Dr. G. RAVI

Professor & Head

Contact

Address : Department of Physics
Alagappa University
Karaikudi – 630003
Tamil Nadu, INDIA
Employee Number : 11403
Contact Phone (Office) : +91 4565230251
Contact Phone (Mobile) : +91 9443408720
Contact e-mail(s) : ravig@alagappauniversity.ac.in, raviganesa@rediffmail.com,

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

Sl. No	Degree	University/Institution	Year of Passing	Subject	Class/ Grade Obtained
1.	D.Sc.,	Alagappa University, Karaikudi	November 2018	Physics	Highly commended
2.	Ph.D.	Anna University, Chennai	1995	Physics	Highly commended
3.	M.Phil.	Anna University, Chennai	1990	Physics	First Class
4.	M.Sc.	Bharathidasan University	1989	Physics	First Class
5.	B.Sc.	Bharathidasan University	1986	Physics	First Class
6.	PDF (JSPS)	National Institute for Materials Science, Japan	Apr.2002-Mar.2004	Physics	JSPS Award
7.	Visiting Professor	Shizuoka University, Japan	Aug. – Nov. 2012	Physics	

8.	Senior PDF (JSPS)	Shizuoka University, Japan	Nov.-Dec. 2016	Physics	
9.	Honorable Guest Professor	Shizuoka University, Japan	April 2014 April 2016 April 2018 April 2019	Physics	

Teaching Experience: 26 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: 30 Years

Additional Responsibilities

1. **Head,** Department of Physics, Alagappa University, Karaikudi
2. **Dean,** Industry & Consultancy
3. **Chairperson,** School of Physical Sciences : 01.06.2019-Till date
4. **Member,** Senate, Alagappa University, Karaikudi
5. **Member,** NAAC Steering Committee, Alagappa University, Karaikudi
6. **Member,** Research Advisory Committee, Alagappa University, Karaikudi
7. **Chairman,** Board of Studies, Department of Physics, Alagappa University, Karaikudi
8. **Co-ordinator,** UGC-SAP & DST-FIST **Deputy co-ordinator,** DST-PURSE
9. **Institute Co-ordinator,** UGC-SPARC

Areas of Research

1. Crystal growth of organic & inorganic materials
2. Nano materials synthesis and Thin Films preparation for supercapacitors, Photocatalytic, sensor and solar cell applications

3. Opto-electronics and E-O modulator –Devices

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	PDF	2	--
	Ph.D. Guide/Co-Guide	16/3	4/3
	M.Phil.	47	2
Project	PG	52	--
	UG / Others	-	-

Publications

Journals		Conferences		Others
International	National	International	National	Books / Chapters / Monographs / Manuals
240	63	164	147	4

h-index : 33
i-10 index : 109
Total Citations : 4163

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 triflurides 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

Consultancy Projects

S. No	Agency	Period		Project Title	Amount Earned (Rs.)
		From	To		
1.	Universities, Colleges, Institutions	2007 (June)	2020 (Septembar)	Consultancies on Characterization	1,30,26,418

Ongoing Projects

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	2016	2021	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
4	DST-SERB (EMR)	2018	2021	Graphene oxide decorated metal oxide thin films on flexible substrates for high performance electrochromic and super capacitors applications	35.6
5	MHRD-RUSA	2018	2020	Advanced Materials for Sustainable Energy and Sensors	5.00

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
16. Honorable Guest Professor, Shizuoka University, Japan, April 2018
17. Honorable Guest Professor, Shizuoka University, Japan, April 2019

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: **30**

Events Participated (optional)

Conferences/ Seminars / Workshops: 311

Other Training Programs : 06

Overseas Exposure / Visits

S.No	Countries Visited	Duration of Visit	Month & Year	Purpose of Visit
1.	Bangaladesh	10 days	Oct. 1999	Dhaka, Invited talk in the Int. conference
2.	Japan	14 days	Aug. 2000	Tohuku University, 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-	JSPS Fellow, NIMS, Tsukuba

			Mar.2004	
8.	USA	15 days	Aug. 2002	Seatle, Presented papers in Int. Conference
9.	Canada	2 days	Aug. 2002	Vancover, 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 Internatinal 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), Tsukuba
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
33.	Australia	7 days	Feb- Mar. 2019	Monash University, Australia , LEAP (MHRD) Program.
34.	Spain	3 days	Sep 23-25, 2019	Invited Talk on 6th Int.Conference on Photonics (PHRONESIS), Barcelona.

Keynote Address/ Plenary Lectures:

S.No	Name of the Programme	Organiser of the Programme	Level: International/National	Date
1.	One Week Online International Faculty Development Programme on New Directions in Applied Science and Technology	Arunai International Research Foundation In Association with Department of Mathematics, Annamalai University and Elsevier	I	1-7 July 2020
2.	Indian summer school on crystal growth (ISSCG-2020)	SSN College of Engineeing, Chennai.	N	14-23 May 2020
3.	National Seminor on Advanced materials and its applications	Karpagam Academy of Higher educatuion	N	5-6 March 2020
4.	National Conference on Recent Trends in Advanced Materials and Characterization (RTAMC-2020)	VSM Group of Institutions, Ramachandrapuram, Andhra Pradesh	N	January 29-30 2020
5.	World Congress on Lasers, optics and Photonics (6th Conference PHRONESIS)	Phronesis Research World, Barcelona, Spain	I	23-25 September 2019
6.	23rd National seminor on crystal growth and applications.	Bharathiar University Coimbatore	N	28- 30 January 2019
7.	National Conference on recent trends in Physics of materials -2018 (NCRTPM-2018)	Pachayappa's College, Chennai.	N	23 Feb 2018
8.	State level conference on Materials based research work in nano technology	Sri Paramakalyani College, Alwarkurichi	N	9-10 Feb 2018
9.	22nd National seminor on crystal growth and applications(XXII NSCGA-2018)	Sacred Heart College, Tirupathur	N	29-31 Jan 2018
10.	4th International	SRM University,	I	9-11 August

	Conference on Nanoscience and Nano technology(ICONN 2017)	Chennai		2017
11.	Special Lecture presentation at Nagoya Institute of Technology	Nagoya, Japan	I	Dec. 2 2016
12.	The 18th Takayanagi Kenjiro Memorial Symposium toward Advanced Imaging Science Creation	Shizuoka University, Japan	I	Nov. 15-16 2016
13.	International Symposium toward the Future of Advanced Researches in Shizuoka University, Japan	Shizuoka University, Japan	I	Jan. 27-28, 2015
14.	International intradiciplinary Conference on the Frontier of Crystallography (IICFC)	Mangalore University, India	I	Dec. 29-30 2014
15.	Industry and Consultancy Cell & Centre for University Business Collaboration	Alagappa University, Karaikudi	I	Apr. 28 2014
16.	National Conference on Adavnced Materials and its Applications (NCAMA-2014)	Annamalai University, Tamilnadu	N	Apr. 4 & 5 2014
17.	International Conference on Materials and Characterization Techniques	VIT University, Vellore	I	Mar 10-12, 2014
18.	National Conference on Recent Advances in Nanomaterials for Sensor Applications (NANOSE-14)	Dept. Bioelectronics & Biosensors Alagappa University, Karaikudi	N	Mar 6-7, 2014
19.	International Workshop on Advanced Materials (IWAM-14)	Department of Physics Alagappa University, Karaikudi	I	Mar. 2014
20.	XVIII National Seminar on Crystal Growth	SSN College of Engineering, Tamil nadu	N	Feb 24-26, 2014

