

List of Publications

2021-2022

Sl.No	Title of the paper	First Author & Affiliation	Remaining Authors & Affiliations as per the orders in papers	Name of the Journal / Conference	Volume No, Issue No, Page No, Month & Year	Indexing	Online Link of the paper (by clicking this link, paper should opened in online)
1.	Revisiting Einsteins diffusion-mobility relation for universal quantum materials: A generalized paradigm	K.Navamani & Department of Physics, KPR Institute of Engineering	-	Europhysics Letters	Vol.134 (4),47001, 2021	SCIE, SCOPUS	https://iopscience.iop.org/article/10.1209/0295-5075/134/47001/pdf#:~:text=Our%20generalized%20diffusion%20mobility%20relation,relation%20in%20an%20appropriate%20limit.
2.	Novel $La_{1-x}Ca_xTi_{1-y}Ta_yO_{3-\delta}$ perovskites with enhanced conductivity for Solid Oxide Fuel Cell electrodes	Bradha Madhavan & Department of Physics, Rathinam Technical Campus	A. Suvitha, Ananth Steephen, Bransesh Pillai. M & Department of Physics, CMR Institute of Technology, Department of Physics, KPR Institute of Engineering and Technology, Center for Biomedical and Robotics Technology, Mahidol University	Journal of Alloys and Compounds	Vol. 915, 165370, 2022	SCI	https://www.sciencedirect.com/science/article/abs/pii/S0925838822017613#:~:text=respectively%20%5B21%5D,-,In%20La1%E2%88%92xCaxTi1%E2%88%92yTa.Ta%20in%20the%20perovskite%20structure.
3.	Realization of Ti MOF/MoS2 hybrid nanostructure and their catalytic activity towards 4-nitrophenol reduction	Ranjith Kumar Dharman & Center for Advanced Materials, Aaivalayam-Dynamic Integrated Research Academy and Corporations (DIRAC),	Bibi Mary Francis, Joice Sophia Ponraj, Santhoshbalaji Muthuvijayan, Rajesh Kumar Manavalan, Shankar Harisingh , Selvakumar Balasubramanian, Sathish Chander Dhanabalan & Department of Physics, Kalasalingam University, Institute of Natural Science and Mathematics, Ural Federal	Journal of Materials Research and Technology	Vol. 17, 1760-1769, 2022	SCOPUS, WEB OF SCIENCE	https://www.sciencedirect.com/science/article/pii/S2238785422000692

			University, Department of Physics, Centre for Research and Development (CFRD), KPR Institute of Engineering and Technology				
4.	Influence of carboxylic acids on structural, optical, thermal, and electrical properties of ferroelectric glycine phosphite single crystals	S. Shanmuga Sundari & Department of Physics, PSGR Krishnammal College for Women	N. Arunadevi, P. Kanchana, P. Meena, E. Ranjith Kumar, Hosam O. Elansary, Eman A. Mahmoud, Shaimaa A. M. Abdelmohsen & Department of Chemistry, PSGR Krishnammal College for Women, Department of Physics, KPR Institute of Engineering and Technology, Plant Production Department, College of Food and Agriculture Sciences, King Saud University, Department of Food Industries, Faculty of Agriculture, Damietta University, Department of Physics, Faculty of Science, Princess Nourah bint Abdulrahman University	Journal of Materials Science: Materials in Electronics	Vol. 33, 17421 – 17433, 2022	SCI	https://link.springer.com/article/10.1007/s10854-022-08443-y
5.	Enhanced electrical conductivity of ceria electrolyte doped with samarium ($Ce_{0.8-x}Zr_xSm_{0.2}O_{2.4}$) for solid oxide fuel cells	Bradha Madhavan & Department of Physics, Rathinam Technical Campus	Nagaraj Balakrishnan, Branesh Pillai, Ananth Steephen & Department of ECE, Rathinam Technical Campus, Center for Biomedical and Robotics Technology, Mahidol University, Department of Physics, KPR Institute of Engineering and Technology	Journal of Materials Science: Materials in Electronics	Vol. 32, 23066- 23080, 2021	SCI	https://link.springer.com/article/10.1007/s10854-021-06789-3

