

List of Publications

2020-2021

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.	Study of structural vibrational, elastic and magnetic properties of uniaxial anisotropic Ni-Zn nanoferrites in the context of cation distribution and magnetocrystalline anisotropy	Ch. Srinivas & Nanomaterials and Nanomagnetism Research Laboratory, Department of Physics, Sasi Institute of Technology & Engineering, Tadepalligudem 534101, Indi	M. Deepty S.A.V. Prasad, G. Prasad, E. Ranjith Kumar, Sher Singh Meena, Naidu V. Seetala, Darnel D. Willams, D.L. Sastry & KPR Institute of Engineering and Technology, Bhabha Atomic Research Centre, Grambling State University, Andhra University	Journal of Alloys and Compounds	Vol.873, 159748, 2021	SCI	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0925838821011579">https://www.sciencedirect.com/science/article/abs/pii/S0925838821011579</a>
2.	Evaluation of Structural, Micro-structural, Vibrational and Elastic Properties of Ni-Cu-Zn Nanoferrites: Role of Dopant Cu <sup>2+</sup> at Constant 0.1 mol% in Ni-Zn Spinel Structure	K. S. Ramakrishna Department of Physics, Srinivasa Institute of Engineering and Technology, Amalapuram, 533 222, India	Ch. Srinivas, S. A. V. Prasad, E. Ranjith Kumar, K. Ramachandra Rao, C. L. Prajapat, T. V. Chandrasekhara Rao, Sher Singh Meena, D. L. Sastry & Sasi Institute of Technology & Engineering, KPR Institute of Engineering and Technology, Government College (A), Rajahmundry, Andhra Pradesh, Bhabha Atomic Research Centre, Mumbai, Andhra University	Journal of Inorganic and Organometallic Polymers and Materials	Vol.31, 1336-1346, 2021	SCIE	<a href="https://link.springer.com/article/10.1007/s10904-020-01773-6">https://link.springer.com/article/10.1007/s10904-020-01773-6</a>
3.	Visible light sensitive hexagonal boron nitride (hBN) decorated Fe <sub>2</sub> O <sub>3</sub> photocatalyst for the degradation of methylene blue	Manjula R. Shenoy & Solid-State Ionics Lab, Department of Applied Physics, Karunya Institute of Technology and Sciences	Sakunthala Ayyasamy, Vidhya Bhojan, Rajesh Swaminathan, Nandhakumar Raju, P. Senthil Kumar, M. Sasikumar, Govindan Kadarkarai, Saravanakumar Tamilarasan, Selvaraju Thangavelu, Suryakanth J, M. V. Reddy	Journal of Materials Science: Materials in Electronics	Vol.32, 4766-4783, 2021	SCI	<a href="https://link.springer.com/article/10.1007/s10854-020-05215-4">https://link.springer.com/article/10.1007/s10854-020-05215-4</a>
4.	Development of organic crystalline nature guanidinium nitrate (GuN): structural, frontier molecular orbital, optical, thermal, mechanical, theoretical and experimental SHG and Z-scan properties for NLO device uses	P. Vivek & Department of Physics, Sri Sankara Arts & Science College (Autonomous), Enathur, Kanchipuram, Tamilnadu, 631 561, India	G. Saravana Kumar, Ananth Steephen, RO. MU. Jauhar, A. Suvitha, M. Rekha, M. Kowsalya, N. Karunakaran & R. Arunkumar & Sri Sankara Arts & Science College, Rajalakshmi Engineering College, KPR Institute of Engineering and Technology, SSN College of Engineering, Anna Adarsh College for Women, Vellore Institute of Technology, SRM Institute of Science and Technology	Journal of Materials Science: Materials in Electronics	Vol. 32, 4493-4504, 2021	SCI	<a href="https://link.springer.com/article/10.1007/s10854-020-05190-w">https://link.springer.com/article/10.1007/s10854-020-05190-w</a>