21.	Improving Device Characteristics of Optical Crystals	Central University of Tamilnadu, Thiruvarur.	N	Feb 24-26, 2014
22.	National Conference on Recent Trends in Advanced Materials (NCRTAM-13)	PSG college of Technology, Coimbatore	N	Dec 16-17, 2013
23.	A special lecture on Optical Crystals	Karunya University, Coimbatore	N	Dec.17, 2013
24.	International Workshop on Crystal Growth and Characterization of Advanced Materials	Anna University, Chennai	I	18-19, Dec. 2013
25.	National conference on Crystal growth	Anna University, Chennai	N	July 24- 26, 2013
26.	National Seminar on Recent Trends in Crystal Growth & Nanomaterials (NSCGNM-2013)	PG and Research Department of Physics, National College, Trichy	N	Mar 13-15, 2013.
27.	International Conference on Recent Trends in Advanced materials (ICRAM-2012)	VIT University, Tamilnadu	I	Feb 20-22 2012
28.	Recent Trends in Functional Materials (FUNMAT-12)	Ultra College of Engineering and Technology	N	Feb 17, 2012
29.	International Conference on Advanced Materials (ICAM-2011)	PSG College of Technology, Coimbatore	I	Dec 12-16 2011
30.	International conference on advancement of Nanoscience and nanotechnology (ICOANN -2010)	Department of Nanoscience and nanotechnology, Alagappa university Karaikudi	I	Feb. 2010
31.	National conference on recent trends in advanced energy materials	Department of Physics, Alagappa University, Karaikudi	N	March 2010
32.	One day conference on Nano materials	Dept. of Electrical Eng., Cinvestav, Mexico city, Mexico	I	Aug 12, 2010
33.	International Union of	Cancun, Mexico	I	Aug. 13-14,

	Materials Research Science Conference			2010
34.	National conference on recent trends in crystal growth,thin films and nano structured materials	Department of Physics, Aditanar college of Arts and Science, Tiruchendur	N	Aug. 5–6, 2009
35.	A special lecture onOptical data storage using MnSLN	National Taiwan University, Taipei.	I	Feb 19-21 2006
36.	Asian Conference on Crystal Growth	Chinese Academy Sciences, Beijing, China	I	21.10.2005
37.	A special Invited Lecture	Bonn Univ., Bonn, Germany	I	June 2003
38.	Asian Conference on Crystal Growth and Crystal Technoogy	Kyoto University, Kyoto, Japan	I	July 2001
39.	Invited under Young Scientist Programme	Cheju, South Korea	I	August 2001
40.	Asian Conference on Crystal Growth and Crystal Technoogy	Tohuku University, Sendai, Japan	I	Aug 29 - Sep 1, 2000
41.	International Conference on Materials Science	Dhaka, Bangladesh	I	Oct 23-27 1999

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.
8. Life member-Bose Science Society -India

Editorial Board

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

Advisory Board

1. Internal Quality Assurance Cell (IQAC): Member
2. Intelectual Property and Patent Cell : Member
3. Instrumentation Centre : 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-Chairman: M.Sc., Physics (Regular & DDE), Alagappa University.
3. Board of Studies-Member: B.Sc., Physics, Affiliated colleges, Alagappa University.
4. Board of Studies –Member: M.Sc Physics-MS University, Tirunelveli.
5. Board of Studies –Member: M.Sc Physics-Bharathidasan University, Trichy.
6. Board of Studies –Member: M.Sc Physics-Bharathiar University, Coimbatore.
7. Board of Studies –Member: M.Sc Physics-Periyar University, Salem.
8. Board of Studies –Member: M.Sc Physics-Annamalai University, Chidambaram.
9. Board of Studies –Member: M.Sc Physics-Madurai Kamaraj University, Madurai.
10. Board of Studies –Member: B.Sc., M.Sc. Physics, Lady Doak College, Madurai.
11. Passing Board- Member: B.Sc., Thasim Beevi Collegefor Women, Kilakarai.

Resource persons in various capacities

Number of Invited / Special Lectures delivered: **42**

Others

1. Articles published in Newspapers / Magazines : 3
2. Products developed : 2
3. No. of PhD Thesis evaluated : 50
4. No. of PhD Public Viva Voce Examination conducted : 54

Conferences / Seminars / Workshops organized (National / International) in leading
Conferences / Seminars / Workshops organized (National / International) in leading roles:

- ACT NEXT :Noble prize in Physics 2019 at Department of Physics, Alagappa University on 28th August 2020.
- Indo-UK International Virtual Conference on Advanced Nanomaterials for Energy and Environmental Applications (ICANEE-2020), 16–18, September 2020.
- International Virtual Conference on Recent Trends in Energy Material (INCRTEM-2020), Alagappa University, Karaikudi, 9-11, September, 2020.
- One Day International Webinar on Advances in Materials Science, Alagappa University, Karaikudi 10, June,2020.
- Webinar entitled (i) Ideas and Implementation for Innovation and Incubation and (ii) Sun Our Nearest Star" organised by the Department of Physics, Alagappa University, Karaikudi on 13.05.2020.
- International Conference on Advanced Materials for Sustainable Energy and Sensors (INCAMSES-2019), Alagappa University, Karaikudi 16-17 September, 2019
- ACT NEXT :Noble prize in Physics 2018 at Department of Physics, Alagappa University on 5th April 2019
- National conference on Advanced materials for sustainable Energy and sensors (NCAMSES – 2019), Alagappa University, Karaikudi 20-22 March 2019.
- ACT NEXT :Noble prize in Physics 2017 at Department of Physics, Alagappa University on 28th March 2018.
- International Conference on momentous role of nanomaterials in renewable energy devices (IC MNRE 2018), Alagappa University, Karaikudi 1-2 March 2018
- Business Oriented Analytical Research and Development (BOARD-2018) at Department of Physics, Alagappa University during 31st January – 1st February 2018.
- National Conference on Futuristic Materials (NCFM-2017) at Department of Physics, Alagappa University during 27 & 28th March 2017.
- National Theme Meet on University- Industry Interface 2017 (NTM U21-2017) Alagappa University during 20th September 2017.
- ACT NEXT :Noble prize in Physics 2016 at Department of Physics, Alagappa University on 28th April 2017.
- Business Oriented Hands-on Training on Analytical Instrumentation (HI-BOAT-2017) at Department of Physics, Alagappa University during 2nd& 3rd March 2017.
- National Seminar on Synthesis, Characterization and Applications of Advanced Materials (AMR-2017) at Department of Physics, Alagappa University during 19 January 2017.
- Organized a National Seminar on “Recent Advancements in Frontier Areas of Materials Science” at Department of Physics, Alagappa University, Karaikudi, during 23-24th March, 2016.
- Alagappa University Celebrates Themed Nobel Excellence Talks – 2015 ACT NEXT-2015, at Department of Physics, Alagappa University on 18th March 2016.