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7.	New epoxy-Nano metal oxide-based coatings for enhanced corrosion protection	N. Arunadevi & Department of Chemistry, PSGR Krishnammal College for Women	M. Swathika, M. Mehala, E. Ranjith Kumar, Tahani M. Bawazcer, Moataz Morad, Kholood Alkhamis, Samar Y. Al-nami, Nashwa M. El-Metwaly & Department of Physics, KPR Institute of Engineering and Technology, Department of Chemistry, Faculty of Applied Science, Umm-Al-Qura University, Department of Chemistry, College of Science, University of Tabuk, Department of Chemistry, Faculty of Science, King Khalid University, Department of Chemistry, Faculty of Science, Mansoura University	Journal of Molecular structure	Vol. 1250 (2), 131790, 2022	SCI	https://www.sciencedirect.com/science/article/abs/pii/S0022286021019153
8.	Experimental, theoretical investigations on second order nonlinear optical solicitations of Anilinium Hydrogen Sulfate (AHS)	P. Vivek & Department of Physics, Sri Sankara Arts and Science College	M. Rekha, G. Saravana Kumar, Ro. Mu. Jauhar, M. Kowsalya, Ananth Steephen & School of Electrical Engineering, Department of Energy and Power Electronics, Department of Instrumentation and Control Engineering (Autonomous), Sri Manakula Vinayagar Engineering Coll Department of Physics, Rajalakshmi Engineering College (Autonomous), Thandalam, Department of Physics, SSN Research Centre, Department of Physics, KPR Institute of	Journal of Optics	Vol. 51, 327-335, 2022	SCOPUS	https://link.springer.com/article/10.1007/s12596-021-00763-2

			Engineering and Technology				
9.	Molecular structure, FT-Raman, IR, NLO, NBO, HOMO-LUMO analysis, physicochemical descriptors, adme parameters, and pharmacokinetic bioactivity of 2,3,5,6-Tetrachloro-p-benzoquinone	A. Suvitha & Department of Physics, CMR Institute of Technology	M. A. M. El-Mansy, G. Kothandan, A. Steephen & Molecular Modelling Simulation Lab., Physics Department, Faculty of Education, University of Ain Shams, Condensed Matter Theory Unit, College of Science and Arts, Department of Physics, Qassim University, Biopolymer Modelling Laboratory, Centre of Advanced Study in Crystallography and Biophysics, University of Madras, Department of Physics, KPR Institute of Engineering and Technology	Journal of Structural Chemistry	Vol. 62, 1339-1356, 2021	SCI & SCOPUS	https://link.springer.com/article/10.1134/S0022476621090031
10.	Size and Phase Purity-Dependent Microstructural and Magnetic Properties of Spinel Ferrite Nanoparticles	P. Chitra & Department of Chemistry, Muthayammal Engineering College	E. Ranjith Kumar, T. Pushpagiri, Ananth Steephen & Department of Physics, KPR Institute of Engineering and Technology	Journal of Superconductivity and Novel Magnetism	Vol. 34, 1239-1244, 2021	SCI & SCOPUS	https://link.springer.com/article/10.1007/s10948-021-05831-z
11	Synergistic effects of graphene oxide grafted chitosan & decorated MnO ₂ nanorods composite materials application in efficient removal of toxic industrial dyes	Rajesh Rajendiran & Energy & Environmental Engineering Department, CSIR-Indian Institute of Chemical Technology	Arunkumar Patchaiyappan, Shankar Harisingh, Putrakumar Balla, Alagesan Paari, Bhanuchander Ponnala, Vijayanand Perupogu, Ulla Lassi, Prem Kumar Seelam & Department of Ecology and Environmental Sciences, Pondicherry University, Department of Physics, KPR Institute of	Journal of Water Process Engineering	Vol. 47, 102704, 2022	SCIE, SCOPUS	https://www.sciencedirect.com/science/article/pii/S2214714422001477

			Engineering and Technology, Department of Life Sciences, Christ University, Department of Chemistry, Pondicherry University, Sustainable Chemistry Research Unit, Faculty of Technology				
12	Incorporation of polyaniline on graphene-related materials for wearable thermoelectric applications	Anshu Panbude & SMart and Innovative Laboratory for Energy Devices (SMILE), Indian Institute of Information Technology Design and Manufacturing	Suhasini Sathiyamoorthy, R. Kumar, H. Shankar, S. Paulraj, V. Kathirvel, A.M. Adam, E.M.M. Ibrahim, K. Jayabal, Pandiyarasan Veluswamy & Department of Electronics and Communication Engineering, Indian Institute of Information Technology Design and Manufacturing, Department of Electronics and Communication Engineering, SRM Institute of Science and Technology, Department of Physics, KPR Institute of Engineering and Technology, Department of Physics, School of Science and Humanities, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Physics Department, Faculty of Science, Sohag University, Department of Mechanical Engineering, Indian	Materials Letters	Vol. 304, 130576, 2021	SCI	https://www.sciencedirect.com/science/article/abs/pii/S0167577X21012738

