



Sri Ramakrishna Mission Vidyalaya College of Arts and Science
Coimbatore - 641 020
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Internal Quality Assurance Cell

3.4 Research Publications and Awards

3.4.5/3.4.6 Bibliometric of the Publications / H-index

Web of Science Indexed Publications

Authors	Title	Journal Title	Publication Year	Volume	Issue	DOI	Total Citations
2021							
Gunasekaran, S.; Thangaraju, D.; Marnadu, R.; Chandrasekaran, J.; Shkir, Mohd; Durairajan, A.; Valente, M. A.; Alshaharani, T.; Elango, M.	Photosensitive activity of fabricated core-shell composite nanostructured p-CuO@CuS/n-Si diode for photodetection applications	SENSORS AND ACTUATORS A-PHYSICAL	2021	317		10.1016/j.sna.2020.112373	14
Govindaraj, T.; Mahendran, C.; Manikandan, V. S.; Archana, J.; Shkir, Mohd; Chandrasekaran, J.	Fabrication of WO ₃ nanorods/RGO hybrid nanostructures for enhanced visible-light-driven photocatalytic degradation of Ciprofloxacin and Rhodamine B in an ecosystem	JOURNAL OF ALLOYS AND COMPOUNDS	2021	868		10.1016/j.jallcom.2021.159091	13
Muthaiah, Subramanian; Baleanu, Dumitru; Thangaraj, Nandha Gopal	Existence and Hyers-Ulam type stability results for nonlinear coupled system of Caputo-Hadamard type fractional differential equations	AIMS MATHEMATICS	2021	6	1	10.3934/math.2021012	13
Govindaraj, T.; Mahendran, C.; Marnadu, R.; Shkir, Mohd; Manikandan, V. S.	The remarkably enhanced visible-light-photocatalytic activity of hydrothermally synthesized WO ₃ nanorods: An effect of Gd doping	CERAMICS INTERNATIONAL	2021	47	3	10.1016/j.ceramint.2020.10.004	11
Haribabu, Jebiti; Alajrawy, Othman I.; Jeyalakshmi, Kumaramangalam; Balachandran, Chandrasekar; Krishnan, Dhanabalan Anantha; Bhuvanesh, Nattamai; Aoki, Shin; Natarajan, Karuppanan; Karvembu, Ramasamy	N-substitution in isatin thiosemicarbazones decides nuclearity of Cu(II) complexes - Spectroscopic, molecular docking and cytotoxic studies	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	2021	246		10.1016/j.saa.2020.118963	9

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Thilagavathi, T.; Venugopal, D.; Marnadu, R.; Chandrasekaran, J.; Alshahrani, T.; Shkir, Mohd	An Investigation on Microstructural, Morphological, Optical, Photoluminescence and Photocatalytic Activity of WO(3)for Photocatalysis Applications: An Effect of Annealing	JOURNAL OF INORGANIC AND ORGANOMETALIC POLYMERS AND MATERIALS	2021	31	3	10.1007/s10904-020-01731-2	9
Balasubramani, V; Chandrasekaran, J.; Manikandan, V; Le, Top Khac; Marnadu, R.; Vivek, P.	Upgraded photosensitivity under the influence of Yb doped on V2O5 thin films as an interfacial layer in MIS type Schottky barrier diode as photodiode application	JOURNAL OF SOLID STATE CHEMISTRY	2021	301		10.1016/j.jssc.2021.122289	8
Ragupathi, P.; Muhammad, Taseer; Islam, Saeed; Wakif, Abderrahim	Application of Arrhenius kinetics on MHD radiative Von Karman Casson nanofluid flow occurring in a Darcy-Forchheimer porous medium in the presence of an adjustable heat source	PHYSICA SCRIPTA	2021	96	12	10.1088/1402-4896/ac297c	7
Bhuvaneswari, S.; Seetha, M.; Chandrasekaran, J.; Marnadu, R.; Masuda, Yoshitake; Aldossary, Omar M.; Ubaidullah, Mohd	Fabrication and characterization of p-Si/n-In2O3 and p-Si/n-ITO junction diodes for optoelectronic device applications	SURFACES AND INTERFACES	2021	23		10.1016/j.surfin.2021.100992	7
Vinoth, S.; Sivasamy, R.; Sathiyathan, K.; Rajchakit, Grienggrai; Hammachukiattikul, P.; Vadivel, R.; Gunasekaran, Nallappan	Dynamical analysis of a delayed food chain model with additive Allee effect	ADVANCES IN DIFFERENCE EQUATIONS	2021	2021	1	10.1186/s13662-021-03216-z	6
Manikandan, V.; Sikarwar, S.; Yadav, B. C.; Vigneselvan, S.; Mane, R. S.; Chandrasekaran, J.	Ultra-sensitive behaviour of ruthenium-doped nickel ferrite thin film humidity sensor	JOURNAL OF EXPERIMENTAL NANOSCIENCE	2021	16	1	10.1080/17458080.2021.1873385	6