- International Workshop on Advanced Materials -2014 (IWAM2014) at Department of Physics, Alagappa Universityduring 20-21 March 2015.
- National Workshop on Characterization Techniques (NWCT-2, 2013) at Department of Physics, Alagappa University during 24 & 26, March 2013.
- National Workshop on Characterization Techniques(NWCT-1, 2012) at Department of Physics, Alagappa University during 24 & 26, March 2012.
- International Workshop on Advanced Energy Materials (IWAEM-2012) at Department of Physics, Alagappa University during 9-10, February 2012.
- State Level Workshop on Structure solving by Powder X-ray diffraction (SLWSSP-XRD 2011) at Department of Physics, Alagappa University during 26-27, July 2011.
- National Conference on Recent Trends in Advanced Energy Materials at Department of Physics, Alagappa University during 10th& 11th March, 2010.
- Organized a National Workshop on "Theory and Practice of XRD Techniques" as a member of organizing committee in the School of Physics, Alagappa University during July13-17,2009.
- National Workshop on "Crystal Growth and Characterization" at Department of Physics, Alagappa University on March 16, 2009.
- National Workshop on "Recent Advances in Materials Science" at Department of Physics, Alagappa University on March 07, 2008
- XXX Indian social Science Congress, at Department of Physics, Alagappa University during 27- 31 December 2006
- National Seminar on Recent trends in Materials Science, at Department of Physics, Alagappa University on 3rd May, 1999.

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.	Elevated energy density and cycle stability of α-Mn_2O_3 3D-microspheres with addition of neodymium dopant for pouch-type hybrid supercapacitors	M.Karuppaiah P.Sakthivel, S.Asaithambi, L.KrishnaBharat, GoliNagaraju, TansirAhamad, K.Balamurugan, R.Yuvakkumar, **G.Ravi**	Electrochimica Acta 362 **(2020)** 137169.	I	IF: 6.216

2.	Iron doped vanadium sulfide anemone like nanorod structure for electrochemical water oxidation	S Swathi, R Yuvakkumar, **G Ravi**, SI Hong, E Sunil Babu, Dhayalan Velauthapillai, Tahani Saad Algarni, Amal M Al-Mohaimeed	Current Applied Physics, 2020	I	IF: 2.281
3.	Facile Synthesis and Defect Optimization of Hexagonal 2D- Layered MoS2 Decorated on Spherical Shape TiO2 Heterojunction Nanostructure for the Decomposition of Industrial Effluent from Waste Water	G.Ramalinkam, C.Maria Magdalane, B.Arjunkumar, Naresh Kumar Rotte, Joice Sophia Ponraj, **G.Ravi**, Atanas Ivanov, Nadarajah Manivannan, M. Rajesh Kumar, Joao Gaspar	Scientific Reports (2020)	I	IF: 3.998
4.	Biomedical application of single anatase phase TiO 2 nanoparticles with addition of Rambutan (Nephelium lappaceum L.) fruit peel extract	M Isacfranklin, R Yuvakkumar, **G Ravi,** P Kumar, B Saravanakumar, Dhayalan Velauthapillai, Tahani Awad Alahmadi, Sulaiman Ali Alharbi	Applied Nanoscience, 2020	I	IF: 3.198
5.	Morphological exploration of chemical vapor–deposited P-doped ZnO nanorods for efficient photoelectrochemical water splitting	S.Swathi, R.Yuvakkumar, G.Ravi, E. SunilBabu, Dhayalan Velauthapillai, Sulaiman AliAlharbid	Ceramics International, https://doi.org/10.1016/j.ceramint.2020.10.237	I	IF: 3.640

6.	Silver-doped cadmium sulfide for electrochemical water oxidation	Srinivasan Swathi, Rathinam Yuvakkumar, **Ganesan Ravi,** Eadi Sunil Babu, Dhayalan Velauthapillai, Asad Syed, Turki MS Dawoud	Applied Nanoscience, 2020	I	IF: 3.198
7.	Heterostructured $SmCoO_3$/rGO composite for high energy hybrid supercapacitors	M.IsacFranklin, **G.Ravi,** Rathinam Yuvakkumar, SI Hong, Dhayalan Velauthapillai, M Thambidurai**,** Cuong Dong, Amal M Al-Mohaimeed, Tahani Saad Algarni	Carbon (2020)	I	IF: 8.821
8.	Low-temperature synthesis of micro- and nano-crystalline CuFeS2 polymorphs	Balamurugan Karuppannan, Jacqueline L.Sturgeon, Kristin L.Bunker, Karen E.Harris, **Ravi Ganesan**, Jennifer A.Aitken	SN Applied Sciences (2020) 2:1931 https://doi.org/10.1007/s42452-020-03729-4	I	---
9.	Marigold flower like structure Cu_2NiSnS_4 electrode for high energy asymmetric solid state supercapacitors	M.IsacFranklin, **G.Ravi,** Rathinam Yuvakkumar, SI Hong, Dhayalan Velauthapillai, M Thambidurai	Scientific Reports (2020)	I	IF: 3.998
10.	Improving interfacial contact between zinc oxide and mixed cation perovskite using carbon nanotubes for ambient-	Mustafa K. A. Mohammed, Masoud Dehghanipour, Umer Younis,	New J. Chem., (2020) https://doi.org/10.1039/D0	I	IF: 3.288

	air processed perovskite solar cells	Ahmed Esmail Shalan, P. Sakthivel, **G. Ravi,** Pravin H. Bhoite and Jan Pospisil	NJ04656F		
11.	High performance $MnSn(OH)_6$ electrodes for energy conversion application	B Jansi Rani, R Yuvakkumar, **G Ravi,** P Kumar, E Sunil Babu, B Saravanakumar, Dhayalan Velauthapillai	Materials Letters 282, (2021)128888	I	IF-3.204
12.	Electrochemical Oxygen Evolution Reaction Activity of Tin Sulfide Nanostructures	Subramanian Keerthana, Balasubramanian Jansi Rani, Rathinam Yuvakkumar, **Ganesan Ravi**, Sun Ig Hong, Balasubramaniam Saravanakumar, Dhayalan Velauthapillai, Amal M Al-Mohaimeed, Tahani Saad Algarni	Chemistry Select 37(2020) 11703-11707	I	IF: 1.81
13.	Synthesis and characterization of various transition metals doped SnO_2@MoS_2 composites for supercapacitor and photocatalytic applications	S Asaithambi, P Sakthivel, M Karuppaiah, K Balamurugan, R Yuvakkumar, M Thambidurai**, G Ravi**	Journal of Alloys and Compounds 2020, 157060	I	IF: 4.65