			Institute of Information Technology Design and Manufacturing (IITDM) Kancheepuram, King Salman International University, South Sinai Governorate				
13.	Optical limiting behavior, nonlinear optical studies, geometrical descriptors, chemical properties data, topology analysis on tetraethylammonium L-tartrate dihydrate crystals	P. Vivck & Department of Physics, Sri Sankara Arts & Science College	M. Rekha,A. Suvitha,G. Saravana Kumar,Ro. Mu. Jauhar,M. Mahesh, M. Kowsalya, Ananth Steephen, &School of Electrical Engineering, Department of Energy and Power Electronics, Vellore Institute of Technology, Department of Physics, CMR Institute of Technology, Department of Physics, Rajalakshmi Engineering College, Department of Physics, Bharath Institute of Higher Education and Research, Institute of Materials Research, Washington State University, School of Electrical Engineering, Department of Energy and Power Electronics, Vellore Institute of Technology, Vellore, Department of Physics, KPR Institute of Engineering and Technology	Molecular Crystals and Liquid Crystals	Vol. 737 (1), 104-122, 2022	SCOPUS	https://www.tandfonline.com/doi/abs/10.1080/15421406.2021.2012329
14.	An organic hexamine p-nitrophenol crystal: Growth, optical, electrical, mechanical and density functional	R. Durgadevi & PG and Research Department of Physics, Pachaiyappa's College	A. Suvitha, Ananth Steephen, T. Arumanayagam & Department of Physics, CMR Institute of Technology,	Optical Materials	Vol. 127, 112280, 2022	SCOPUS	https://www.sciencedirect.com/science/article/abs/pii/S0925346722003147

	theoretical studies for nonlinear optical applications		Department of Physics, KPR Institute of Engineering and Technology				
15.	Murraya koenigii mediated synthesis of cobalt doped NiO nanoparticles: Evaluation of structural, optical properties and anti-bacterial activity	Nuha Y. Elamin & Department of Chemistry, College of Science, Imam Mohammad Ibn Saud Islamic University	T. Indumathi, E. Ranjith Kumar & Department of Chemistry, Sudan University of Science and Technology, Department of Chemistry, PSG College of Technology, Department of Physics, KPR Institute of Engineering and Technology	Physica E: Low-dimensional Systems and Nanostructures	Vol. 142, 115295, 2022	SCI & SCOPUS	https://www.sciencedirect.com/science/article/abs/pii/S1386947722001448
16.	Preparation of carbon quantum dots using bike pollutant soot: Evaluation of structural, optical and moisture sensing properties	Priyanka Chaudhary & Nanomaterials and Sensors Research Laboratory, Department of Physics, School of Physical and Decision Sciences, Babasaheb Bhimrao Ambedkar University	Arpit Verma, Akash Mishra, Deepankar Yadav, Krishna Pal, B.C. Yadav, E. Ranjith Kumar, Khem B. Thapa, Surabhi Mishra, D.K. Dwivedi & Department of Pharmaceutical Sciences, Babasaheb Bhimrao Ambedkar University, Condensed Matter Physics, Department of Physics, School of Physical and Decision Sciences, Babasaheb Bhimrao Ambedkar University, Department of Physics, KPR Institute of Engineering and Technology, Amorphous Semiconductor Research Lab, Department of Physics and Material Science, Madan Mohan Malviya University of Technology	Physica E: Low-dimensional Systems and Nanostructures	Vol.139, 115174, 2022	SCI & SCOPUS	https://www.sciencedirect.com/science/article/abs/pii/S1386947722000388#:~:text=One%20da,ngerous%20contaminants,from%20pollutant%20soot%20from%20bicycles.
17.	Anticancer and antimicrobial evaluation of novel	R. Balan & Department of Physics, Chikkanna	V. Gayathri, R. Priya, Department of Physics, KPR	Polymer Bulletin	Vol. 79, 10625-10638, 2022	SCI & SCOPUS	https://link.springer.com/article/10.1