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Narayanamoorthy, Samayan; Ramya, L.; Kalaiselvan, Samayan; Kureethara, Joseph Varghese; Kang, Daekook	Use of DEMATEL and COPRAS method to select best alternative fuel for control of impact of greenhouse gas emissions	SOCIO-ECONOMIC PLANNING SCIENCES	2021	76		10.1016/j.seps.2020.100996	5
Suganya, B.; Maruthamuthu, S.; Chandrasekaran, J.; Saravanakumar, B.; Vijayakumar, E.; Marnadu, R.; Al-Enizi, Abdullah M.; Ubaidullah, Mohd	Design of zinc vanadate (Zn ₃ V ₂ O ₈)/nitrogen doped multiwall carbon nanotubes (N-MWCNT) towards supercapacitor electrode applications	JOURNAL OF ELECTROANALYTICAL CHEMISTRY	2021	881		10.1016/j.jelechem.2020.114936	5
Hakeem, A. K. Abdul; Kirusakthika, S.; Ganga, B.; Khan, M. Ijaz; Nayak, M. K.; Muhammad, Taseer; Khan, Sami Ullah	Transverse magnetic effects of hybrid nanofluid flow over a vertical rotating cone with Newtonian/non-Newtonian base fluids	WAVES IN RANDOM AND COMPLEX MEDIA	2021			10.1080/17455030.2021.1983236	4
Balasubramani, V.; Chandrasekaran, J.; Manikandan, V.; Le, Top Khac; Marnadu, R.; Vivek, P.	Improved photodetector performance of high-k dielectric material (La) doped V ₂ O ₅ thin films as an interfacial layer in Schottky barrier diodes	SURFACES AND INTERFACES	2021	25		10.1016/j.surfin.2021.101297	4
Sasikala, T.; Shanmugasundaram, K.; Thirunavukkarasu, P.; Chandrasekaran, J.; Vivek, P.; Marnadu, R.; Manthrammel, M. Aslam; Gunasekaran, S.	Characterization of Jet nebulizer spray pyrolysis coated MoS ₂ thin films and fabrication of p-Si/n-MoS ₂ junction diodes for optoelectronic application	INORGANIC CHEMISTRY COMMUNICATIONS	2021	130		10.1016/j.inoch.2021.108701	4
Marnadu, R.; Chandrasekaran, J.; Nguyen, Tien Dai; Chang, J. H.; Mohanraj, K.; Alshahrani, T.; Shkir, Mohd.; Kathirvel, P.	A Facile Fabrication, Microstructural, Optical, Photoluminescence and Electrical Properties of Ni@CeO ₂ Films and p-Si/n-NDC Diodes for Photodetection Application	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2021	31	6	10.1007/s10904-021-01965-8	4

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Mohanraj, K.; Chang, J. H.; Balasubramanian, D.; Chandrasekaran, J.; Marnadu, R.; Babu, Balraj; Kumar, N. Senthil; Chandrasekar, Sivakumar	Effect of Ti on microstructural and optoelectrical characteristics of Ti-CdO NPs prepared with microwave irradiation techniques for application of the n-TiCdO/p-Si photodetector	JOURNAL OF ALLOYS AND COMPOUNDS	2021	888		10.1016/j.jallcom.2021.161568	3
Thirunavukkarasu, Gokul Sidarth; Seyedmahmoudian, Mehdi; Chandran, Jaideep; Stojcevski, Alex; Subramanian, Maruthamuthu; Marnadu, Raj; Alfaify, S.; Shkir, Mohd	Optimization of Mono-Crystalline Silicon Solar Cell Devices Using PC1D Simulation	ENERGIES	2021	14	16	10.3390/en14164986	3
Paul, M. Justin; Suresh, R.; Valavan, K. Thirumal; Marnadu, R.; Vidhya, M.; Ahmad, Nafis; Alshehri, A. M.; Gedi, Sreedevi	Enhancement in the sensitivity of photo-detector performance of CuO-Gd2O3 dual phase nanocomposites	JOURNAL OF ALLOYS AND COMPOUNDS	2021	886		10.1016/j.jallcom.2021.161196	3
Abhiram, N.; Thangaraju, D.; Marnadu, R.; Santhana, V.; Chandrasekaran, J.; Gunasekaran, S.; Alshahrani, T.; Ali, H. Elhosiny; Shkir, Mohd.; Devi, N. S. M. P. Latha	Fabrication of NiS decorated hollow SnS nano-belts based photodiode for enhanced optoelectronic applications	JOURNAL OF NANOPARTICLE RESEARCH	2021	23	4	10.1007/s11051-021-05185-6	3
Sengottuvelu, Dineshkumar; Athianna, Muthusamy; Siddeswaran, Anand	High temperature stable conjugated polyazomethines containing naphthalene moiety: Synthesis, characterization, optical, electrical and thermal properties	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	2021	246		10.1016/j.saa.2020.118989	3

