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MASTER TECHNICIAN

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Academic Qualifications: M.Sc., B.Ed., M.Phil.

Teaching Experience: 02 Years

Research Experience: 03 Year

Areas of Research

Thin films, Nanomaterials

Research Supervision / Guidance

Publications

International		National		others
Journals	Conferences	Journals	conferences	Books/ Chapters/ Monographs/ Manuals
4	1	5	5	-

Events Participated

S. No	Name of the event	Place/date	Title of the paper presented
1	55 th DAE - Solid State Symposiu	Manipal University, Manipal December 26-30, 2010	Surface Morphological Studies on Cupric Oxide Thin films
2	55 th DAE - Solid State Symposium	Manipal University, Manipal December 26-30, 2010	Substrate effects on the properties of chemical bath deposited CuO thin films
3	55 th DAE - Solid State Symposium	Manipal University, Manipal December 26-30, 2010	Heat Treatment Effects on Cadmium Oxide Thin Films
4	64 th DAE - Solid State Symposium 2019	Indian Institute of Technology Jodhpur, Rajasthan, December 18-22, 2019	Hydrothermal synthesis of Bare and Ni doped CdO nanostructures for antibacterial applications
5	International Conference on Physics and Chemistry of Materials in Novel Engineering Applications (PCMNEA'20)	Kumaraguru College of Technology, Coimbatore 6 th -7 th February 2020	Cu ₂ S electrochemical energy storage applications

Membership in

Recent Publications

2011	
1	T. Mahalingam, V. Dhanasekaran, G. Ravi, M. Sangeetha Vidhya , T. Sasikumar, P. Joycee
	Surface Morphological Studies on Cupric Oxide Thin films
	AIP Conf.Proc. 1349 (2011) 729-730
2	V. Dhanasekaran, T. Mahalingam, G. Ravi, T. Sasikumar, P. Joycee , M. Sangeetha Vidhya
	Substrate effects on the properties of chemical bath deposited CuO thin films
	AIP Conf.Proc. 1349 (2011) 733-734
3	T. Mahalingam, V. Dhanasekaran, S. Thanikaikarasan, M. Sangeetha Vidhya , G. Ravi
	Heat Treatment Effects on Cadmium Oxide Thin Films
	AIP Conf.Proc. 1349 (2011) 752-753
2020	
4	M. Sangeetha Vidhya , B. Jansi Rani, G. Ravi, R. Yuvakkumar
	Hydrothermal synthesis of Bare and Ni doped CdO nanostructures for antibacterial applications
	AIP Conf.Proc. 2265, (2020), 030091
5	M. Sangeetha Vidhya , G. Ravi, R. Yuvakkumar, P. Kumar, Dhayalan Velauthapillai, B. Saravanakumar, E. Sunil Babu
	Cu ₂ S electrochemical energy storage applications
	AIP Conf.Proc. 2270, (2020), 100011
6	M. Sangeetha Vidhya , G. Ravi, R. Yuvakkumar, Dhayalan Velauthapillai, M. Thambidurai, Cuong Dang, B. Saravanakumar
	Nickel-cobalt hydroxide: a positive electrode for supercapacitor applications
	RSC Adv., 10, 2020, 19410-19418
7	M. Sangeetha Vidhya , G. Ravi, R. Yuvakkumar, Dhayalan Velauthapillai, M. Thambidurai, Cuong Dang, B. Saravanakumar, Asad Syed, Turki Dawoud
	Functional reduced graphene oxide/cobalt hydroxide composite for energy storage applications
	Materials Letters., 276, 2020, 128193
8	M. Sangeetha Vidhya , G. Ravi, R. Yuvakkumar, M. Thambidurai, Cuong Dang, Mehboobali Pannipara, Abdullah G. Al-Sehemi, Dhayalan Velauthapillai
	Energy storage performance of CoNiSe ₂ nanostructures
	Materials Letters., 279, 2020, 128485
9	M. Sangeetha Vidhya , Fuad Ameen , Turki Dawoud , R. Yuvakkumar , G. Ravi , P. Kumar , Dhayalan Velauthapillai
	Anti-cancer applications of Zr, Co, Ni-doped ZnO thin nanoplates
	Materials Letters., 283, 2020, 128760

2021	
10	M.Sangeetha Vidhya , R Yuvakkumar, G Ravi, M Pannipara, A.G .Al-Sehemi, Dhayalan Velauthapillai
	Hydrothermal synthesis of Cu ₂ Se–CoSe nanograin for electrochemical supercapacitor applications, Applied Nanoscience, 11 (2021) 1881-1888.
2022	
11	M. Sangeetha Vidhya ,R. Yuvakkumar , P. Kumar, G. Ravi, Dhayalan Velauthapillai
	Hydrothermal Synthesis of Flower Like MnSe ₂ @MoSe ₂ Electrode for Supercapacitor Applications, Topics in Catalysis, 65 (2022) 615-622
12	M. Sangeetha Vidhya , R Yuvakkumar, P Senthil Kumar, G. Ravi, Dhayalan Velauthapillai, Majede Bijad.
	Recent Progression of Flower Like ZnSe@MoSe ₂ Designed as an Electrocatalyst for Enhanced Supercapacitor Performance, Topics in Catalysis, 65 (2022) 684-693.
13	M. Sangeetha Vidhya , R. Yuvakkumar, G. Ravi, A.G. Al-Sehemi, V.H Nguyen, Dhayalan Velauthapillai
	Exploration of a Bimetallic NiSe ₂ @CoSe ₂ Nanosphere as a Proficient Electrode for Electrochemical Activity, Energy & Fuels, 36 (2022) 1726-1734.
14	M.Sangeetha Vidhya, R. Yuvakkumar, G. Ravi, M Pannipara, A.G. Al-Sehemi , Dhayalan Velauthapillai
	PVP-assisted grass-like NiSe@ZnSe composite for environmental energy applications, Journal of Materials Science: Materials in Electronics, 33 (2022) 8409-8416.
15	M.Sangeetha Vidhya , R Yuvakkumar, P Kumar, G Ravi, Dhayalan Velauthapillai, P.N. Asrami.
	Electrochemical Enhancement of Binary CuSe ₂ @MoSe ₂ Composite Nanorods for Supercapacitor Application. Topics in Catalysis, 65 (2022) 668-676.
16	M. Sangeetha Vidhya , R. Yuvakkumar, G Ravi, E. Sunil Babu, B. Saravanakumar, O Nasif, S.A Alharbi, Dhayalan Velauthapillai.
	Demonstration of 1.5 V asymmetric supercapacitor developed using MnSe ₂ -CoSe ₂ metal composite. Ceramics International, 47 (2021) 11786-11792.
17	M. Sangeetha Vidhya , R. Yuvakkumar, G. Ravi, B. Saravanakumar, Dhayalan Velauthapillai.
	Asymmetric polyhedron structured NiSe ₂ @MoSe ₂ device for use as a supercapacitor, Nanoscale Advances, 2021, 3, 4207
18	M. Sangeetha Vidhya , R. Yuvakkumar, G. Ravi
	Construction of bimetallic ZnSe-CoSe ₂ flower as a finely tuned electrode for enhancing supercapacitor performance.