	conductive ZnO ₂ doped polymer patches for cancer treatment and tissue engineering applications	Government Arts College	Institute of Engineering and Technology, Department of Physics, Chikkanna Government Arts College				007/soc 289-021-04001-4
18.	Hydrothermal synthesis and characterization of znO, mgo and znO/mgo nanocomposites	S.Bhuvanewari & Department of Physics, KPR Institute of Engineering and Technology	S. Satheeskumar, Jeevanantham Velayutham, Bavaji Syed Rahman & Department of Nanoscience and Technology, K.S. Rangasamy College of Technology, Department of Chemistry, Vivekanandha College of Arts and Sciences for Women, PG and Research Department of Chemistry, Jamal Mohamed College	RASAYAN Journal of Chemistry	Vol.14 (3), 1581-1586, 2021	SCOPUS	https://rasayanjournal.co.in/admin/php/upload/3239_pdf.pdf
19.	Natural tannic acid (green tea) mediated synthesis of ethanol sensor based Fe ₃ O ₄ nanoparticles: Investigation of structural, morphological, optical properties and colloidal stability for gas sensor application	S. Ananthi & Department of Physics, The Madura College, Madurai	M. Kavitha, E. Ranjith Kumar, A. Balamurugan, Y. Al-Douri, Hanan K. Alzahrani, Ali A. Keshk g, Turki M. Habeebullah, Shams H. Abdel-Hafez, Nashwa M. El-Metwaly & Department of Physics, KPR Institute of Engineering and Technology, Department of Physics, Government Arts and Science College, Engineering Department, American University of Iraq-Sulaimani, Department of Mechatronics Engineering, Faculty of Engineering and Natural Sciences, Bahcesehir University,	Sensors and Actuators B: Chemical	Vol. 352 (2), 131071,2022	SCI & SCOPUS	https://www.sciencedirect.com/science/article/pii/S0925400521016397

			Department of Chemistry, Faculty of Applied Science, Umm-Al-Qura University, Department of Chemistry, College of Science, University of Tabuk, Department of Environment and Health Research, Custodian of Two Holy Mosques Institute for Hajj and Umrah Research, Umm-Al-Qura University, Department of Chemistry, College of Science, Taif University, Department of Chemistry, Faculty of Science, Mansoura University				
20.	Preparation of bath temperature controlled NiFeP films for MEMS application	A. Kalaivani & Department of Physics, KPR Institute of Engineering And Technology	Mohanbabu Bharath, R. Kannan, G. Senguttuvan, V. Sivakumar, D. Nithiyaprakash, Donghui Guo & National Model Institute of Microelectronics, Xiamen University, Department of Science and Humanities, Kumaraguru College of Technology, Department of Physics, UCE- BIT Campus, Anna University, Department of Science and Humanities, PPG College of Technology	Solid State Communications	Vol. 347, 114715, 2022	SCOPUS, SCIE	https://www.sciencedirect.com/science/article/abs/pii/S0038109822000618
21.	Meticulous Review on Potential Nano - Sized Catalysts for Air and Water Purifiers	P Vivek & Sri Sankara Arts & Science College (Autonomous)	M Rekha, Ananth Stephen , M Kowsalya, M Magesh & Department of ICE, Sri Manakula Vinayagar Engineering	Iranian Journal of catalysis	Vol. 11(4), 331-345, 2021	SCOPUS	https://ijc.shahrezai.iau.ir/article_687525.html#:~:text=Nano%20%E2%80%93%20sized%20catalyst%20is%20used,antibioti