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Govindaraj, T.; Mahendran, C.; Manikandan, V. S.; Archana, J.; Navaneethan, M.	Enhanced visible-light-driven photocatalytic activity of Ce doped WO ₃ nanorods for Rhodamine B dye degradation	MATERIALS LETTERS	2021	305		10.1016/j.matlet.2021.130705	2
Gowtham, B.; Balasubramani, V.; Ramanathan, S.; Ubaidullah, Mohd; Shaikh, Shoyebmohamad F.; Sreedevi, Gedi	Dielectric relaxation, electrical conductivity measurements, electric modulus and impedance analysis of WO ₃ nanostructures	JOURNAL OF ALLOYS AND COMPOUNDS	2021	888		10.1016/j.jallcom.2021.161490	2
Vinoth, S.; Sivasamy, R.; Sathiyathan, K.; Unyong, Bundit; Rajchakit, Grienggrai; Vadivel, R.; Gunasekaran, Nallappan	The dynamics of a Leslie type predator-prey model with fear and Allee effect	ADVANCES IN DIFFERENCE EQUATIONS	2021	2021	1	10.1186/s13662-021-03490-x	2
Harishsenthil, P.; Chandrasekaran, J.; Marnadu, R.; Balasubramani, V	Incorporation of Zn ions on high dielectric HfO ₂ thin films by spray pyrolysis and fabrication of Al/Zn@HfO ₂ /n-Si Schottky barrier diodes	SENSORS AND ACTUATORS A-PHYSICAL	2021	331		10.1016/j.sna.2021.112725	2
Amsaraj, C.; Bharathikannan, R.; Muthuraja, P.; Rajkumar, M.	Analyzing integrated pi...pi, C-H center dot center dot center dot pi and hydrogen bonding interactions in N, N-Dimethyl-4-aminopyridinium benzilate	JOURNAL OF MOLECULAR STRUCTURE	2021	1242		10.1016/j.molstruc.2021.130717	2
Gowtham, B.; Ponnuswamy, V.; Chandrasekaran, J.; Balasubramani, V.; Suresh, R.; Pradeesh, G.; Ramanathan, S.	Effect of surface modification of WO ₃ nanostructures on the performance for p-Si/n-WO ₃ structure diodes	INORGANIC CHEMISTRY COMMUNICATIONS	2021	130		10.1016/j.inoch.2021.108695	2
Mohan, K. S.; Panneerselvam, A.; Marnadu, R.; Chandrasekaran, J.; Shkir, Mohd.; Tataroglu, A.	A systematic influence of Cu doping on structural and optoelectrical properties of fabricated Yb ₂ O ₃ thin films for Al/Cu-Yb ₂ O ₃ /p-Si Schottky diode applications	INORGANIC CHEMISTRY COMMUNICATIONS	2021	129		10.1016/j.inoch.2021.108646	2

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Mohan, K. S.; Panneerselvam, A.; Chandrasekaran, J.; Marnadu, R.; Shkir, Mohd.	An in-depth examination of optoelectrical properties of In-Yb ₂ O ₃ thin films and fabricated Al/In-Yb ₂ O ₃ /p-Si (MIS) hetero junction diodes	APPLIED NANOSCIENCE	2021	11	5	10.1007/s13204-021-01817-4	2
Thilagavathi, T.; Venugopal, D.; Marnadu, R.; Chandrasekaran, J.; Thangaraju, D.; Palanivel, Baskaran; Hamdy, Mohamed S.; Shkir, M.; Ali, H. Elhosiny	WO ₃ /CoWO ₄ nanocomposite synthesis using a facile coprecipitation method for enhanced photocatalytic applications	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2021	154		10.1016/j.jpccs.2021.110066	2
Ramya, L.; Narayanamoorthy, Samayan; Kalaiselvan, Samayan; Kureethara, Joseph Varghese; Annapoorani, Veerappan; Kang, Daekook	A Congruent Approach to Normal Wiggly Interval-Valued Hesitant Pythagorean Fuzzy Set for Thermal Energy Storage Technique Selection Applications	INTERNATIONAL JOURNAL OF FUZZY SYSTEMS	2021	23	6	10.1007/s40815-021-01057-2	2
Prakash, R. Siva; Mahendran, C.; Chandrasekaran, J.; Marnadu, R.; Maruthamuthu, S.; Yahia, I. S.; Shkir, Mohd	A facile fabrication of Sn-doped CeO ₂ nanocrystalline thin films with enhanced photodiode properties for optoelectronic applications	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2021	127	3	10.1007/s00339-021-04311-4	2
Ruba, N.; Prakash, Pooja; Sowmya, S.; Janarthana, B.; Prabu, A. Nagamani; Chandrasekaran, J.; Alshahrani, T.; Zahran, H. Y.; Yahia, I. S.	Recent Advancement in Photo-Anode, Dye and Counter Cathode in Dye-Sensitized Solar Cell: A Review	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2021	31	5	10.1007/s10904-020-01854-6	2

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Sabarinathan, A.; Jayaprakash, R.; Gopi, S.; Robert, R.	The Augmentation of Photocatalytic Efficiency Due to the Transition Effect Between Spherical Shape and Rod-Like Structure of Sn Levels in ZnO Nanoparticles	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2021	31	4	10.1007/s10904-020-01769-2	2
Ragupathi, P.; Saranya, S.; Mittal, H. V. R.; Al-Mdallal, Qasem M.	Computational Study on Three-Dimensional Convective Casson Nanofluid Flow past a Stretching Sheet with Arrhenius Activation Energy and Exponential Heat Source Effects	COMPLEXITY	2021	2021		10.1155/2021/5058751	1
Narayanamoorthy, Samayan; Brainy, J., V; Manirathinam, Thangaraj; Kalaiselvan, Samayan; Kureethara, Joseph Varghese; Kang, Daekook	An Adoptable Multi-Criteria Decision-Making Analysis to Select a Best Hair Mask Product-Extended Weighted Aggregated Sum Product Assessment Method	INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS	2021	14	1	10.1007/s44196-021-00007-y	1
Nithya, N.; Gopi, S.; Bhoopathi, G.	An Amalgam of Mg-Doped TiO ₂ Nanoparticles Prepared by Sol-Gel Method for Effective Antimicrobial and Photocatalytic Activity	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2021	31	12	10.1007/s10904-021-02076-0	1