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5.	Evaluation of gas sensor behaviour of Sm <sup>3+</sup> doped TiO <sub>2</sub> nanoparticles	N. Nithya & Department of Physics, PSGR Krishnammal College for Women, Coimbatore, Tamilnadu, 641004, India	E. Ranjith Kumar, G. Magesh, A. P. Arun, Khlood S. Abou-Melha, Gamila Badr, Nashwa M. El-Metwaly, Gaber A. M. Mersal, C. Sharmila Rahale & PSGR Krishnammal College for Women, KPR Institute of Engineering and Technology, Kumaraguru College of Technology, King Khalid University, Mansoura University, Umm-Al-Qura University, Taif University, Tamilnadu Agricultural University	Journal of Materials Science: Materials in Electronics	Vol. 32, 16854–16865, 2021	SCI	<a href="https://link.springer.com/article/10.1007/s10854-021-06246-1">https://link.springer.com/article/10.1007/s10854-021-06246-1</a>
6.	Growth, optical, dielectric and mechanical properties of benzimidazolium 3,5-dinitrobenzoate single crystals	R. Subramanian @ Raja & Department of Physics, KPR Institute of Engineering and Technology	R. Subash Chandra Bose, A. Arunkumar, G. Vinitha & K. Balasubramanian & The M.D.T Hindu College, Aurora's Scientific Technological and Research Academy, School of Advanced Sciences, VIT Chennai,	Journal of Materials Science: Materials in Electronics	Vol. 32, 2987–2998 2021	SCI	<a href="https://link.springer.com/article/10.1007/s10854-020-05050-7">https://link.springer.com/article/10.1007/s10854-020-05050-7</a>
7.	Growth, thermal, linear and nonlinear optical properties of a novel second-order nonlinear optical crystal: urotropine p-nitrophenol	R. Durgadevi & PG and Research Department of Physics, Pachaiyappa's College, Chennai, 600 030, India	Ananth Steephen, T. Arumanayagam & KPR Institute of Engineering and Technology, Pachaiyappa's College,	Journal of Materials Science: Materials in Electronics	Vol.31,18 683–18691 2020	SCI	<a href="https://link.springer.com/article/10.1007/s10854-020-04410-7">https://link.springer.com/article/10.1007/s10854-020-04410-7</a>
8.	Influence of current density on the physical properties of electroplated NiFeP nano thin films for MEMS applications	A. Kalaivani & Department of Physics, KPR Institute of Engineering and Technology	B. Mohanbabu, R. Kannan, G. Senguttuvan, V. Sivakumar, Donghui Guo & Xiamen University, Kumaraguru College of Technology, Anna University, UCE-BIT campus	Journal of Materials Science: Materials in Electronics	Vol.32, 13610–13618, 2021	SCI	<a href="https://link.springer.com/article/10.1007/s10854-021-05939-x">https://link.springer.com/article/10.1007/s10854-021-05939-x</a>
9.	Determination of SHG d <sub>eff</sub> by Maker fringes studies on unidirectional grown guanidinium chlorochromate single crystal for NLO device applications	P. Vivek & Department of Physics, Sri Sankara Arts & Science College	A. Suvitha, RO. MU. Jauhar, Ananth Steephen, R. Arunkumar, N. Karunakaran, M. Kowsalya, M. Rekha & Anna Adarsh College for Women, Sri Sivasubramaniya Nadar College of Engineering, KPR Institute of Engineering and Technology, SRM Institute of Science and Technology, Ramapuram campus, Vellore Institute of Technology, Vellore, Sri Manakula Vinayagar Engineering College	Journal of Optics	50, 77–82 2021	SCOPUS	<a href="https://link.springer.com/article/10.1007/s12596-020-00664-w">https://link.springer.com/article/10.1007/s12596-020-00664-w</a>