14.	Anti-cancer applications of Zr, Co, Ni-doped ZnO thin nanoplates	M Sangeetha Vidhya, Fuad Ameen, Turki Dawoud, R Yuvakkumar, **G Ravi,** P Kumar, Dhayalan Velauthapillai	Materials Letters, 2020, 128760	I	IF-3.204
15.	Investigation on copper based oxide, sulfide and selenide derivatives oxygen evolution reaction activity	B. Jansi Rani, **G. Ravi,** R. Yuvakkumar, Dhayalan Velauthapillai, B. Saravanakumar & Amal M. Al-Mohaimeed	Appl Nanosci (2020). https://doi.org/10.1007/s13204-020-01531-7	I	IF: 2.88
16.	Energy storage performance of $CoNiSe_2$ nanostructures	M.Sangeetha Vidhya, **G.Ravi,** R.Yuvakkumar, M.Thambidurai, CuongDang, MehboobaliPannipara, Abdullah G.Al-Sehemi, Dhayalan Velauthapillai	Materials Letters, 279, (2020), 128485	I	IF-3.204
17.	Nickel, bismuth, and cobalt vanadium oxides for supercapacitor applications	M.Isacfranklin, C.Deepika, **G.Ravi,** R.Yuvakkumar, Dhayalan Velauthapillai, B.Saravanakumar	Ceramics International (2020) https://doi.org/10.1016/j.ceramint.2020.07.320	I	IF-3.83
18.	Fabrication of Gd_2O_3 Nanosheet-Modified Glassy Carbon Electrode for	Gandhi Vijayaprasath, Imran Habibulla, Venkataraman	ACS omega 5 (2020)	I	IF-2.87

	Nonenzymatic Highly Selective Electrochemical Detection of Vitamin B2	Dharuman, Subramanian Balasubramanian, **Ravi Ganesan**	17892-17899		
19.	Synthesis of highly active biocompatible ZrO_2 nanorods using a bioextract	M.Isacfranklin, TurkiDawoud, FuadAmeen, **G.Ravi,** R.Yuvakkumar, P.Kumar, S.I.Hong, Dhayalan Velauthapillai, B.Saravanakumar	Ceramics International (2020) https://doi.org/10.1016/j.ceramint.2020.07.076	I	IF-3.83
20.	Efficient and stable planar perovskite solar cells using co-doped tin oxide as the electron transport layer	P.Sakthivel, Shini Foo, M Thambidurai, PC Harikesh, Nripan Mathews, R Yuvakkumar, **G Ravi,** Cuong Dang	Journal of Power Sources, 471 (2020) 228443.	I	IF: 8.25
21.	Nickel–cobalt hydroxide: a positive electrode for supercapacitor applications	M Sangeetha Vidhya, **G Ravi**, R Yuvakkumar, Dhayalan Velauthapillai, M Thambidurai, Cuong Dang, B Saravanakumar	RSC Advances, 10(33), (2020), 19410-19418.	I	IF-3.049
22.	Hydrothermal Method–Derived $MnMoO_4$ Crystals: Effect of Cationic Surfactant on Microstructures and Electrochemical Properties	Melkiyur Isacfranklin, Balasubramaniam Jansi Rani, **G. Ravi,** Rathinam Yuvakkumar, Sun Ig Hong , Dhayalan Velauthapillai, Balasubramaniam	Chemistry select, 5, 2020 7728-7733.	I	IF: 1.811

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23.	Cancer targeting potential of bioinspired chain like magnetite (Fe_3O_4) nanostructures	S Swathi, Fuad Ameen, **G Ravi,** R Yuvakkumar, SI Hong, Dhayalan Velauthapillai, Muneera DF AlKahtani, M Thambidurai, Cuong Dang	Current Applied Physics, 20, (2020), 982-987	I	IF: 2.28
24.	In situ hydrothermal growth of SnS/Ni foam for electrochemical energy storage and conversion	B Jansi Rani, SP Keerthana, **G Ravi**, R Yuvakkumar, Dhayalan Velauthapillai, M Thambidurai, Cuong Dang	Materials Letters, 273(2020), 127958,	I	IF-3.204
25.	Photoelectrochemical activity of copper vanadate nanostructures	B Jansi Rani, **G Ravi**, R Yuvakkumar, M Praveen Kumar, S Ravichandran, Dhayalan Velauthapillaic, M Thambidurai, Cuong Dang	Materials Letters, 274(2020), 127996.	I	IF-3.204

26.	Y_2O_3 nanorods for cytotoxicity evaluation	M Isacfranklin, Fuad Ameen, **G Ravi**, R Yuvakkumar, SI Hong, Dhayalan Velauthapillai, Muneera DF AlKahtani, M Thambidurai, Cuong Dang	Ceramics International, 46, (2020) 20553-20557	I	IF-3.83
27.	Ni supported anorthic phase $FeVO_4$ nanorods for electrochemical water oxidation	B Jansi Rani**,** **G Ravi**, R Yuvakkumar, P Kumar, SI Hong, Dhayalan Velauthapillai, M Thambidurai, Cuong Dang	Materials Letters, (2020), 128091	I	IF-3.204
28.	Portable Network Graphics Approach to the Authentication of Halftone Images with Henon Map Encryption	G RajKumar, G Udhaya Sankar, **G Ravi,** C Ganesa Moorthy, S Sekar	Smart Science, 8(2), 2020, 50-60.	I	---
29.	Ni doped Bi_2WO_6 for electrochemical OER activity	SP Keerthana, B Jansi Rani, **G Ravi**, R Yuvakkumar, SI Hong, Dhayalan Velauthapillai, B Saravanakumar, M Thambidurai, Cuong Dang	International Journal of Hydrogen Energy 45 (2020) 18859-18866	I	IF-4.93
30.	$CoNiSe_2$ Nanostructures for Clean Energy Production	Balasubramanian Jansi Rani, **Ganesan Ravi**, Rathinam Yuvakkumar, Balasubramaniam Saravanakumar,	ACS Omega, 5, (2020),14702	I	IF-2.87

