



Dr. G. RAVI

Professor & Head

Contact

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Academic Qualifications: M.Sc., M.Phil., Ph.D., PDF (JSPS)

Sl. No	Degree	University/Institution	Year of Passing	Subject	Class/ Grade Obtained
1.	B.Sc.	Bharathidasan University	1986	Physics	First
2.	M.Sc.	Bharathidasan University	1989	Physics	First
3.	M.Phil.	Anna University, Chennai	1990	Physics	First
4.	Ph.D.	Anna University, Chennai	1995	Physics	Highly commended
5.	PDF	Japan Society for Promotion of Science, Japan	Apr.2002- Mar.2004	Physics	
6.	Visiting Professor	Shizuoka University, Japan	Aug. – Nov. 2012	Physics	
7.	Honorable Guest Professor	Shizuoka University, Japan	April 2014	Physics	

Teaching Experience: 22 Years

S.No	Institution	Position	Period	
			From	To
1	Alagappa University	Lecturer, Crystal Research Centre	Feb.1995	Nov.2004
2	Alagappa University	Reader, Dept. of Physics	Dec.2004	Nov.2007
3	Alagappa University	Associate Professor, Dept. of Physics	Dec.2007	Nov. 2010
4	Alagappa University	Professor, Dept. of Physics	Dec. 2010	Till date

Research Experience: 26 Years

Additional Responsibilities

1. **Head**, Department of Physics, Alagappa University, Karaikudi
2. **Dean**, Industry & Consultancy
3. **Member**, Senate, Alagappa University, Karaikudi
4. **Member**, NAAC Steering Committee, Alagappa University, Karaikudi
5. **Member**, Research Advisory Committee, Alagappa University, Karaikudi
6. **Chairman**, Board of Studies, Department of Physics, Alagappa University, Karaikudi
7. **Co-ordinator**, UGC-SAP & DST-FIST **Deputy co-ordinator**, DST-PURSE

Areas of Research

1. Crystal growth of organic & inorganic materials
2. Nano materials synthesis and Thin Films preparation for supercapacitors and sensor applications
3. Opto-electronics and E-O modulator -Devices

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D. Guide/Co-Guide	13/3	5/3
	M.Phil.	36	3
Project	PG	46	4
	UG / Others	-	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
126	111	42	110	3

Cumulative Impact Factor (as per JCR) :	265.62
h-index :	21
i-10 index :	48
Total Citations :	1618

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	TNSC&ST	1997	1999	Fabrication of Electro-Optical devices using DKDP Crystals	1.97
2.	TNSC&ST	1995	1999	Water quality assessment based on crystal of trifluorides of lanthanum	3.60
3.	AICTE	1998	2001	Growth and Characterization of Organic NLO crystals for EO Modulators	10.0
4.	DST	2007	2011	A Venture for Developing Electro-Optic Modulator from DAST Single Crystals	25.0
5.	UGC	2011	2015	Preparation of ZnO nanostructure thin films by spin coating method of spintronic and optical applications	13.0

Combined Department Projects: (Completed)

S. No	Agency	Period		Budget (Rs. In lakh)
		From	To	
1.	UGC-SAP (DRS I)	2004	2009	82.25
2.	UGC-SAP (DRS II)	2009	2014	70.50
3.	DST FIST (Level I)	2005	2009	35.00
4.	DST-PURSE	2011	2014	600.00

Consultancy Projects

S. No	Agency	Period		Project Title	Amount Earned (Rs. in lakhs)
		From	To		
1.	Universities, Colleges, Institutions	2016 (June)	2017 (May)	Consultancies on Characterization	16,46,035

Ongoing Projects (As Co-ordinator)

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC-SAP (DRS III) Co-ordinator	2015	2020	Preparation of crystals, Thin films and Battery materials for devices	105
2	DST FIST Level-II Co-ordinator	2015	2020	Growth and study of different metal oxide thin films for gas sensors and memory devices	144
3	DST-PURSE Deputy co-ordinator	2017	2020	Infrastructure development for all Science Departments	700