10.	Evaluation of Cu-MgFe <sub>2</sub> O <sub>4</sub> spinel nanoparticles for photocatalytic and antimicrobial activates	Mary George & Department of Chemistry, Stella Maris College	T.L. Ajeesha, A. Manikandan, Ashwini Anantharaman, R.S. Jansi, E. Ranjith Kumar, Y. Slimani, M.A. Almessiere, A. Baykal & Bharath Institute of Higher Education and Research (BIHER), Bharath University, Stella Maris College, KPR Institute of Engineering and Technology, Imam Abdulrahman Bin Faisal University,	Journal of Physics and Chemistry of Solids	Vol. 153, 110010, 2021	SCIE	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0022369721000767">https://www.sciencedirect.com/science/article/abs/pii/S0022369721000767</a>



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11.	Evaluation of curcumin assistance in the antimicrobial and photocatalytic activity of a carbon based TiO <sub>2</sub> nanocomposite	V. Suba & Department of Chemistry, P. S. G. College of Arts and Science	M. Saravanabhavan, Lakkaboyana Sivarama Krishna, Shaik Kaleemulla, E. Ranjith Kumar, G. Rathika & Sri Ramakrishna Mission Vidhyalaya College of Arts and Science, Chulalongkorn University, Vellore Institute of Technology, KPR Institute of Engineering and Technology	New Journal of Chemistry	Vol. 44, 15895-15907, 2020	Scopus	<a href="https://doi.org/10.1039/D0NJ02346A">https://doi.org/10.1039/D0NJ02346A</a>
12.	Evaluation of structural, surface morphological and thermal properties of Ag-doped ZnO nanoparticles for antimicrobial activities	B. Ranjithkumar & Sri Ranganathar Institute of Engineering and Technology	E. Ranjith Kumar, M. Srinivas, H.B. Ramalingam, Ch. Srinivas, G. Magesh, A. Balamurugan, Sharmila Rahal, B. ChandarShekar	Physica E: Low-dimensional Systems and Nanostructures	Vol. 133, 114801, 2021	SCI	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1386947721001843">https://www.sciencedirect.com/science/article/abs/pii/S1386947721001843</a>
13.	In-vitro and antibacterial activities of novel POT/TiO <sub>2</sub> /PCL composites for tissue engineering and biomedical applications	R. Balan & Department of Physics, Chikkanna Government Arts College	V. Gayathri & KPR Institute of Engineering and Technology	Polymer Bulletin	Vol. 79, 4269-4286, 2021	SCI	<a href="https://link.springer.com/article/10.1007/s00289-021-03707-9">https://link.springer.com/article/10.1007/s00289-021-03707-9</a>
14.	Studies on 4-dimethylaminopyridinium salicylate monohydrate's optical, mechanical, and laser damage threshold	A. Arun kumar & Department of Physics, Methodist College of Engineering and Technology	A. Rathika, R. Subramaniyan Raja, R. Subash Chandra Bose, K. Balasubramanian & Muslim Arts College, KPR Institute of Engineering and Technology, The M.D.T Hindu College,	Solid State Communications	Vol. 334-335, 2021, 114347	SCIE	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0038109821001502">https://www.sciencedirect.com/science/article/abs/pii/S0038109821001502</a>
15.	Evaluation of phase, morphological, optical and electrical properties of microwave synthesized Sn doped CdO nanostructures	T. Prakash & Department of Physics, KPR Institute of Engineering and Technology,	E. Ranjith Kumar, K. Gnanamoorthi, Alaa M. Munshi, Samar J. Almeahmadi, Gaber A.M. Mersal, Nashwa M. El Metwaly & Government Arts and Science College, Umm-Al-Qura University, Makkah, Saudi Arabia, College of Science, Taif University, Faculty of Science, Mansoura University	Solid State Communications	Vol. 336, 114388, 2021	SCIE	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0038109821001873">https://www.sciencedirect.com/science/article/abs/pii/S0038109821001873</a>