			College, Department of Physics, KPR Institute of Engineering and Technology, School of Electrical Engineering, Department of Energy and Power Electronics, Vellore Institute of Technology, Institute of Materials Research, Washington State University				cs%20in%20water%20and%20soil.
22.	Diamond morphology CuO nanomaterial elastic properties, ADMET, optical, structural studies, electrical conductivity and antibacterial activities analysis	P. Vivek & Department of Physics, Sri Sankara Arts & Science College	M. Rekha, A. Suvitha, M. Kowsalya, Ananth Steephen & school of Electrical Engineering, Department of Energy and Power Electronics, Vellore Institute of Technology, Vellore, Department of Physics, CMR Institute of technology, School of Electrical Engineering, Department of Energy and Power Electronics, Vellore Institute of Technology, Department of Physics, KPR Institute of Engineering and Technology	Inorganic and Nano-Metal Chemistry	Vol. 55(9), 1243-1255, 2022	SCOPUS , SCIE	https://www.tandfonline.com/doi/abs/10.1080/24701556.2022.2046610
23.	Continuum time-delayed electron hopping in the extended dynamical molecules and entropy-ruled Einstein relation for organic semiconductors	K Navamani & Department of Physics, Centre for Research and Development (CFRD), KPR Institute of Engineering and Technology,		Journal of Physics Communications	Vol. 5, 075012, 2021	SCOPUS, E SCI	https://iopscience.iop.org/article/10.1088/2399-6528/ac13b5/meta
24.	Shielding performance of $Mn_xNi_{0.8-x}Zn_{0.2}Fe_2O_4$ for electromagnetic	Ch Srinivas & Nanomaterials and Nanomagnetism Research Laboratory,	K. Naga Praveen, E. Ranjith Kumar, T.V. Chandrasekhar Rao , C.L. Prajapat , Sher Singh Meena,	Ceramics International	Vol.48 (7), 9987-9997, 2022	SCI & SCOPUS	https://www.sciencedirect.com/science/article/abs/pii/S

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	interference (EMI) in X-band frequency	Department of Physics, Sasi Institute of Technology & Engineering	Pramod Bhatt, B. Arun, K.C. James Raju, D.L. Sastry & Department of Physica, KPR Institute of Engineering and Technology, Technical Physics Division, Bhabha Atomic Research Centre, Homi Bhabha National Institute, Anushkatinagar, old State Physics Division, Bhabha Atomic Research Centre, School of Physics, University of Hyderabad, Department of Physics, Andhra University				027288422103988 2
25.	Citrus limon assisted green synthesis of MgO nanoparticles: Evaluation of phase, functional groups, surface morphology, thermal stability and colloidal stability	R. Vandamar Poonguzhali & Department of Chemistry, Dr. N.G.P. Institute of Technology	M. Srimathi, E. Ranjith Kumar, N. Arunadevi, Hosam O. Elansary, Ashraf A.A. Abdelbacki, Shaimaa A.M. Abdelmohsen & Department of Chemistry, PSGR Krishnammal College for Women, Department of Physics, KPR Institute of Engineering and Technology, Plant Production Department College of Food and Agricultural Sciences, King Saud University, Plant Pathology Department, Faculty of Agriculture, Cairo University, Department of Physics, College of Science, Princess Nourah bint Abdulrahman University	Ceramics International	Vol. 48 (19), 27774-27778	SCI & SCOPUS	https://www.sciencedirect.com/science/article/abs/pii/S0272884222020703
26.	Bio-ingredients assisted synthesis of Fe doped zinc oxide nanostructures:	B. Ranjithkumar & Department of Physics, Sri Ranganathar	E. Ranjith Kumar, H.B. Ramalingam, C. Sharmila Rahale, Mohamed H.H.	Ceramics International	Vol. 47 (24), 35378-35383, 2021	SCI & SCOPUS	https://www.sciencedirect.com/science/article/abs/pii/S

	Study on structural, optical, morphological and thermal properties	Institute of Engineering and Technology	Mahmoud, Adel M. Binyaseen , Ali A. Keshk, Nashwa M. El-Metwaly & Department of Physics, KPR Institute of Engineering and Technology, Department of Physics, Government Arts College, Udumalpet, Department of Nanoscience and Technology, Tamilnadu Agricultural University, Department of Chemistry, College of Science, Taif University, Department of Islamic Architecture, College of Engineering and Islamic Architecture, Umm Al-Qura University, Department of Chemistry, College of Science, University of Tabuk, Department of Chemistry, Faculty of Applied Science, Umm-Al-Qura University, Department of Chemistry, Faculty of Science, Mansoura University				027288422102723 1
27.	Natural citric acid assisted synthesis of CuO nanoparticles: Evaluation of structural, optical, morphological properties and colloidal stability for gas sensor applications	R. Vandamar Poonguzhali & Department of Chemistry, Dr. N.G.P. Institute of Technology	E. Ranjith Kumar, N. Arunadevi, Ch. Srinivas, Mohamed. Khalifa, Sraa Abu-Melha, Nashwa M. El-Metwaly & Department of Chemistry, PSGR Krishnammal College for Women, Department of Physics, KPR Institute of Engineering and Technology, Nanomaterials and Nanomagnetism	Ceramics International	Vol. 48 (18), 26287- 26293, 2022	SCI & SCOPUS	https://www.sciencedirect.com/science/article/abs/pii/S027288422201896X