Patents

1. Nil

Distinctive Achievements / Awards

1. Senior Research Fellow (SRF)- CSIR, Govt. of India, 1993
2. Young Researcher Award- (IUMRS-ICA), IISc., Bangalore, India, 1998
3. Young Scientist Award- ICCG-13, Kyoto, Japan, 2001
4. Young Invited Researcher Award, Cheju, Korea (ICPOP), 2001
5. Invited Special Researcher, NIMS, Japan, Nov. 2001-March 2002
6. JSPS Award, Japan Society for Promotion of Science, Japan, April 2002-March 2004
7. Invited Special Researcher, NIMS, Japan, June-Nov. 2004
8. Best Researcher Award, Alagappa University, 2005
9. Invited Special Researcher, NIMS, Japan, Jan.- Feb. 2006
10. Visiting Professor, Shizuoka University, Japan, Aug-Nov. 2012
11. Honorable Guest Professor, Shizuoka University, Japan, April 2014

12. Alagappa Excellence Award for Research (2015-2016), Alagappa University, 2016
13. Honorable Guest Professor, Shizuoka University, Japan, April 2016
14. JSPS Invitation Fellowship, Japan, Nov.-Dec. 2016
15. Appreciation Award, Alagappa University, Karaikudi, Feb. 2017

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: **20**

Events Participated (optional)

Conferences / Seminars / Workshops: 221

Other Training Programs : 05

Overseas Exposure / Visits

S.No	Countries Visited	Duration of Visit	Month & Year	Purpose of Visit
1.	Bangladesh	10 days	Oct. 1999	Dhaka, Invited talk in the Int. conference
2.	Japan	14 days	Aug. 2000	Sendai, Invited talk & Chair session in Int. conference (ACCG)
3.	Singapore	2 days	Sep. 2000	National University of Singapore, Lab visit
4.	Japan	7 days	July 2001	Presented papers in ICCG-13 Int. conf. at Kyoto
5.	Korea	12 days	Aug. 2001	Cheju, Invited under Young Scientist Programme
6.	Japan	5 months	Nov.2001 - Mar.2002	Invited Special Researcher, NIMS, Tsukuba
7.	Japan	2 years	Apr.2002- Mar.2004	JSPS Fellow, NIMS, Tsukuba
8.	USA	15 days	Aug. 2002	Seattle, Presented papers in Int. Conference
9.	Canada	2 days	Aug. 2002	Vancouver, Lab visit
10.	Sri Lanka	1 day	Oct. 2002	Columbu, Lab visit
11.	Germany	2 days	June 2003	Bonn Univ., Bonn, Invited lecture
12.	France	4 days	June 2003	Strasburg, Presented papers in MRS Int. Conference
13.	Switzerland	3 days	June 2003	Zurich, Quantum Electronics Lab visit
14.	Malaysia	2 days	Oct. 2003	Kuala Lumpur, Lab visit
15.	Japan	6 months	June- Nov.2004	Invited Special Researcher, (NIMS)
16.	England	3 days	Aug. 2004	Oxford Univ., Lab visit (Clarendon Lab)
17.	Italy	2 days	Aug. 2004	Univ. of Rome, Lab visit

18.	France	4 days	Aug.2004	Grenoble, Presented papers in ICCG
19.	Netherlands	2 days	Aug. 2004	Amsterdam, Lab visit
20.	Belgium	1 day	Aug. 2004	Brussels, Lab visit
21.	Germany	1 day	Aug. 2004	Aachen University, Lab visit
22.	China	15 days	Oct. 2005	Beijing, Papers Presented & Lab visit (CAS)
23.	Japan	2 months	Jan.-Feb. 2006	Invited Special Researcher (NIMS)
24.	Taiwan	3 days	Mar. 2006	Taipei, Delivered lecture (NUT)
25.	Mexico	3 days	Aug. 2010	Mexico city & Cancun, Delivered lectures
26.	Brazil	1 day	Aug. 2010	Sao Paulo, Lab visit
27.	South Africa	2 days	Aug. 2010	Johannesburg, Lab visit
28.	Japan	4 months	Aug.- Nov.2012	Visiting Professor, RIE, Shizuoka University
29.	Australia	4 days	Oct. 2012	Brisbane, Papers Presented & Lab visit, Queensland University
30.	Thailand	2 days	Nov. 2012	Bangkok, Lab visit
31.	Japan	5 days	2014 & 2015	Shizuoka University, Japan, Honorable Guest Professor
32.	Japan	2 months	Nov.-Dec. 2016	Shizuoka University, Japan, JSPS Invitation Fellow

Membership in

Professional Bodies

1. Life member in Indian Crystal Growth Association
2. Life member in Indian Physics Association (IPA)
3. SPIE: International Society for Optical Engg. USA
4. Life member - Indian National Science Congress
5. Life member-Materials Research Society of India (MRSI)
6. Life member-Japan Society for Promotion of Science(JSPS), Japan.
7. Life member-National Institute for Materials Science(NIMS), Japan.