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31.	Water-splitting application of orthorhombic molybdite α-MoO3 nanorods	S Swathi, **G Ravi**, R Yuvakkumar, SI Hong, E Sunil Babu, Dhayalan Velauthapillai, P Kumar	Ceramics International 46, (2020) 23218-23222	I	IF-3.83
32.	Functional reduced graphene oxide/cobalt hydroxide composite for energy storage applications	M Sangeetha Vidhya, **G Ravi**, R Yuvakkumar, Dhayalan Velauthapillai, M Thambidurai, Cuong Dang B Saravanakumar, Asad Syed, Turki Dawoud	Materials Letters 276, 2020, 128193	I	IF-3.204
33.	Investigation of electrochemical properties of various transition metals doped SnO_2 spherical nanostructures for supercapacitor applications	S Asaithambi, P Sakthivel, M Karuppaiah, G Udhaya Sankar, K Balamurugan, R Yuvakkumar, M Thambidurai**, G Ravi**	Journal of Energy Storage 31, (2020), 101530	I	IF-3.762

34.	Single-phase Cr_2O_3 nanoparticles for biomedical applications	M Isacfranklin, Fuad Ameen, **G Ravi**, R Yuvakkumar, SI Hong, Dhayalan Velauthapillai, M Thambidurai, Cuong Dang	Ceramics International 46, (2020) 19890-19895	I	IF-3.83
35.	Improved optoelectronic properties of Gd doped cadmium oxide thin films through optimized film thickness for alternative TCO applications	P Sakthivel, S Asaithambi, M Karuppaiah, R Yuvakkumar, Y Hayakawa, **G Ravi**	Journal of Alloys and Compounds, 820**,** (2020) 153188	I	IF-4.65
36.	Improved photocatalytic performance of nanostructured SnO_2 via addition of alkaline earth metals (Ba^{2+}, Ca^{2+} and Mg^{2+}) under visible light irradiation	S Asaithambi, P Sakthivel, M Karuppaiah, Y Hayakawa, A Loganathan, **G Ravi**	Applied Physics A, 126, (2020), 1-12.	I	IF-1.81
37.	Urchin like $NiCo_2O_4$/rGO nanocomposite for high energy asymmetric storage applications	M Isacfranklin, **G Ravi**, R Yuvakkumar, P Kumar, Dhayalan Velauthapillai, B Saravanakumar, M Thambidurai, Cuong Dang	Ceramics International 46, (2020) 16291-16297	I	IF-3.83

38.	Designing rational and cheapest SeO_2 electrocatalyst for long stable water splitting process	S.Swathi, B.JansiRani, **G.Ravi**, R.Yuvakkumar, S.I.Hong, S.Dhayalan Velauthapillai, B.Saravanakumar, M.Thambidurai, CuongDang	Journal of Physics and Chemistry of Solids,145 (2020) 109544	I	IF-3.442
39.	Neutral and alkaline chemical environment dependent synthesis of Mn_3O_4 for oxygen evolution reaction (OER).	B. JansiRani, **G.Ravi**, R.Yuvakkumar, S.I.Hong, Dhayalan Velauthapillai, M.Thambidurai, CuongDang, B.Saravanakumar	Materials Chemistry and Physics (2020) 122864	I	IF-3.408
40.	Facile hydrothermal synthesis of $CuCo_2O_4$/AC/PANI nanocomposites	B. Saravanakumar **G. Ravi**, Ramesh K. Guduru, R. Yuvakkumar	Journal of Sol-Gel Science and Technology, (2020) 94 241–250	I	IF-2.008
41.	Synthesis of $X_3(PO_4)_2$ [X = Ni, Cu, Mn] Nanomaterials as an Efficient Electrode for Energy Storage Applications	B. Saravanakumar A. Haritha, **G. Ravi**, R. Yuvakkumar.	Journal of nanoscience and nanotechnology 20 (2020), 2813-2822.	I	IF-1.134
42.	Synthesis and characterization of Mn_3O_4/$MnSnO_3$ nanocomposites for supercapacitor applications	R. Shobana, B. Saravanakumar, **G. Ravi**, V. Ganesh R. Yuvakkumar	International Journal of Plastics Technology (2020), 1-9.	I	-------

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46.	Synthesis of self-assembled micro/nano structured manganese carbonate for high performance, long lifespan asymmetric supercapacitors and investigation of atomic-level intercalation properties of OH− ions via first principle calculation	M. Karuppaiah, R. Akilan, P. Sakthivel, S. Asaithambi, R. Shankar, R. Yuvakkumar, Y. Hayakawa, **G. Ravi.**	Journal of energy storage 27(2020) 101138.	I	IF-3.762

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49.	Binder free, robust and scalable CuO@GCE modified electrodes for efficient electrochemical water oxidation	B.JansiRani, **G.Ravi** R.Yuvakkumar, Zinab M.Hasan, S.Ravichandran, S.I.Hong	Materials Chemistry and Physics 239 (2019), 122321.	I	IF-3.408
50.	Electrochemical Water Oxidation of $NiCo_2O_4$ and $CoNi_2S_4$ Nanospheres Supported on Ni Foam Substrate	Balasubramanian Jansi Rani, Katturajan Nivedha, **Ganesan Ravi** , Dr. Rathinam Yuvakkumar	Chemistry select 4 (2019), 10122-10132.	I	IF-1.811
51.	Electrochemical performances of monodispersed spherical $CuFe_2O_4$ nanoparticles for pseudocapacitive applications	B.Saravanakumar, SP.Ramacahndran, **G.Ravi**, V.Ganesh, Ramesh, K.Guduru, R.Yuvakkumar	Vacuum 166, (2019), , 279-285.	I	IF-2.906
52.	Synthesis of $MnNiO_3/Mn_3O_4$ nanocomposites for the water electrolysis process	B. Jansi Rani, S. Rathika, **G. Ravi**, R. Yuvakkumar	Journal of Sol-Gel Science and Technology 92 (2019), 1-11.	I	IF-2.008