			Research Laboratory, Department of Physics, Sasi Institute of Technology & Engineering, Department of Chemistry, College of Science, Taif University, Department of Chemistry, Faculty of Science, King Khalid University, Department of Chemistry, Faculty of Applied Science, Umm-Al-Qura University, Department of Chemistry, Faculty of Science, Mansoura University				
28.	Comparative investigation of physicochemical properties of cadmium oxide nanoparticles	Alaa Munshi & Department of Chemistry, Faculty of Applied Science, Umm-Al-Qura University	T. Prakash, E. Ranjith Kumar, A. Balamurugan, Turki M. Habeebullah, Tahani M. Bawazeer, Shams H. Abdel-Hafez, Nashwa M. El-Metwaly a, T. Indumathi & Key Laboratory of Colloid and Interface Chemistry, Ministry of Education, School of Chemistry and Chemical Engineering, State Key Laboratory of Crystal Materials, Shandong University, Department of Physics, KPR Institute of Engineering and Technology, Department of Physics, Government Arts and Science College, Department of Environment and Health Research, Custodian of Two Holy Mosques	Ceramics International	Vol. 48 (3), 4134-4140, 2022	SCI & SCOPUS	https://www.sciencedirect.com/science/article/abs/pii/S0272884221033460

			Institute for Hajj and Umrah Research, Umm-Al-Qura University, Department of Chemistry, College of Science, Taif University, Department of Chemistry, Faculty of Science, Mansoura University, Department of Chemistry, PSG College of Technology				
29.	Effect of heat treatment on structural, morphological, dielectric and magnetic properties of Mg-Zn ferrite nanoparticles	R. Shunmuga Priya & Department of Physics, Emerald Heights College for Women	Priyanka Chaudhary, E. Ranjith Kumar, A. Balamurugan, Ch. Srinivas , G. Prasad , M. Dcepty , V. Praveenkumar , B.C. Yadav , D.L. Sastry, Y. Al-Douri & Nanomaterials and Sensors Research Laboratory, Department of Physics, Babasaheb Bhimrao Ambedkar University, Department of Physics, KPR Institute of Engineering and Technology, Department of Physics, Government Arts and Science College, Nanomaterials and Nanomagnetism Research Laboratory, Department of Physics, Sasi Institute of Technology & Engineering, Department of Physics, Dr. N.G.P. Institute of Technology, Department of Physics, Andhra University, Engineering Department,	Ceramics International	Vol.48 (11), 15243-15251, 2022	SCI & SCOPUS	https://www.sciencedirect.com/science/article/abs/pii/S0272884222004527

			American University of Iraq-Sulaimani, Department of Mechatronics Engineering, Faculty of Engineering and Natural Sciences, Bahceschir University				
30.	Evaluation of structural, morphological and optical properties of CdO nanostructures	T. Prakash & Key Laboratory of Colloid and Interface Chemistry, Ministry of Education, School of Chemistry and Chemical Engineering, State Key Laboratory of Crystal Materials Shandong University	E. Ranjith Kumar, G. Neri, Tahani M. Bawazcer, Kholood Alkhamis, Alaa Munshi, Salman S. Alharthi, Nashwa M. El-Metwaly & Department of Physics, KPR Institute of Engineering and Technology, Department of Engineering, University of Messina, Department of Chemistry, Faculty of Applied Science, Umm-Al-Qura University, Department of Chemistry, College of Science, University of Tabuk, Department of Chemistry, College of Science, Taif University, Department of Chemistry, Faculty of Science, Mansoura University	Ceramics International	Vol. 48 (1), 1223-1229, 2022	SCI & SCOPUS	https://www.sciencedirect.com/science/article/abs/pii/S0272884221030042
31.	Natural fuel assisted synthesis of Mg-Cu ferrite nanoparticles: Evaluation of structural, dielectric, magnetic and humidity sensing properties	A. Balamurugan & Department of Physics, Government Arts and Science College	R. Shunmuga Priya, Priyanka Chaudhary, E. Ranjith Kumar, T. Indumathi, Ch Srinivas B.C. Yadav, D.L. Sastry & Department of Physics, Emerald Heights College for Women, Nanomaterials and Sensors Research Laboratory, Department of Physics, Babasaheb Bhimrao Ambedkar	Ceramics International	Vol. 48 (4) 4874-4885, 2022	SCI & SCOPUS	https://www.sciencedirect.com/science/article/abs/pii/S0272884221034283