Editorial Board

1. Azhagu News Letter
2. Department News Letter
3. Department Journal

Advisory Board

1. IQAC: Member

Academic Bodies (such as Board of Studies etc.,)

1. Board of Studies-Chairman: M.Sc., Physics, Affiliated colleges, Alagappa University.
2. Board of Studies-Member: B.Sc., Physics, Affiliated colleges, Alagappa University.
3. Board of Studies –Member: M.Sc Physics-MS University, Tirunelveli.

4. Board of Studies –Member: B.Sc., M.Sc. Physics, Lady Doak College, Madurai.
5. Passing Board- Member: B.Sc., Thasim Beevi College for Women, Kilakarai.

Resource persons in various capacities

Number of Invited / Special Lectures delivered: **25**

Others

1. Articles published in Newspapers / Magazines : 3
2. Products developed : 2
3. No. of PhD Thesis evaluated : 26
4. No. of PhD Public Viva Voce Examination conducted : 28
5. Sequences submitted in GenBank : Nil

**Social Interests and Initiatives / Articles in News papers etc can also be included

Recent Publications (Last 5 Years)

S. No	Title of the Article	Author(s)	Name of the journal Vol. No. & Page	International / National	Impact Factor
1.	Physico-chemical properties of pure and zinc incorporated cobalt nickel mixed ferrite ($Zn_xCo_{0.005-x}Ni_{0.005}Fe_2O_4$, where $x = 0, 0.002, 0.004$ M) nanoparticles	B. Jansi Rani R. Mageswari G. Ravi R.Yuvakkumar	Journal of Materials Science Materials in Electronics, (2017) 10.1007/s10854-017-7223-9	I	2.019
2.	Hexamine, PEG-400 effect on α -MoO ₃ nanoparticle synthesis for pseudo capacitance applications	S. P. Ramachandran B. Saravanakumar V. Ganesh G. Ravi A. Sakunthala R. Yuvakkumar	Journal of Materials Science: Materials in Electronics. (2017).doi:10.1007/s10854-017-7223-9	I	IF-2.019
3.	Electrochemical properties of rice-like copper manganese	B. Saravanakumar, S. Muthu Lakshmi,	Journal of Alloys and Compounds 723 (2017)	I	IF-3.13

	oxide (CuMn ₂ O ₄) nanoparticles for pseudocapacitor applications	G. Ravi , V.Ganesh, A. Sakunthala, R. Yuvakkumar	115-122		
4.	Properties of SILAR deposited magnetite (Fe ₃ O ₄) thin films: effect of bath temperatures.,	S. Sheik Fareed N. Mythili G. Vijayaprasath R. Murugan H. Mohamed Mohaideen R. Chandramohan G. Ravi	Journal of Materials Science: Materials in Electronics, (2017)DOI: 10.1007/s10854-017-6687-y	I	IF-2.019
5.	Pure and Co doped CeO ₂ nanostructure electrodes with enhanced electrochemical performance for energy storage applications	R. Murugan, G. Ravi , R. Yuvakkumar, S. Rajendran, N. Maheswari, G. Muralidharan, Y. Hayakawa	Ceramics International (2017) DOI:10.1016/j.ceramint.2017.05.096	I	IF:2.986
6.	Influence of reducing agent concentration on the structure, morphology and ferromagnetic properties of hematite (α -Fe ₂ O ₃) nanoparticles	B. Saravanakumar, B. Jansi Rani, G. Ravi , A. Sakunthala, R. Yuvakkumar.	Journal of Materials Science: Materials in Electronics, (2017) DOI: 10.1007/s10854-017-6515-4	I	IF-2.019
7.	Ni-CeO ₂ Spherical Nanostructures for Magnetic and Electrochemical Supercapacitor Applications	R. Murugan, G. Ravi , G. Vijayaprasath, S. Rajendran, T. Mahalingam, N. Maheswari, G. Muralidharan, Y. Hayakawa.	Physical Chemistry Chemical Physics, 19 (2017) 4396-4404.	I	IF-4.123
8.	Reducing agent (NaBH ₄) dependent structure, morphology and magnetic properties of nickel ferrite (NiFe ₂ O ₄) nanorods	B. Saravanakumar, B. Jansi Rani, G. Ravi , M. Thambidurai, R. Yuvakkumar	Journal of Magnetism and Magnetic Materials, 428 (2017) 78-85.	I	IF-2.630
9.	A green route to synthesis silver nanoparticles using	S. Palanisamy, P. Rajasekar, G.Vijayaprasath,	Materials Letters, 189 (2017) 196-	I	IF-2.572