53.	Highly dispersed $SmMn_2O_5$ nanorods for electrochemical water oxidation reaction kinetics	B Jansi Rani, M. Gowsalya, **Ganesan Ravi**, Rathinam Yuvakkumar and S I Hong	Materials Research Express 6, (2019), 095090.	I	IF-1.929
54.	Different rare earth (Sm, La, Nd) doped magnetron sputtered CdO thin films for optoelectronic applications	P. Sakthivel, S. Asaithambi, M. Karuppaiah, S.Sheik Fareed, R. Yuvakkumar, **G. Ravi.**	Journal of Materials Science: Materials in Electronics 30(10), (2019) 9999–10012	I	IF-2.220
55.	Superior electrochemical water oxidation of novel $NiS@FeS_2$ nanocomposites	B.Jansi Rani, P. Aiswarya kanjana, **G. Ravi**, R. Yuvakkumar, B Saravanakumar	Materials Science in Semiconductor Processing 101 (2019), 174-182	I	IF: 3.085
56.	Perovskite $BiFeO_3$ nanocatalysts for electrochemical water oxidation	B. Jansi Rani, **G. Ravi,** R. Yuvakkumar, M. Thambidurai.	Journal of Sol-Gel Science and Technology 91(2) (2019) ,247–254	I	IF-2.008
57.	WO_3 nanocubes for photoelectrochemical water-splitting applications	B.Jansi Rani, M.Praveen Kumar, S. Ravichandran, **G. Ravi**, V. Ganesh, Ramesh K. Guduru, R. Yuvakkumar, S.I. Hong	Journal of Physics and Chemistry of Solids,134 (2019) 149-156	I	IF-3.442
58.	Electrochemical Performance of β-$Nis@Ni(OH)_2$ Nanocomposite for Water Splitting Applications	Balasubramanian Jansi Rani, Nagasundaram Dhivya,**Ganesan Ravi**, Shankaracharya S. Zance, Rathinam	ACS Omega 46 (2019) 10302-10310	I	IF-2.87

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60.	Novel $SmMn_2O_5$ hollow long nano-cuboids for electrochemical supercapacitor and water splitting applications	B. Jansi Rani, **G. Ravi** , R. Yuvakkumar, S.I. Hong	Vacuum 166 (2019) 279–285	I	IF: 2.906
61.	$BiVO_4$ Nanostructures for Photoelectrochemical (PEC) Solar Water Splitting Applications	B. Jansi Rani , M. Praveenkumar, S. Ravichandran, **G. Ravi ,** Ramesh K. Guduru, R. Yuvakkumar	Journal of Nanoscience and Nanotechnology 19 (2019)7427–7435	I	IF: 1.134
62.	Ultrafine M-doped TiO_2 (M= Fe, Ce, La) nanosphere photoanodes for photoelectrochemical water-splitting applications	B Jansi Rani, M Praveenkumar, S Ravichandran, V Ganesh, Ramesh K Guduru, **G Ravi**, R Yuvakkumar	Materials Characterization 152 (2019) 188-203	I	IF: 3.562
63.	Bi_2WO_6 and $FeWO_4$ Nanocatalysts for the Electrochemical Water Oxidation Process	Balasubramanian Jansi Rani, **Ganesan Ravi,** Rathinam Yuvakkumar, M Praveenkumar, Subbiah Ravichandran, Paulpandian Muthu Mareeswaran, Sun	ACS Omega, 4 (2019), 5241-5253	I	IF-2.87

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65.	Low Surface Energy and pH Effect on SnO_2 Nanoparticles Formation for Supercapacitor Applications	B Saravanakumar, **G Ravi,** V Ganesh, S Ravichandran, A Sakunthala, R Yuvakkumar	Journal of Nanoscience and Nanotechnology 19 (2019) 3429-3436	I	IF: 1.134
66.	Preparation of SnO_2 Nanoparticles with Addition of Co Ions for Photocatalytic Activity of Brilliant Green Dye Degradation	S. Asaithambi, P. Sakthivel, M. Karuppaiah, R. Murugan, R. Yuvakkumar, **G. Ravi.**	Journal of Electronic Materials, 48, (2019) 2183-94	I	IF: 1.774
67.	Synthesis of polyoxometalates, copper molybdate ($Cu_3Mo_2O_9$) nanopowders, for energy storage applications	B.Saravanakumar, **G.Ravi,** R.Yuvakkumar, V.Ganesh, Ramesh K.Guduru.	Materials Science in Semiconductor Processing, 93, (2019), 164-172	I	IF: 3.085
68.	Formation of one dimensional nanorods with microsphere of $MnCO_3$using Ag as dopant to enhance the performance of pseudocapacitors	M. Karuppaiah, P. Sakthivel, S. Asaithambi, R. Murugan, R. Yuvakkumar, **G. Ravi.**	Materials Chemistry and Physics, 228 (2019) 1-8	I	IF: 3.408

69.	Efficient, highly stable Zn-doped NiO nanocluster electrocatalysts for electrochemical water splitting applications	B. Jansi Rani, **G. Ravi,** R. Yuvakkumar, S. Ravichandran, Fuad Ameen, A. Al-Sabri.	Journal of Sol-Gel Science and Technology 89 (2019) 500-510	I	IF-2.008
70.	Impact of l-Arginine and l-Histidine on the structural, optical and antibacterial properties of mg doped ZnO nanoparticles tested against extended-spectrum beta-lactamases (ESBLs) producing Escherichia coli	Abdulrahman Syedahamed Haja Hameed, GoldaLouis, Chandrasekaran, Karthikeyan, Nooruddin Thajuddin, **Ganesan Ravi.**	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 211, (2019)373-382	I	IF: 3.232
71.	Transition mixed-metal molybdates ($MnMoO_4$) as an electrode for energy storage applications	B. Saravanakumar SP.Ramachandran, **G. Ravi,** V. Ganesh, A. Sakunthala, R. Yuvakkumar.	Applied Physics A 125(2019) (1), 6	I	IF-1.81
72.	$MnCo_2O_4$ nanosphere synthesis for electrochemical applications	B Saravanakumar, **G Ravi,** V Ganesh, Ramesh K Guduru, R Yuvakkumar.	Materials Science for Energy Technologies 2 (2019) 130-138	I	----
73.	Influence of radiofrequency power on structural, morphological, optical and electrical properties of magnetron sputtered CdO: Sm thin films as alternative TCO for optoelectronic applications	P. Sakthivel, R. Murugan, S. Asaithambi, M. Karuppaiah, S. Rajendran, **G. Ravi.**	Journal of Alloys and Compounds 765 **(2018)** 146-157	I	IF: 4.65

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75.	Solvent dependent morphological modification of micro-nano assembled Mn_2O_3/NiO composites for high performance supercapacitor applications	M. Karuppaiah, P. Sakthivel, S. Asaithambi, R. Murugan, G.Anandha babu, R. Yuvakkumar, **G. Ravi.**	Ceramic International 45 (2019) 4298-4307	I	IF: 3.83
76.	Influence of Ni doping in SnO_2 nanoparticles with enhanced visible light photocatalytic activity for degradation of methylene blue dye	S. Asaithambi, R. Murugan, P. Sakthivel, M. Karuppaiah, S. Rajendran, R.Yuvakkumar and **G.Ravi**	Journal nanoscience and nanotechnology, 19 (2019) 4438-4446	I	IF: 1.134
77.	Sn doped α-Fe_2O_3(Sn=0,10,20,30 wt%) photoanodes for photoelectrochemical water splitting applications	B. Jansi rani, **G. Ravi**, R. Yuvakkumar, S. Ravichandran, Fuad ameen,. Alnadhary	Renewable Energy,133(2019) 566-574	I	IF-6.120
78.	Ag implanted ZnO hierarchical nanoflowers for photoelectrochemical water-splitting applications	B. Jansi Rani, A. Anusiya, M. Praveenkumar, S. Ravichandran, Ramesh K. Guduru **G. Ravi,** R. Yuvakkumar.	Journal of Materials Science: Materials in Electronics 30 (2019) 731-745	I	IF-2.220
79.	Radio frequency magnetron sputtered CdO thin films for optoelectronic applications	P. Sakthivel, R. Murugan, S. Asaithambi, M. Karuppaiah, S.Rajendran,	Journal of Physics and Chemistry of Solids, 126 (2019) 1-10	I	IF: 3.448