			University, Department of Physics, KPR Institute of Technology & Engineering, Department of Chemistry, PSG College of Technology, Nanomaterials and Nanomagnetism Research Laboratory, Department of Physics, Sasi Institute of Technology & Engineering, Department of Physics, Andhra University				
32.	Preparation and characterization of polyethylenimine functionalized reduced graphene oxide for thermoelectric applications	S. Nanthini & SMart and Innovative Laboratory for Energy Devices (SMILE), Indian Institute of Information Technology Design and Manufacturing (IITDM), Department of Physics, KPR Institute of Engineering and Technology	M. Shalini, Suhasini Sathiyamoorthy, Kumar R, Hiroya Ikeda, Shankar H., Malik Maaza, Pandiyarasan Veluswamy & Department of Electronics and Communication Engineering, SRM Institute of Science and Technology, Research Institute of Electronics, Shizuoka University, UNESCO-UNISA Africa Chair in Nanosciences & Nanotechnology Laboratories (U2AC2N), College of Graduate Studies, University of South Africa, Nanosciences African Network (NANOAFNET), Material Research Department (MRD), iThemba LABS- National Research Foundation, Somerset West, School of Interdisciplinary Design and Innovation (SIDI), Indian Institute of	ECS Journal of Solid State Science and Technology	Vol. 10 (8),081014, 2021	SCIE, SCOPUS	https://iopscience.iop.org/article/10.1149/2162-8777/ac1e6c/meta

			Information Technology Design and Manufacturing (IITDM) Kancheepuram				
33	Investigations of Structural, Morphological, Optical and Antimicrobial Behaviour of Bi Doped CdO Nanostructures	T. Prakash & Department of Physics, KPR Institute of Engineering and Technology	E. Ranjith Kumar, M. G. Sumithra, Kholood Alkhamis, Alaa M. Munshi, Gaber A. M. Mersal, Fathy Shaaban, Nashwa M. El-Metwaly & Department of Physics, KPR Institute of Engineering and Technology, Department of Biomedical Engineering, Dr.N.G.P. Institute of Technology, Department of Chemistry, College of Science, University of Tabuk, Department of Chemistry, Faculty of Applied Science, Umm-Al-Qura University, Department of Chemistry, College of Science, Taif University, Environment and Health Research Department, The Custodian of the Two Holy Mosques Institute for Hajj and Umrah Research, Umm Al-Qura University, Department of Chemistry, Faculty of Applied Science, Umm-Al-Qura University, Department of Chemistry, Faculty of Science, Mansoura University, Mansoura	Journal of Inorganic and Organometallic Polymers and Materials	Vol. 32 280-288, 2022	SCOPUS & SCIE	https://link.springer.com/article/10.1007/s10904-021-02127-6
34.	Experimental, computational analysis of Butcin and Lanceoletin for	M. Bradha & Department of Physics, Rathinam	Nagaraj Balakrishnan, A. Suvitha, T. Arumanayagam, M.	Environment, Development	Vol.24, 8807-8822, 2022	SCOPUS, SCIE	https://link.springer.com/article/10.1

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	natural dye-sensitized solar cells and stabilizing efficiency by IoT	Technical Campus, Coimbatore	Rekha, P Vivek, P Ajay, V Sangeetha & Ananth Steeppen & Department of ECE, Rathinam Technical Campus, Coimbatore, Department of Physics, CMR Institute of Technology, Bengaluru, PG and Research Department of Physics, Pachaiyappa's College, Chennai, Department of ICE, Sri Manakula Vinayagar Engineering College, Puducherry, Department of Physics, Sri Sankara Arts and Science College, Kanchipuram, Department of ECE, Anna University, Chennai, Tamilnadu, Measi Matriculation Higher Secondary School, Chennai, Department of Physics, KPR Institute of Engineering and Technology, Coimbatore,	and Sustainability			007810668-021-01810-5
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Dr. S. ANANTH
Professor and Head
Department of Physics
Kpr Institute of Engineering and Technology
Coimbatore - 641 407.