	Sargassum polycystum and its antioxidant and cytotoxic effects: an in vitro analysis	G. Ravi, R. Manikandan, N.M. Prabhu	200		
10.	Defect Assisted Room Temperature Ferromagnetism on rf Sputtered Mn doped CeO ₂ Thin Films	R. Murugan, G. Vijayaprasath, M. Thangaraj, T.Mahalingam, S. Rajendran, M. Arivanandhan, A.Loganathan, Y. Hayakawa, G. Ravi	Ceramics International, 43 (2017) 399-406	I	IF-2.986
11.	Enzymeless biosensor based on β -NiS@rGO/Au nanocomposites for simultaneous detection of Ascorbic acid, Epinephrine and Uric acid	P.Muthukumar, C.Sumathi, J.Wilson and G.Ravi	RSC Adv., 6 (2016) 96467-96478	I	IF-3.108
12.	Growth and characterization of pure, chloroacetamide and 4-dimethylaminobenzaldehyde doped triglycine sulphophosphate (TGSP) crystals	Golda Louis, A. S. Haja Hameed, C. Karthikeyan, G. Ravi	J Mater Sci: Mater Electron (2016) DOI:10.1007/s10854-016-5708-6	I	IF-2.019
13.	Enhancement of room temperature ferromagnetic behavior of rf sputtered Ni-CeO ₂ thin films	R. Murugan, G. Vijayaprasath, T. Mahalingam, G. Ravi	Applied Surface Science 390 (2016) 583-590	I	IF-3.387
14.	Ultra-small rhenium nanoparticles immobilized on DNA scaffolds: An excellent material for surface enhanced Raman scattering and catalysis studies	S. Anantharaj, K. Sakthikumar, Ayyapan Elangovan, G. Ravi, T. Karthik, Subrata Kundu	Journal of Colloid and Interface Science, 483 (2016) 360-373	I	IF-4.233
15.	Physical vapor deposited highly oriented V ₂ O ₅ thin films for	Shrividhya Thiagarajan, Mahalingam Thaiyan and Ravi	RSC Advances 6, (2016), 82581-82590	I	IF-3.108

	electrocatalytic oxidation of hydrazine	Ganesan			
16.	DNA mediated electrocatalytic enhancement of aFe ₂ O ₃ -PEDOT-C-MoS ₂ hybrid nanostructures for riboflavin detection on screen printed electrode	C. Sumathi, P. Muthukumaran, P. Thivya, J. Wilson and G. Ravi	RSC Advances 6, (2016) , 81500-81509	I	IF-3.108
17.	Optical and magnetic studies on Gd doped ZnO nanoparticles synthesized by co-precipitation method	G. Vijayaprasath, R. Murugan, Y. Hayakawa, G. Ravi	Journal of Luminescence 178, (2016) 375-383	I	IF-2.686
18.	Synthesis of ZnO nanowire arrays on ZnO TiO ₂ mixed oxide seed layer for dye sensitized solar cell applications	T. Marimuthu, N. Anandhan, R. Thangamuthu, M. Mummoorthi, G. Ravi	Journal of Alloys and Compounds 677, (2016) 211-218	I	IF-3.014
19.	3-Carboxy-2-(piperidin-1-ium-1-yl) propanoate	S. Sudhahar, K. Sankaranarayana n, G.Ravi , R.M. Kumar, G. Chakkaravarthi	IUCrData, (2016) x160748	I	
20.	An ultrasensitive electrochemical sensor for simultaneous determination of xanthine, hypoxanthine and uric acid based on Co doped CeO ₂ nanoparticles	N. Lavanya, C. Sekar, R. Murugan, G. Ravi	Materials Science and Engineering: C 65, (2016) 278-286	I	IF-4.164
21.	Photoelectrochemical study of MoO ₃ assorted morphology films formed by thermal evaporation	R. Senthilkumar, G. Anandhababu, T. Mahalingam, G. Ravi	Journal of Energy Chemistry 25 (2016) 798-804.	I	IF-2.594
22.	Defect induced magnetic transition in Co doped CeO ₂ sputtered thin films	R Murugan, G Vijayaprasath, T Mahalingam, G Ravi	Ceramics International 42, (2016) 11724-11731	I	IF-2.986
23.	Studies on the simplified SILAR deposited magnetite (Fe ₃ O ₄) thin films	S Sheik Fareed, N Mythili, H Mohamed Mohaideen,	Journal of Materials Science: Materials in	I	IF-2.019