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80.	Pseudocapacitive $NiO/NiSnO_3$ Electrode for Supercapacitor Applications	B. Saravanakumar R. Shobana, **G. Ravi,** V. Ganesh, R. Yuvakkumar	Journal of Electronic Materials, 47, (2018) 90-95	I	IF: 1.774
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82.	Transition-Metal Element (Ni, Co)-Doped MgO Microflowers for Electrochemical Biosensor Applications	A. Anusiya, B. Jansi rani, **G. Ravi,** R. Yuvakkumar, S. Ravichandran, V. Ganesh, B. Saravanakumar.	The Minerals, Metals & Materials Society,(2018) 1-6	I	IF: 2.02
83.	Hydrothermal synthesis and electrochemical properties of $ZnCo_2O_4$ microspheres	B. Saravanakumar **G. Ravi**, R. Yuvakkumar, V. Ganesh, S. Ravichandran , M. Thambidurai, A. Sakunthala.	Ionics (2018) 1-8 10.1007/s11581-018-2766-1	I	IF: 2.394
84.	Enhanced pseudocapacitive performance of SnO_2, Zn- SnO_2, and Ag- SnO_2 nanoparticles	B. Saravanakumar S.P.Ramachandran **G. Ravi,** V. Ganesh, S. Ravichandran, P. Muthu, Mareeswaran, R. Yuvakkumar.	Ionics (2018) 24 (12), 4081-4092	I	IF: 2.394
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87.	Structural, morphological, optical and antibacterial properties of pentagon CuO nanoplatelets	R. Uma Maheswari, B. Jansi Rani, **G. Ravi,** R. Yuvakkumar, Fuad Ameen, A. Al-Sabri	Journal of Sol-Gel Science and Technology 87 1–13, (2018)	I	IF-2.008
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91.	Global exponential stability of antiperiodic solutions for impulsive discrete-time	C. Sowmiya, R. Raja, Jinde Cao, **G. Ravi,**	International Journal of Adaptive Control and Signal	I	IF-2.116

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94.	Vertically aligned Cu-ZnO nanorod arrays for water splitting applications	Eadi Sunil Babu, B Jansi Rani, **G Ravi**, R Yuvakkumar, Ramesh K Guduru, S Ravichandran, Faud Ameen, Sungjin Kim, Heung Woo Jeon	Materials Letters, 222 (2018) 58-61	I	IF-3.204
95.	Radio frequency power induced changes of structural, morphological, optical and electrical properties of sputtered cadmium oxide thin films	P. Sakthivel, R. Murugan, S. Asaithambi, M. Karuppaiah, G. Vijayaprasath, S. Rajendran, Y. Hayakawa, **G. Ravi.**	Thin Solid Films,654 (2018) 85–92	I	IF: 2.03
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99.	Novel $NiWO_4$ nanoberries morphology effect on photoelectrochemical properties	Sunil Babu Eadi, B Jansi Rani **,** **G Ravi**, Ramesh K Guduru, V Ganesh, R Yuvakkumar, Sungjin Kim.	Materials Letter, 220 (2018) 209-212	I	IF-3.204
100.	Electrochemical characterization of $FeMnO_3$ microspheres as potential material for energy storage applications	B Saravanakumar, SP.Ramachandran, **G Ravi**, V Ganesh, Ramesh K Guduru R Yuvakkumar.	Mater. Res. Express 5 (2018) 015504	I	IF: 1.929
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102.	Structural, Optical and Magnetic Properties of NiO Nanopowders	B Jansi Rani, B Saravanakumar, **G Ravi,** V Ganesh, A Sakunthala, R Yuvakkumar	Journal of Nanoscience and Nanotechnology, 18 (2018) 4658-4666	I	IF: 1.134
103.	Zinc oxide nanotips growth by controlling vapor deposition on substrates	Eadi Sunil Babu, B Saravanakumar, **G Ravi,** R Yuvakkumar,	Journal of Materials Science: Materials in	I	IF-2.220

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104.	Hexamine Role on Pseudocapacitive Behaviour of Cobalt Oxide (Co_3O_4) Nanopowders	T Priyadharshini, B Saravanakumar, **G Ravi,** A Sakunthala, R Yuvakkumar.	Journal of Nanoscience and Nanotechnology, 18 (2018) 4093-4099	I	IF: 1.134
105.	Pure and Alkaline Metal Ion (Mg, Ca, Sr, Ba) Doped Cerium Oxide Nanostructures for Photo Degradation of Methylene Blue.	R Murugana, L Kashinath, R Subash, P Sakthivel, K Byrappa, S Rajendran, **G Ravi.**	Materials Research Bulletin, 97(2018) 319-325	I	IF-4.019
106.	Role of Co doping on structural, morphological and magnetic properties of SILAR deposited magnetite (Fe_3O_4) thin films	S. Sheik Fareed N. Mythili R. Chandramohan **G. Ravi.**	Journal of Materials Science Materials in Electronics,29 (3), (2018) 2484-2490	I	IF-2.220
107.	Studies on opto electronics properties of magnetron Cadmium Stannete sputtered thin films as alternative tco maaterials for solar cell applications	P. Sakthivel, R. Murugan, G.Vijayaprasath , S. Asaithambi, M. Karuppaiah S.Rajendran, Y.Hayakawa and **G.Ravi.**	Ceramics International, 44 , (2018) 2529-2538	I	IF: 3.83
108.	Controlled synthesis and electrochemical properties of Ag-doped $Co_3 O_4$ nanorods	B. Jansi Rani, Shilpa P. Raj, Saravana kumar, **G Ravi,** V Ganesh, R.Yuvakkumar.	International Journal of Hydrogen Energy · 42 (50), (2018) 29666-29671	I	IF-4.939
109.	Surfactant effect on synthesis and electrochemical properties of nickel-doped magnesium oxide (Ni–MgO) for	B. Saravanakumar S. Muthulakshmi, **G. Ravi,** V. Ganesh, A. Sakunthala & R. Yuvakkumar.	Appl. Phys. A **(2017)** 123:697	I	IF-1.81