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Sasikumar, K.; Bharathikannan, R.; Sujithkumar, G.; Raja, S.; Arputhavalli, G. Johnsy; Vidhya, M.; Marnadu, R.; Suresh, R.	Structural, Optical, and Magnetic Properties of Mn-Doped Nickel Ferrite (Ni _{1-x} MnxFe ₂ O ₄) Thin Films Deposited by Jet Nebulizer Spray Pyrolysis Technique	JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM	2021	34	8	10.1007/s10948-021-05948-1	1
Narayanamoorthy, Samayan; Pragathi, Subramaniam; Parthasarathy, Thirumalai Nallasivan; Kalaiselvan, Samayan; Kureethara, Joseph Varghese; Saraswathy, Ranganathan; Nithya, Poosamani; Kang, Daekook	The COVID-19 Vaccine Preference for Youngsters Using PROMETHEE-II in the IFSS Environment	SYMMETRY-BASEL	2021	13	6	10.3390/sym13061030	1
Kannapiran, Nagarajan; Muthusamy, Athianna; Meena, Sher Singh	Study of Magnetic and Electrical Properties of Poly(o-phenylenediamine)/Manganese Substituted ZnFe ₂ O ₄ Nanocomposites	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2021	31	8	10.1007/s10904-021-02020-2	1
Karuppasamy, Periyakaruppan; Thiruppathi, Dharmaraj; Ganesan, Muniyandi; Rajendran, Thangamuthu; Rajagopal, Seenivasan; Sivasubramanian, Veluchamy Kamaraj; Rajapandian, Varatharaj	Electrocatalytic Oxidation of L-Cysteine, L-Methionine, and Methionine-Glycine Using [Oxoiron(IV)-Salen] Ion Immobilized Glassy Carbon Electrode	ELECTROCATALYSIS	2021	12	5	10.1007/s12678-021-00652-z	1

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Thiyagarajan, Thilagavathi; Deivasigamani, Venugopal; Raj, Marnadu; Joseph, Chandrasekaran; Dheivasigamani, Thangaraju; Palanivel, Baskaran; Hamdy, Mohamed S.; Shkir, Mohd	Facile synthesis and characterization of WO ₃ /CuWO ₄ nanocomposites for the removal of toxic methylene blue dye	KOREAN JOURNAL OF CHEMICAL ENGINEERING	2021	38	5	10.1007/s11814-021-0756-x	1
Suganya, B.; Maruthamuthu, S.; Chandrasekaran, J.; Saravanakumar, B.; Vijayakumar, E.; Marnadu, R.; Ali, H. Elhosiny; Nguyen, Tien Dai	Nitrogen doped 2D graphene/Zn ₃ V ₂ O ₈ nanocomposite with enhanced supercapacitive features	SURFACES AND INTERFACES	2021	24		10.1016/j.surfin.2021.101129	1
Karthik Kannan, S.; Thirunavukkarasu, P.; Marnadu, R.; Chandrasekaran, J.; Maruthamuthu, S.; Ali, Atif Mossad; Shkir, Mohd.	Facile Synthesis of Indium Doped Tin Oxide (ITO) Nanoparticles and Development of a p-Si/n-ITO Photodiode for Optoelectronic Applications	JOURNAL OF ELECTRONIC MATERIALS	2021	50	7	10.1007/s11664-021-08905-9	1
Pradeesh, G.; Nguyen, Tien Dai; Ponnuswamy, V.; Marnadu, R.; Chandrasekaran, J.; Shkir, Mohd.	Synthesis of Single-Phase MoO ₃ -Nanoparticles Using Various Acids for the Fabrication of n-MoO ₃ /p-Si Junction Diode	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2021	31	6	10.1007/s10904-021-01985-4	1
Dilip, R.; Jayaprakash, R.	Supremacy of Magnetic Behaviour in n-Heptane Based M Doped Barium Ferrite (BaFe ₂ O ₄) Nanoparticles (M: Co, Ni and Mn)	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2021	31	7	10.1007/s10904-021-01963-w	1