	annealed at different temperatures	K Saravanakumar, R Chandramohan, G Ravi	Electronics 27 (4), (2016) 3420-3426		
24.	Magnetic evolution in transition metal-doped $\text{Co}_{3-x}\text{M}_x\text{O}_4$ (M= Ni, Fe, Mg and Zn) nanostructures	G.Anandha Babu, G.Ravi	Applied Physics A 122 (2016) , 1-8	I	IF-1.455
25.	Structural characterization and magnetic properties of Co co-doped Ni/ZnO nanoparticles	G Vijayaprasath, R Murugan, S Asaithambi, G Anandha Babu, P Sakthivel, T Mahalingam, Y Hayakawa, G Ravi	Applied Physics A 122 (2016) , 1-11	I	F-1.455
26.	In vitro antibacterial activity of ZnO and Nd doped ZnO nanoparticles against ESBL producing Escherichia coli and Klebsiella pneumoniae	Abdulrahman Syedahamed Haja Hameed, Chandrasekaran Karthikeyan, Abdulazees Parveez Ahamed, Nooruddin Thajuddin, Naiyf S Alharbi, Sulaiman Ali Alharbi, Ganasan Ravi	Scientific reports, 6 (2016) 24312.	I	IF-4.259
27.	Au-Pd bimetallic nanoparticles anchored on $\alpha\text{-Fe}_2\text{O}_3$ nonenzymatic hybrid nanoelectrocatalyst for simultaneous electrochemical detection of dopamine and uric acid in the presence of ascorbic acid	C Sumathi, CV Raju, P Muthukumaran, J Wilson, G Ravi	Journal of Materials Chemistry B 4 (2016) 2561-2569	I	IF-4.543
28.	Cerium doped nickel-oxide nanostructures for riboflavin biosensing and antibacterial applications	P Muthukumaran, Chikkili Venkateswara Raju, C Sumathi, G Ravi , D Solairaj, P Rameshthangam, J Wilson, Sathish Rajendran,	New Journal of Chemistry 40 (2016) 2741-2748	I	IF-3.269

		Subbiah Alwarappan			
29.	Role of nickel doping on structural, optical, magnetic properties and antibacterial activity of ZnO nanoparticles	G. Vijayaprasath, R. Murugan, S. Palanisamy, N.M. Prabhu, T. Mahalingam, Y. Hayakawa, G. Ravi	Materials Research Bulletin 76, (2016) 48-61	I	IF- 2.446
30.	Structural and magnetic behavior of Ni/Mn co-doped ZnO nanoparticles prepared by co-precipitation method	G. Vijayaprasath, R. Murugan, S. Asaithambi, P. Sakthivel, T. Mahalingam, Y. Hayakawa, G. Ravi	Ceramics International 42 (2), (2016) 2836-2845	I	IF- 2.986
31.	Studies on growth and characterization of heterogeneous tungsten oxide nanostructures for photoelectrochemical and gas sensing applications	R. Senthilkumar, T. Mahalingam, G. Ravi	Applied Surface Science 362, (2016) 102- 108	I	IF- 3.387
32.	Influence of organic dopants on the optical properties of 4N, N' dimethylaminoN'-methyl stilbazolium tosylate crystals	A.S.H Hameed, C. Karthikeyan, S.A. Nisha, G. Louis, G. Ravi	Optik- International Journal for Light and Electron Optics (2016)	I	IF- 0.835
33.	Room temperature ferromagnetism of Ni doped cerium oxide single crystalline thin Films deposited by using rf magnetron sputtering	R. Murugan, G. Vijayaprasath, T. Mahalingam, G. Ravi	Materials Letters 162, (2016) 71-74	I	IF- 2.572
34.	Preparation of highly oriented Al:ZnO and Cu/Al:ZnO thin films by sol-gel method and their characterization	G. Vijayaprasath, R. Murugan, T. Mahalingam, Y. Hayakawa, G. Ravi	Journal of Alloys and Compounds 649, (2015) 275-284	I	IF- 3.133
35.	Physical property exploration of highly oriented V ₂ O ₅ thin films prepared by electron beam evaporation	T. Shrividhya, T. Mahalingam, G. Ravi	New Journal of Chemistry, 39, (2015) 9471- 9479	I	IF- 3.269

