R. Mohandoss, N.V. Giridharan, B. Karthikeyan, R. Justin Joseyphus and S. Dhanuskodi,	Investigations on the properties of pure and rare earth modified bismuth ferrite ceramics,	J. Alloys and Compounds,	493	569	(2010)	
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)	

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T. Hosono, H. Takahashi, A. Fujita, R. Justin Joseyphus, K. Tohji 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 Nd <sub>2</sub> Fe <sub>14</sub> B/ $\alpha$ -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	2450-01	(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 LiCo <sub>0.5</sub> Fe <sub>0.5</sub> O <sub>2</sub> ,	Ionics,	12	371-378	(2006)	
D. Kodama, K. Shinoda, Sato, Y. Konno, R. J. Joseyphus et al.,	Chemical Synthesis of Sub-micrometer to Nanometre Sized Magnetic FeCo Dice,.	Advanced Materials ,	18	3154-3159	(2006)	
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)	

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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 TbCu <sub>7</sub> 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 LiNi <sub>0.5</sub> Fe <sub>0.5</sub> O <sub>4</sub> ,	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 Nd <sub>2</sub> Fe <sub>14</sub> B/□-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 Gd <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> 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. Ponnandian, R. J. Joseyphus and A. Narayanasamy,	Reply to the Comment on papers 'Effect of Ag substitution on the transport property and magnetoresistance of LaMnO <sub>3</sub> ' and 'Possible magnetic	J. Magn. Mater.	270	241	(2004)	

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	phase separation in Ru doped La <sub>0.67</sub> Ca <sub>0.33</sub> ,					
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 CoFe <sub>2</sub> O <sub>4</sub> 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 La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> ,	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 NiFe <sub>2</sub> O <sub>4</sub> 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 CdFe <sub>2</sub> O <sub>4</sub> 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 CdFe <sub>2</sub> O <sub>4</sub> Spinel,	Journal of Applied Physics,	90	527-529	(2001)	

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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedi ngs	Page numbers	Conference Theme	Venue	Year
K. Prakash and R. Justin Joseyphus,	Interparticle interaction effects in ordered Co-Pt nanoparticles,	Cochin Nano 2016,.		Nano	CUS AT cochin	2016
K. Prakash and R. Justin Joseyphus, ,	Magnetic properties of flower like FeCo particles, Puducherry.	ICMAG MA 2014		Magnetism	Pondi cherry Unive rsity,	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	Doshi sha Unive rsity, Kyoto ,Japan	2013
Arun THIRUMURUGAN, Prakash KARIPOTH and Justin JOSEYPHUS,	Size Controlled Fe Nanoparticles Modified with Prussian Blue,	ICMAT2 013		Materials	MRS, Singa pore	2013
T. Arun, R. Kuppusamy, K. Prakash and R. Justin Joseyphus,	Prussian Blue modified Fe <sub>3</sub> O <sub>4</sub> nanocubes,	Optical Flare- 2013		Optics	NIT Goa	2013
, K. Prakash, T. Arun and R. Justin Joseyphus	Synthesis and Properties of CoNi Alloy Nanoparticles Prepared by Polyol Process for Soft Magnetic Applications	ICMF20 13		Magnetic fluids	NPL Delhi	2013
M. Vairavel, S. Gokul Raj and R. Justin Joseyphus	Synthesis, thermal and magnetic analysis of nanocrystalline yttrium iron garnet (Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> ) by citrate gel method	National Conferen ce on Advance d Materials and Applicati ons(NCA		Advanced materials	NIT Trichy	2013

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		MA 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. Mitra and Ashis Kumar Panda,	A potential use of magnetic barkhausen emission technique for residual stress analysis in surface mechanical attrition treated iron and steel components,	NDE 2011		NDT	Chennai,	2011
R. Krishnan, T. Arun, R. Justin Joseyphus,	Core-shell magnetic nanoparticles for biomedical applications,	COCHIN NANO2011		Nano	CUSAT	2011
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