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Suresh, R.; Paul, M. Justin; Valavan, K. Thiruma; Kannan, S. Karthik; Marnadu, R.; Chandrasekaran, J.; Hegazy, H. H.; Manthrammel, M. Aslam	Development of YDC thin films by spray pyrolysis for the fabrication of p-Si/n-YDC photodiode	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2021	32	7	10.1007/s10854-021-05560-y	1
Raja, M.; Chandrasekaran, J.; Nguyen, Tien Dai; Marnadu, R.; Shkir, Mohd.; Kannan, S. Karthik; Balaji, M.; Ganesh, R.	A facile sol-gel spin-coating fabrication of Ni@WO ₃ thin films and highly rectifying p-Si/n-Ni@WO ₃ heterojunction for optoelectronic applications	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2021	32	2	10.1007/s10854-020-04927-x	1
Manigandan, M.; Muthaiah, Subramanian; Nandhagopal, T.; Vadivel, R.; Unyong, B.; Gunasekaran, N.	Existence results for coupled system of nonlinear differential equations and inclusions involving sequential derivatives of fractional order	AIMS MATHEMATICS	2021	7	1	10.3934/math.2022045	1
Manigandan, S.; Muthusamy, A.; Nandhakumar, R.; David, C. Immanuel	Recognition of Mn ²⁺ Ion by Azine Based Fluorescent Chemo Sensor and Its Theoretical Investigation	POLYMER SCIENCE SERIES A	2021	63	6	10.1134/S0965545X21350121	0
Kathiravan, S.; Jyothi, S.; Ayyannan, G.; Ravichandran, J.; Raja, G.	Inhibitory action of aqueous Ruellia Tuberosa L leaves extract on the corrosion of copper in HCl solution	JOURNAL OF THE INDIAN CHEMICAL SOCIETY	2021	98	11	10.1016/j.jics.2021.100207	0
Arunprasad, Veeranan; Siva Karthik, P.; Thulasi, Selvam; Arul, G. P.; Shkir, Mohd.; Rajamanickam, A. T.; Sumathi, T.; Fredrick, Sonia R.	Hydrothermal Preparation of Ni ₃ S ₄ /CoS ₂ Composite Electrocatalytic Materials for High Performance Counter Electrodes of Dye-Sensitized Solar Cells	JOURNAL OF CLUSTER SCIENCE	2021			10.1007/s10876-021-02183-5	0
Harishsenthil, P.; Chandrasekaran, J.; Thangaraju, D.; Balasubramani, V	Fabrication of strontium included hafnium oxide thin film based Al/Sr:HfO ₂ /n-Si MIS-Schottky barrier diodes for tuned electrical behavior	NEW JOURNAL OF CHEMISTRY	2021	45	41	10.1039/d1nj03563k	0

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Priya, R.; Mariappan, R.; Jayamurugan, P.; Bakkiyaraj, R.; Shkir, Mohd.	An influence of temperature on structural, morphological, thermal, optical and photoluminescence properties of LaPO ₄ nanoparticles	OPTIK	2021	247		10.1016/j.ijleo.2021.167860	0
Gunasekaran, S.; Marnadu, R.; Thangaraju, D.; Chandrasekaran, J.; Hegazy, H. H.; Somaily, H. H.; Durairajan, A.; Valente, M. A.; Elango, M.; Reddy, Vasudeva Reddy Minnam	Development of n-MoO ₃ @MoS ₂ /p-Si heterostructure diode using pre-synthesized core@shell nanocomposite for efficient light harvesting detector application	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	2021	135		10.1016/j.mssp.2021.106097	0
Abhiram, N.; Thangaraju, D.; Marnadu, R.; Gunasekaran, S.; Santhana, V.; Chandrasekaran, J.; Devi, N. S. M. P. Latha; Shkir, Mohd.; AlFaify, S.	Development of morphology tuned SnS hierarchical structures for enhanced photosensitive photodiode fabrication	INORGANIC CHEMISTRY COMMUNICATIONS	2021	129		10.1016/j.inoch.2021.108623	0
Harishsenthil, P.; Chandrasekaran, J.; Marnadu, R.; Shkir, Mohd	Enhancing of Al/Sn-HfO ₂ /n-Si (MIS) Schottky barrier diode performance through the incorporation of Sn ions on high dielectric HfO ₂ thin films formed by spray pyrolysis	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2021	31	9	10.1007/s10904-021-01997-0	0
Karuppasamy, Periyakaruppan; Thirupathi, Dharmaraj; Sundar, Jeyaraj Vijaya; Ganesan, Muniyandi; Rajendran, Thangamuthu; Meena, Sher Singh; Rajagopal, Seenivasan; Sivasubramanian, Veluchamy Kamaraj; Rajapandian, Varatharaj	Insight into structural aspects and study of reaction kinetics of model [oxo(salen)iron(IV)] complexes with dipeptides	POLYHEDRON	2021	196		10.1016/j.poly.2020.114952	0