36.	Structural, optical and antibacterial activity studies of neodymium doped ZnO nanoparticles	G. Vijayaprasath, R. Murugan, S. Palanisamy, N. M. Prabhu, T. Mahalingam, Y. Hayakawa, G.Ravi	J Mater Sci: Mater Electron, 26 (10), (2015) 7564-7576	I	IF-2.019
37.	Comparative study of structural and magnetic properties of transition metal (Co, Ni) doped ZnO nanoparticles,	G. Vijayaprasath, R. Murugan, T. Mahalingam, G.Ravi.	J Mater Sci: Mater Electron, 26 (9), (2015) 7205-7213	I	IF-2.019
38.	Riboflavin detection by $\alpha\text{Fe}_2\text{O}_3$ / MWCNT/ Au NPs based composite and a study of the interaction of riboflavin with DNA	C. Sumathi, P. Muthukumar, S. Radhakrishnan, G. Ravi , J. Wilson	RSC Advances 5 (23), (2015) 17888-17896	I	IF-3.108
39.	The influence of substrate temperature on the optical and micro structural properties of cerium oxide thin films deposited by RF sputtering	R. Murugan, G. Vijayaprasath, G.Ravi	Superlattices and Microstructures, 85, (2015) , 321-330.	I	IF-2.123
40.	Quantification of ferromagnetism in metal doped NiO nanostructures	G.Anandha babu, G.Ravi	Materials Letters, 161, (2015) 149-152	I	IF-2.572
41.	Enhancement of Ferromagnetic Property in Rare Earth Neodymium Doped ZnO Nanoparticles	G. Vijayaprasath, R. Murugan, T. Mahalingam, Y. Hayakawa, G.Ravi	Ceramics International, 41 (9A), (2015) 10607-10615	I	IF-2.986
42.	Glucose sensing behavior of cobalt doped ZnO nanoparticles synthesized by co-precipitation method	G. Vijayaprasath, R. Murugan, J. Shankara Narayanan, V. Dharuman, Y. Hayakawa, G.Ravi	Journal of Materials Science: Materials in Electronics, 26, (2015) 4988-4996	I	IF-2.019
43.	Third Order Nonlinear Optical Properties and Optical Limiting Behavior of Alkali Metal Complexes of p	M.Thangaraj, G. Vinitha, T.C.Sabari Girisun, P.Anandan, G.Ravi	Journal of Optics & Laser Technology, 73 (2015) 130-134.	I	IF-2.109