16.	Humic acid involved chelation of ZnO nanoparticles for enhancing mineral nutrition in plants	C. Sharmila Rahale & Department of Nanoscience and Technology, Tamilnadu Agricultural University	A. Lakshmanan, M.G. Sumithra, E. Ranjith Kumar & KPR Institute of Engineering and Technology	Solid State Communications	Vol. 333, 114355, 2021	SCIE	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0038109821001587#text=Humic%20acid%20has%20been%20used%20blended%20ZnO%20nanoparticles">https://www.sciencedirect.com/science/article/abs/pii/S0038109821001587#text=Humic%20acid%20has%20been%20used%20blended%20ZnO%20nanoparticles</a>
17.	Lemon juice (natural fuel) assisted synthesis of MgO nanorods for LPG gas sensor applications	R. Vandamar Poonguzhali & Department of Chemistry, Dr. N.G.P. Institute of Technology	E. Ranjith Kumar, T. Pushpagiri, Ananth Steephen, N. Arunadevi, S. Baskoutas & KPR Institute of Engineering and Technology, PSGR Krishnammal College for Women, University of Patras	Solid State Communications	Vol. 325, 114161, 2021	SCIE	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0038109820306566">https://www.sciencedirect.com/science/article/abs/pii/S0038109820306566</a>

18.	Structural, optical, thermal, biological and molecular docking studies of guanidine based naphthoate metal complexes	N. Arunadevi & Department of Chemistry, PSGR Krishnammal College for Women	M. Swathika , B. Prabha Devi , P. Kanchana, S. Shanmuga Sundari, S. Jone Kirubavathy , P. Subhapriya , E. Ranjith Kumar , & Bannari Amman Institute of Technology, KPR Institute of Engineering and Technology	Surfaces and Interfaces	Vol. 24,10109 4,2021	SCOPUS	<a href="https://www.sciencedirect.com/science/article/abs/pii/S2468023021001711">https://www.sciencedirect.com/science/article/abs/pii/S2468023021001711</a>
19.	Effects of Nd doping on structural, optical, morphological and surface-chemical state analysis of ZnO nanoparticles for antimicrobial and anticancer activities	T. Indumathi & Department of Chemistry, PSG College of technology	C. Theivarasu , I. Pradeep, M. Thillai Rani, G. Magesh, C. Sharmila Rahale, E. Ranjith Kumar & Sri Krishna College of Engineering and Technology, Dr.N.G.P. Institute of Technology, SGR Krishnammal College for Women, Tamilnadu Agricultural University, KPR Institute of Engineering and Technology	Surfaces and Interfaces	Vol. 23, 101000, 2021	SCOPUS	<a href="https://www.sciencedirect.com/science/article/abs/pii/S2468023021000778">https://www.sciencedirect.com/science/article/abs/pii/S2468023021000778</a>
20.	Synthesis, growth, structural, spectral and optical studies on 2-amino-4-picolinium 4-hydroxybenzoate single crystals	R. Subramaniyan @ Raja & Department of Physics, KPR Institute of Engineering and Technology	M. Antony Lilly Grace , A. Arun kumar, H. Shankar, R. Subash Chandra Bose, K. Balasubramanian, G. Vinitha & CMR Institute of Technology, Methodist College of Engineering and Technology, The M.D.T Hindu College, School of Advanced Sciences, VIT Chennai,	Materials Today Proceedings	Vol. 47 (14), 4772-4777, 2021	Scopus	<a href="https://www.sciencedirect.com/science/article/abs/pii/S2214785321043066">https://www.sciencedirect.com/science/article/abs/pii/S2214785321043066</a>
21.	Nucleation, dielectric, and ferro electric studies of potassium succinate succinic acid (KSSA) crystals	A. Arun Kumar & Department of Physics, Methodist College of Engineering and Technology	M. Antony Lilly Grace , R. Subramaniyan@raja , S. Rama , G. Pragadeeswari & CMR Institute of Technology, KPR Institute of Engineering and Technology, St. Joseph's College of Engineering, Jamal Mohamed College	Materials Today Proceedings	Vol. 47 (14),4852 -4860, 2021	SCOPUS	<a href="https://www.sciencedirect.com/science/article/abs/pii/S221478532104382">https://www.sciencedirect.com/science/article/abs/pii/S221478532104382</a>