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Arputhavalli, G. Johnsy; Agilan, S.; Ray, Mahithosh; Thangaraju, D.; Marnadu, R.; Chandrasekaran, J.; Chandekar, Kamlesh V.; Shkir, Mohd; Jebasingh, S.; Dinesh, M.	Post-annealing effects on structural and magnetic properties of pulsed laser deposition grown Co-Ni-Al ferromagnetic shape memory alloys thin films	SOLID STATE SCIENCES	2021	111		10.1016/j.solidstatedsci.2020.106493	0
Dhandapani, Prasantha Bharathi; Baleanu, Dumitru; Thippan, Jayakumar; Sivakumar, Vinoth	New Fuzzy Fractional Epidemic Model Involving Death Population	COMPUTER SYSTEMS SCIENCE AND ENGINEERING	2021	37	3	10.32604/csse.2021.015619	0
Chandar, N. Rajiv; Agilan, S.; Thangarasu, R.; Muthukumarasamy, N.; Chandrasekaran, J.; Arunachalam, S.; Akshaya, S. R.	Elucidation of efficient dual performance in photodegradation and antibacterial activity by a promising candidate Ni-doped MoO ₃ nanostructure	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	2021	100	3	10.1007/s10971-020-05382-0	0
2020							
Nayak, M. K.; Hakeem, A. K. Abdul; Ganga, B.; Khan, M. Ijaz; Waqas, M.; Makinde, O. D.	Entropy optimized MHD 3D nanomaterial of non-Newtonian fluid: A combined approach to good absorber of solar energy and intensification of heat transport	COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE	2020	186		10.1016/j.cmpb.2019.105131	116
Al-Mdallal, Qasem M.; Indumathi, N.; Ganga, B.; Hakeem, A. K. Abdul	Marangoni radiative effects of hybrid-nanofluids flow past a permeable surface with inclined magnetic field	CASE STUDIES IN THERMAL ENGINEERING	2020	17		10.1016/j.csite.2019.100571	41
Raj, Marnadu; Joseph, Chandrasekaran; Subramanian, Maruthamuthu; Perumalsamy, Vivek; Elayappan, Vijayakumar	Superior photoresponse MIS Schottky barrier diodes with nanoporous:Sn-WO ₃ films for ultraviolet photodetector application	NEW JOURNAL OF CHEMISTRY	2020	44	19	10.1039/d0nj00101e	24

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Thangaraju, D.; Marnadu, R.; Santhana, V; Durairajan, A.; Kathirvel, P.; Chandrasekaran, J.; Jayakumar, S.; Valente, M. A.; Greenidge, Darius C.	Solvent influenced synthesis of single-phase SnS2 nanosheets for solution-processed photodiode fabrication	CRYSTENGCOM	2020	22	3	10.1039/c9ce01417a	22
Balasubramani, V; Chandrasekaran, J.; Tien Dai Nguyen; Maruthamuthu, S.; Marnadu, R.; Vivek, P.; Sugarthi, S.	Colossal photosensitive boost in Schottky diode behaviour with Ce-V2O5 interfaced layer of MIS structure	SENSORS AND ACTUATORS A-PHYSICAL	2020	315		10.1016/j.sna.2020.112333	19
Saravanakumar, M.; Chandrasekaran, J.; Krishnakumar, M.; Babu, B.; Vinitha, G.; Anis, Mohd	Experimental and quantum chemical studies on SHG, Z-scan and optical limiting investigation of 2-amino-5-bromopyridinium trifluoroacetate single crystal for optoelectronic applications	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2020	136		10.1016/j.jpccs.2019.109133	18
Marnadu, R.; Chandrasekaran, J.; Vivek, R.; Balasubramani, V; Maruthamuthu, S.	Impact of Phase Transformation in WO3 Thin Films at Higher Temperature and its Compelling Interfacial Role in Cu/WO3/p-Si Structured Schottky Barrier Diodes	ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS	2020	234	2	10.1515/zpch-2018-1289	16
Li, Fanghua; Muhammad, Noor; Abohamzeh, Elham; Hakeem, A. K. Abdul; Hajizadeh, Mohammed Reza; Li, Z.; Quang-Vu Bach	Finned unit solidification with use of nanoparticles improved PCM	JOURNAL OF MOLECULAR LIQUIDS	2020	314		10.1016/j.molliq.2020.113659	15
Gunasekaran, S.; Thangaraju, D.; Marnadu, R.; Chandrasekaran, J.; Alshahrani, T.; Shkir, Mohd; Durairajan, A.; Graca, M. P. F.; Elango, M.	Fabrication of high-performance SiO2@p-CuO/n-Si core-shell structure based photosensitive diode for photodetection application	SURFACES AND INTERFACES	2020	20		10.1016/j.surfin.2020.100622	15

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Jarad, Fahd; Harikrishnan, Sugumaran; Shah, Kamal; Kanagarajan, Kuppusamy	EXISTENCE AND STABILITY RESULTS TO A CLASS OF FRACTIONAL RANDOM IMPLICIT DIFFERENTIAL EQUATIONS INVOLVING A GENERALIZED HILFER FRACTIONAL DERIVATIVE	DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES S	2020	13	3	10.3934/dcdss.2020040	15
Marnadu, R.; Chandrasekaran, J.; Maruthamuthu, S.; Vivek, P.; Balasubramani, V.; Balraju, P.	Jet Nebulizer Sprayed WO ₃ -Nanoplate Arrays for High-Photoresponsivity Based Metal-Insulator-Semiconductor Structured Schottky Barrier Diodes	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2020	30	3	10.1007/s10904-019-01285-y	15
Elanchezhian, E.; Nirmalkumar, R.; Balamurugan, M.; Mohana, K.; Prabu, K. M.; Viloría, Amelec	Heat and mass transmission of an Oldroyd-B nanofluid flow through a stratified medium with swimming of motile gyrotactic microorganisms and nanoparticles	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY	2020	141	6	10.1007/s10973-020-09847-w	13
Narmada, A.; Kathirvel, P.; Mohan, Lakshmi; Saravanakumar, S.; Marnadu, R.; Chandrasekaran, J.	Jet nebuliser spray pyrolysed indium oxide and nickel doped indium oxide thin films for photodiode application	OPTIK	2020	202		10.1016/j.ijleo.2019.163701	13
Balasubramani, V; Chandrasekaran, J.; Manikandan, V; Marnadu, R.; Vivek, P.; Balraju, P.	Influence of rare earth doping concentrations on the properties of spin coated V ₂ O ₅ thin films and Cu/Nd-V ₂ O ₅ /n-Si Schottky barrier diodes	INORGANIC CHEMISTRY COMMUNICATIONS	2020	119		10.1016/j.inoch.2020.108072	12
Manigandan, Subramani; Muthusamy, Athianna; Nandhakumar, Raju; David, Charles Immanuel	Recognition of Fe ³⁺ by a new azine-based fluorescent turn-off' chemosensor and its binding mode analysis using DFT	JOURNAL OF MOLECULAR STRUCTURE	2020	1208		10.1016/j.molstruc.2020.127834	12