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110.	Prompt Synthesis of Iridium Organosol on DNA for Catalysis and SERS Applications	K. Sakthikumar, S. Anantharaj, Sivasankara Rao Ede, K. Karthick, **G. Ravi,** T.Karthik, and Subrata Kundu	Journal of Materials Chemistry C, **5 (45), (2017)** 11947-11957	I	IF: 7.059
111.	Structural, optical and magnetic properties of $CuFe_2O_4$ nanoparticles	B Jansi Rani, B Saravanakumar, **G Ravi,** V Ganesh, S Ravichandran, R Yuvakkumar.	Journal of Materials Science: Materials in Electronics, 29 (2017) 1975-1984	I	IF-2.220
112.	Design, Fabrication, and Characterization of Hematite (α-Fe_2O_3) Nanostructures.	B. Jansi Rani, R. Mageswari, V Ganesh, **G. Ravi,** R.Yuvakkumar.	The Journal of the Minerals, Metals & Materials Society,(2017) 1-7	I	IF-2.03
113.	Morphology dependent electrochemical capacitor performance of $NiMoO_4$ nanoparticles.	B Saravanakumar, SP.Ramachandran, **G Ravi**, V Ganesh, A Sakunthala, R Yuvakkumar.	Materials Letters, 209 (2017) 1-4	I	IF-3.204
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116.	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).13780-86	I	IF-2.220
117.	Electrochemical properties of rice-like copper manganese oxide ($CuMn_2O_4$) nanoparticles for pseudocapacitor applications	B. Saravanakumar S. Muthu Lakshmi, **G. Ravi,**V.Ganesh, A. Sakunthala R. Yuvakkumar..	Journal of Alloys and Compounds 723(2017) 115-122	I	IF-4.65
118.	Properties of SILAR deposited magnetite (Fe_3O_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, 28 (2017)9450–9455	I	IF-2.220
119.	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 43 (2017)10494-10501.	I	IF: 3.83
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121.	Ni-CeO_2 Spherical Nanostructures for Magnetic and	R. Murugan, **G. Ravi,** G. Vijayaprasath,	Physical Chemistry Chemical	I	IF-3.430

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122.	Reducing agent ($NaBH_4$) dependent structure, morphology and magnetic properties of nickel ferrite ($NiFe_2O_4$) nanorods	B. Saravanakumar B. Jansi Rani, **G. Ravi,** M. Thambidurai, R. Yuvakkumar	Journal of Magnetism and Magnetic Materials, 428 (2017) 78-85.	I	IF-2.717
123.	A green route to synthesis silver nanoparticles using Sargassum polycystum and its antioxidant and cytotoxic effects: an in vitro analysis	S. Palanisamy, P. Rajasekar, G.Vijayaprasath, **G. Ravi,** R. Manikandan, N.M. Prabhu.	Materials Letters, 189 (2017) 196-200	I	IF-3.204
124.	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: 3.83
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126.	Growth and characterization of pure, chloroacetamide and 4-	Golda Louis, A. S. Haja Hameed, C. Karthikeyan, **G. Ravi.**	J Mater Sci: Mater Electron (2016) 1652-58	I	IF-2.220

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127.	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-6.182
128.	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-7.489
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130.	DNA mediated electrocatalytic enhancement of aFe_2O_3–PEDOT–C-MoS_2 hybrid nanostructures for riboflavin detection on screen printed electrode	C. Sumathi, P. Muthukumaran, P. Thivya, J. Wilson, **G. Ravi.**	RSC Advances 6, (2016) 81500-81509	I	IF-3.119
131.	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-3.280
132.	Synthesis of ZnO nanowire arrays on ZnO TiO 2 mixed oxide seed layer for dye	T. Marimuthu, N. Anandhan, R. Thangamuthu, M. Mummoorthi,	Journal of Alloys and Compounds 677, (2016) 211-218	I	IF-4.65

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133.	3-Carboxy-2-(piperidin-1-ium-1-yl) propanoate	S. Sudhahar, K.Sankaranarayanan, **G.Ravi**, R.M. Kumar, G. Chakkaravarthi	IUCrData, (2016) x160748	I	-------
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136.	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: 3.83
137.	Studies on the simplified SILAR deposited magnetite (Fe_3O_4) thin films annealed at different temperatures	S Sheik Fareed, N Mythili, H Mohamed Mohaideen, K Saravanakumar, R Chandramohan**,** **G. Ravi**	Journal of Materials Science: Materials in Electronics 27 (4), (2016) 3420-3426	I	IF-2.220
138.	Magnetic evolution in transition metal-doped $Co_{3-x}M_xO_4$ (M= Ni, Fe, Mg and Zn) nanostructures	G.Anandha Babu, **G.Ravi**	Applied Physics A 122 (2016), 1-8	I	IF-1.81
139.	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,	Applied Physics A 122 (2016), 1-11	I	IF-1.81

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140.	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-4.120
141.	Au–Pd bimetallic nanoparticles anchored on α-Fe_2O_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-5.344
142.	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, Subbiah Alwarappan	New Journal of Chemistry 40 (2016) 2741-2748	I	IF-3.288
143.	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-4.019

144.	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: 3.83
145.	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-6.182
146.	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-2.187
147.	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-3.204
148.	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-4.65
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150.	Structural, optical and antibacterial activity	G. Vijayaprasath, R. Murugan,	J Mater Sci: Mater	I	IF-2.220

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151.	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-2.220
152.	Riboflavin detection by αFe_2O_3/ MWCNT/ Au NPs based composite and a study of the interaction of riboflavin with DNA	C. Sumathi, P. Muthukumaran, S. Radhakrishnan, **G. Ravi**, J. Wilson	RSC Advances 5 (23), (2015) 17888-17896	I	IF-3.119
153.	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-2.120
154.	Quantification of ferromagnetism in metal doped NiO nanostructures	G.Anandha babu, **G.Ravi**	Materials Letters, 161, (2015) 149-152	I	IF-3.204
155.	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: 3.83
156.	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-2.220
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159.	Surfactant mediated oneand twodimensional 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-1.929
160.	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-2.220
161.	Determination of gas sensing properties of thermally evaporated WO_3 nanostructures	R. Senthilkumar, C. Sekar, M. Arivanandhan, M. Navaneethan Y. Hayakawa, **G.Ravi**	Journal of Materials Science: Materials in Electronics, 26, (2015), 1389.	I	IF-2.220
162.	Microwave synthesis and magnetic investigations of surfactant assisted NiO nanostructures	G.Anandha babu, Y.Hayakawa, **G.Ravi**	Matt. Lett., 149, (2015), 54.	I	IF-3.204
163.	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-4.060
164.	Microwave synthesis and effect of CTAB on ferromagnetic properties of NiO, Co_3O_4	G.Anadha babu and Y.Hayakawa, **G.Ravi**	Appl. Phys. A, 119, (2015), 219.	I	IF-1.81

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