22.	Organic piperazine p-nitrophenol (PPN) single crystal growth and characterization	A. Rathika & Department of Physics and Research Centre, Muslim Arts College	M. Antony Lilly Grace, A. Arun kumar, R. Subramaniyan (@ Raja), R. Suja & CMR Institute of Technology, Methodist College of Engineering and Technology, KPR Institute of Engineering and Technology	Materials Today Proceedings	Vol. 47 (14),4741 -4745, 2021	SCOPUS	<a href="https://www.sciencedirect.com/science/article/abs/pii/S2214785321042905">https://www.sciencedirect.com/science/article/abs/pii/S2214785321042905</a>
23.	Quantitative experimental and theoretical research using the DFT technique on the structural, UV, electronic, and fmo properties of gammadene	Athisaya Rajah Suvitha & Department of Physics, CMR Institute of Technology	Nookala Yuvaraj Maharani, Hrishikesh Kayarthaya Karikkad, Karatholuvu Chandrasekar Varun, , Ananth Steephen & Gopalan College of Engineering, CMR Institute of Technology, KPR Institute of Engineering and Technology	Biointerface Research in Applied Chemistry	Vol. 11(6), 14240-14250, 2021	Scopus	<a href="https://biointerface.research.com/wp-content/uploads/2021/03/20695837116.1424014250.pdf">https://biointerface.research.com/wp-content/uploads/2021/03/20695837116.1424014250.pdf</a>
24.	CdO nanoparticles induced structural, thermal, surface morphological and electrical properties of Nylon-6	Pratheeka Teggimata & Department of physics, Mangalore University	V. Ravindrachary, B. K. Mahantesha, R. Sahanakumar, R. Ramani, T. M. Kotresh, S. Ananth & Defence Bio-Engineering and Electromedicallaboratory, ADE Campus, C.V. Raman Nagar, Bangalore, KPR Institute of Engineering andTechnology,	AIP Conference Proceedings	Vol. 2244,070 022, 2020	SCOPUS	<a href="https://doi.org/10.1063/5.0009367">https://doi.org/10.1063/5.0009367</a>
25.	Green synthesis of SnO2 nanoparticles	K. C. Suresh & Department	S. Surendhiran, P. Manoj Kumar, E. Ranjith Kumar, Y. A. Syed Khadar, A. Balamurugan &	SN Applied Sciences	Vol.2,173 5, 2020	SCOPUS	<a href="https://link.springer.com/article/">https://link.springer.com/article/</a>



	using Delonix elata leaf extract: Evaluation of its structural, optical, morphological and photocatalytic properties	of Physics, Research and Development Centre, Bharathiar University	Centre for Nanoscience and Technology, KS Rangasamy College of Technology, Department of Physics, KPR Institute of Engineering and Technology, Department of Physics, KS Rangasamy Arts and Science College for Women, Department of Physics, Government Arts and Science College				10.1007/s12452-020-03534-z
26.	Surfactant effects on structural, optical and morphological characteristics of microwave irradiated CdO nanostructures	T. Prakash & Department of Physics, KPR Institute of Engineering and Technology	E. Ranjith Kumar, D. Murugesan, Kholood Alkhamis , Zehba A. Al-Ahmed, Fawaz Saad , Gaber A.M. Mersal , Nashwa M. El-Metwaly & KPR Institute of Engineering and Technology, Department of Nano-science and Technology, Bharathiar University, University of Tabuk, King Khalid University, Umm-Al-Qura University, Taif University, Mansoura University	Ceramics International	Vol. 47 (19), 27274-27284, 2021	SCI	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0272884221018940">https://www.sciencedirect.com/science/article/abs/pii/S0272884221018940</a>