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Balaji, M.; Chandrasekaran, J.; Raja, M.; Marnadu, R.; Ramamurthy, M.; Shkir, Mohd.	Fabrication of ON/OFF switching response based on n-Ni-doped MoO ₃ /p-Si junction diodes using Ni-MoO ₃ thin films as n-type layer prepared by JNS pyrolysis technique	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2020	126	3	10.1007/s00339-020-3392-0	12
Madhankumar, S.; Muthuraja, P.; Dhandapani, M.	Structural characterization, quantum chemical calculations and Hirshfeld surface analysis of a new third order harmonic organic crystal: 2-Amino-4-methylpyridinium benzilate	JOURNAL OF MOLECULAR STRUCTURE	2020	1201		10.1016/j.molstruc.2019.127151	12
Harishsenthil, P.; Chandrasekaran, J.; Marnadu, R.; Balraju, P.; Mahendarn, C.	Influence of high dielectric HfO ₂ thin films on the electrical properties of Al/HfO ₂ /n-Si (MIS) structured Schottky barrier diodes	PHYSICA B-CONDENSED MATTER	2020	594		10.1016/j.physb.2020.412336	11
Suba, V; Saravanabhavan, M.; Krishna, Lakkaboyana Sivarama; Kaleemulla, Shaik; Kumar, E. Ranjith; Rathika, G.	Evaluation of curcumin assistance in the antimicrobial and photocatalytic activity of a carbon based TiO ₂ nanocomposite	NEW JOURNAL OF CHEMISTRY	2020	44	37	10.1039/d0nj02346a	10
Vivek, P.; Chandrasekaran, J.; Marnadu, R.; Maruthamuthu, S.	Fabrication of Illumination-Dependent Cu/p-Si Schottky Barrier Diodes by Sandwiching MoO ₃ Nanoplates as an Interfacial Layer via JNSP Technique	JOURNAL OF ELECTRONIC MATERIALS	2020	49	7	10.1007/s11664-020-08137-3	10
Manikandan, V; Petrila, Iulian; Vigneselman, S.; Mane, R. S.; Vasile, Bogdan; Dharmavarapu, Raghu; Lundgaard, Stefan; Juodkazis, Saulius; Chandrasekaran, J.	A reliable chemiresistive sensor of nickel-doped tin oxide (Ni-SnO ₂) for sensing carbon dioxide gas and humidity	RSC ADVANCES	2020	10	7	10.1039/c9ra09579a	10

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Manikandan, V.; Singh, Monika; Yadav, B. C.; Mane, R. S.; Vigneselman, S.; Mirzaei, Ali; Chandrasekaran, J.	Room temperature LPG sensing properties of tin substituted copper ferrite (Sn-CuFe ₂ O ₄) thin film	MATERIALS CHEMISTRY AND PHYSICS	2020	240		10.1016/j.matchemphys.2019.122265	10
Ayyannan, Ganesan; Mohanraj, Maruthachalam; Gopiraman, Mayakrishnan; Uthayamalar, Ramasamy; Raja, Gunasekaran; Bhuvanesh, Nanjan; Nandhakumar, Raju; Jayabalakrishnan, Chinnasamy	New Palladium(II) complexes with ONO chelated hydrazone ligand: Synthesis, characterization, DNA/BSA interaction, antioxidant and cytotoxicity	INORGANICA CHIMICA ACTA	2020	512		10.1016/j.ica.2020.119868	9
Anandhan, A.; Sivasankari, C.; Saravanabhavan, M.; Siva, V.; Senthil, K.	Synthesis, crystal structure, spectroscopic investigations, physicochemical properties of third-order NLO single crystal for optical applications	JOURNAL OF MOLECULAR STRUCTURE	2020	1203		10.1016/j.molstruc.2019.127400	9
Vigneselman, S.; Manikandan, V.; Petrila, Iulian; Vanitha, A.; Chandrasekaran, J.	Effect of copper substitution on structural, optical and humidity-sensing characteristics of cerium oxide nanoparticles	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2020	136		10.1016/j.jpcs.2019.109173	8
Ramachandran, Eswaran; Gandin, Valentina; Bertani, Roberta; Sgarbossa, Paolo; Natarajan, Karuppanan; Bhuvanesh, Nattamai S. P.; Venzo, Alfonso; Zoleo, Alfonso; Mozzon, Mirto; Dolmella, Alessandro; Albinati, Alberto; Castellano, Carlo; Conceicao, Nuno Reis; Guedes da Silva, M. Fatima C.; Marzano, Cristina	Synthesis, Characterization and Biological Activity of Novel Cu(II) Complexes of 6-Methyl-2-Oxo-1,2-Dihydroquinoline-3-Carbaldehyde-4n-Substituted	MOLECULES	2020	25	8	10.3390/molecules25081868	7