	Nitrophenol				
44.	Ethylenediaminium di(4-nitrophenolate): A third order NLO material for optical limiting applications	M. Thangaraj, T.C. Sabari, Girisun, G. Vinitha and A. Loganathan, G.Ravi	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 138, (2015) , 158–163.	I	IF-2.536
45.	Surfactant mediated one and two dimensional ZnO nanostructured thin films for dye sensitized solar cell application	T. Marimuthu, N. Anandhan, R. Thangamuthu, M. Mummoorthi, S. Rajendran, G. Ravi	Materials Research Express 2 (1), (2015) 015502	I	IF-1.068
46.	Effect of rf power on the properties of magnetron sputtered CeO ₂ thin films	R. Murugan, G. Vijayaprasath, T. Mahalingam, Y. Hayakawa, G.Ravi	Journal of Materials Science: Materials in Electronics, 26, (2015) , 2800.	I	IF-2.019
47.	Determination of gas sensing properties of thermally evaporated WO ₃ nanostructures	R. Senthilkumar, C. Sekar, M. Arivanandhan, M. Navaneethan and Y. Hayakawa, G.Ravi	Journal of Materials Science: Materials in Electronics, 26, (2015) , 1389.	I	IF-2,019
48.	Microwave synthesis and magnetic investigations of surfactant assisted NiO nanostructures	G.Anandha babu, Y.Hayakawa, G.Ravi	Matt. Lett., 149, (2015) , 54.	I	IF-2.572
49.	Influence of Microwave Power on preparation of NiO Nanoflakes for enhanced Magnetic and Super capacitor Applications	G.Anandha babu, T.Mahalingam, M. Kumaresavanji, Y.Hayakawa, G.Ravi	Dalton Transaction, 44, (2015) , 4485.	I	IF-4.029
50.	Microwave synthesis and effect of CTAB on ferromagnetic properties of NiO, Co ₃ O ₄ and NiCo ₂ O ₄ nanostructures	G.Anadha babu and Y.Hayakawa, G.Ravi	Appl. Phys. A, 119, (2015) , 219.	I	IF-1.455
51.	Synthesis and calcinations effects on size analysis of Co ₃ O ₄ nanospheres and their superparamagnetic	G.Anandhababu, Y.Hayakawa, M. Kumaresavanji, G.Ravi	Journal of Magnetism and Magnetic Materials, 375, (2015) , 184.	I	IF-2.630

	behaviors				
52.	Size and Surface Effects of Ce-doped NiO, and Co ₃ O ₄ Nanostructures on Ferromagnetism Behavior Prepared by Microwave Route	G.Anandhababu, T.Mahalingam M.Navaneethan, M.Arivanandhan, Y.Hayakawa, G.Ravi	J. Phys. Chem. C, 118, (2014) , 23335–23348.	I	IF-4.536.
53.	An Investigation of Flower Shaped NiO Nanostructures by Microwave and Hydrothermal Route	G.Anandhababu, M.Navaneethan, M.Arivanandhan, Y.Hayakawa, G.Ravi	Journal of Materials Science: Materials in Electronics, 25, (2014) , 5231–5240	I	IF-2.019
54.	Characterization of dilute magnetic semiconducting transition metal doped ZnO thin films by sol-gel spin coating method	G.Vijayaprasath, R.Murugan, T.Mahalingam, Y. Hayakawa, G.Ravi	Applied surface science, 313, (2014) , 870-876.	I	IF-3.387
55.	Ethylenediaminium di(2-nitrophenolate) single crystals as materials for optical second harmonic generation	M. Thangaraj, T.C.Sabari Girisun, G.Ravi	Physica B Condensed mater, 449, (2014) , 209–213.	I	IF-1.352
56.	Effect of Cobalt Doping on Structural, Optical, and Magnetic Properties of ZnO Nanoparticles Synthesized by Coprecipitation Method	Vijayaprasath Gandhi, Haja Hameed Abdulrahman Syedahamed, Mahalingam Thaiyan, Ravi Ganesan	J. Phys. Chem. C, 118, (2014) , 9715–9725.	I	IF-4.536
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61.	Effect of annealing on optical and structural properties of ZnS/MnS and MnS/ZnS superlattices thin films for solar energy application	J. Yuvaloshini, Ra.Shanmugavadi vu, G. Ravi	Optik-International Journal for Light and Electron Optics, 125, (2014) , 1775-1779.	I	IF-0.835
62.	Ionic-strength induced control of the shape and the aspect ratio of ZnO nano-structures prepared by using the hydrothermal process	S.D.Gopal Ram, T.W.Gang, G. Ravi	Journal of the Korean Physical Society, 63, (2013) , 214-217.	I	IF-0.467
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71.	Structural, morphological and optical properties of CeO ₂ thin films deposited by RF sputtering	R. Murugan, G. Vijayaprasath, P. Sakthivel, T. Mahalingam, and	AIP Conference Proceedings 1731,	I	978-0-7354-1378-8

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72.	Deposition and Characterization of ZnO/NiO Thin Films	G. Vijayaprasath, P. Sakthivel, R. Murugan, T. Mahalingam, and G. Ravi	AIP Conference Proceeding s 1731, 080033 (2016) , Doi: 10.1063/1. 4947911	I	978-0- 7354- 1378-8
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