27.	Evaluation of structural, dielectric and electrical humidity sensor behaviour of MgFe <sub>2</sub> O <sub>4</sub> ferrite nanoparticles	R. Shunmuga Priya & Department of Physics, Emerald Heights College for Women	Priyanka Chaudhary, E. Ranjith Kumar , A. Balamurugan, Ch. Srinivas, G. Prasad , B.C. Yadav, D.L. Sastry & Babasaheb Bhimrao Ambedkar University, KPR Institute of Technology & Engineering, Government Arts and Science College, Sasi Institute of Technology & Engineering, Andhra University	Ceramics International	Vol. 47 (11), 15995-16008, 2021	SCI	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0272884221005496">https://www.sciencedirect.com/science/article/abs/pii/S0272884221005496</a>
28.	Natural citric acid (lemon juice) assisted synthesis of ZnO nanostructures: Evaluation of phase composition, morphology, optical and thermal properties	R. Vandamar Poonguzhali & Department of Chemistry, Dr. N.G.P. Institute of Technology	E. Ranjith Kumar, M.G. Sumithra, N. Arunadevi, C. Sharmila Rahale, Alaa M Munshi, Gaber A.M. Mersal, Nashwa M. El-Metwaly & Department of Physics, KPR Institute of Engineering and Technology, Department of Electronics and Communication Engineering, KPR Institute of Engineering and Technology, PSGR Krishnammal College for Women, amilnadu Agricultural University, Umm-Al-Qura University, Taif University, Mansoura University	Ceramics International	Vol. 47 (16), 23110-23115, 2021	SCI	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0272884221014085">https://www.sciencedirect.com/science/article/abs/pii/S0272884221014085</a>
29.	Natural fuels (Honey and Cow urine) assisted combustion synthesis of zinc oxide nanoparticles for antimicrobial activities	B. Ranjithkumar & Department of Physics, Sri Ranganathar Institute of Engineering and Technology	H.B. Ramalingam, E. Ranjith Kumar, Ch. Srinivas, G. Magesh, C. Sharmila Rahale , Nashwa M. El-Metwaly , B. Chandar Shekar & Department of Physics, Government Arts College, Department of Physics, KPR Institute of Engineering and Technology, Sasi Institute of Technology & Engineering, PSGR Krishnammal College for Women, Tamilnadu Agricultural University, Umm Al-Qura University, Mansoura University, Kongunadu Arts and Science College,	Ceramics International	Vol. 47 (10), 14475-14481, 2021	SCI	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0272884221003734">https://www.sciencedirect.com/science/article/abs/pii/S0272884221003734</a>

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30.	Nonlinear optical crystalline nature bis (2,6-diaminopyridinium) hydrogen phthalate nitrate monohydrate (APPN): Development and its phase matching nature	P. Vivek & Department of Physics, Sri Sankara Arts & Science College (Autonomous)	M. Rekha, Ananth Stephen, RO. MU. Jauhar, G. Saravana Kumar, A. Suvitha, N. Karunakaran, M. Kowsalya & School of Electrical Engineering, Department of Energy and Power Electronics, Vellore Institute of Technology, Department of Instrumentation and Control Engineering (Autonomous), Sri Manakula Vinayagar Engineering College, Department of Physics, KPR Institute of Engineering and Technology, Coimbatore, Department of Physics, Rajalakshmi Engineering College (Autonomous), Thandalam, Department of Physics, CMR Institute of Technology, Department of Physics, SRM Institute of Science and Technology, Ramapuram campus, Bharathi salai,	Results in Optics	Vol.3, 100075, 2021	Scopus	<a href="https://www.sciencedirect.com/science/article/pii/S2666950121000237">https://www.sciencedirect.com/science/article/pii/S2666950121000237</a>
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