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Sasikumar, K.; Bharathikannan, R.; Raja, M.; Mohanbabu, B.	Fabrication and characterization of rare earth (Ce, Gd, and Y) doped ZrO ₂ based metal-insulator-semiconductor (MIS) type Schottky barrier diodes	SUPERLATTICE S AND MICROSTRUCTURES	2020	139		10.1016/j.spmi.2020.106424	7
Sasikumar, K.; Bharathikannan, R.; Chandrasekaran, J.; Raja, M.	Effect of Organic Additives on the Characteristics of Al/Organic Additive:ZrO ₂ /p-Si Metal-Insulator-Semiconductor (MIS) Type Schottky Barrier Diodes	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2020	30	2	10.1007/s10904-019-01216-x	7
Sundarabharathi, Lakshmanaperumal; Chinnaswamy, Mahendran; Ponnamma, Deepalekshmi; Parangusan, Hemalatha; Al-Maadeed, Mariam Al Ali	La ³⁺ /Sr ²⁺ Dual-Substituted Hydroxyapatite Nanoparticles as Bone Substitutes: Synthesis, Characterization, In Vitro Bioactivity and Cytocompatibility	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2020	20	10	10.1166/jnn.2020.18577	6
Sangaiya, P.; Jayaprakash, R.	Influence of annealing temperature and electrical conductivity of alpha-Fe ₂ O ₃ nanoparticles for Schottky barrier diode	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2020	31	18	10.1007/s10854-020-04080-5	6
Raja, M.; Chandrasekaran, J.; Balaji, M.; Kathirvel, P.; Marnadu, R.	Influence of metal (M = Cd, In, and Sn) dopants on the properties of spin-coated WO ₃ thin films and fabrication of temperature-dependent heterojunction diodes	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	2020	93	3	10.1007/s10971-019-05207-9	6

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Narayanamoorthy, Samayan; Annapoorani, Veerappan; Kalaiselvan, Samayan; Kang, Daekook	Hybrid Hesitant Fuzzy Multi-Criteria Decision Making Method: A Symmetric Analysis of the Selection of the Best Water Distribution System	SYMMETRY-BASEL	2020	12	12	10.3390/sym12122096	5
Duraisamy, Palanisamy; Gopal, Thangaraj Nandha; Subramanian, Muthaiah	ANALYSIS OF FRACTIONAL INTEGRO-DIFFERENTIAL EQUATIONS WITH NONLOCAL ERDELYI-KOBER TYPE INTEGRAL BOUNDARY CONDITIONS	FRACTIONAL CALCULUS AND APPLIED ANALYSIS	2020	23	5	10.1515/fca-2020-0069	5
Manikandan, V; Petrila, Iulian; Kavita, S.; Mane, R. S.; Denardin, Juliano C.; Lundgaard, Stefan; Juodkazis, Saulius; Vigneselvan, S.; Chandrasekaran, J.	Effect of Vd-doping on dielectric, magnetic and gas sensing properties of nickel ferrite nanoparticles	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2020	31	19	10.1007/s10854-020-04228-3	5
Rani, Chandrasekhar Vidya; Kesavan, Mookkandi Palsamy; Haseena, Sheik; Varatharaj, Rajapandian; Rajesh, Jegathalaprathaban; Rajagopal, Gurusamy	Bidentate Schiff Base Ligands Appended Metal(II) Complexes as Probes of DNA and Plasma Protein: In Silico Molecular Modelling Studies	APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY	2020	191	4	10.1007/s12010-020-03270-5	5
Sowmya, S.; Prakash, Pooja; Ruba, N.; Janarthanan, B.; Prabu, A. Nagamani; Chandrasekaran, J.	A study on the fabrication and characterization of dye-sensitized solar cells with Amaranthus red and Lawsonia inermis as sensitizers with maximum absorption of visible light	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2020	31	8	10.1007/s10854-020-03154-8	5

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Manikandan, V; Mirzaei, Ali; Petriila, Iulian; Kavita, S.; Mane, R. S.; Denardin, Juliano C.; Lundgaard, Stefan; Juodkazis, Saulius; Chandrasekaran, J.; Vigneselvan, S.	Effect of neodymium stimulation on the dielectric, magnetic and humidity sensing properties of iron oxide nanoparticles	MATERIALS CHEMISTRY AND PHYSICS	2020	254		10.1016/j.matchemphys.2020.123572	4
Bhuvaneswari, S.; Seetha, M.; Chandrasekaran, J.; Marnadu, R.	High Photoresponsive p-Si/n-In(2)O(3) Junction Diodes with Low Ideality Factor Prepared Using Closely Packed Octahedral Structured In(2)O(3) Thin Films	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2020	30	11	10.1007/s10904-020-01663-x	4
Madhankumar, S.; Muthuraja, P.; Dhandapani, M.	Physico-chemical characterization and computational studies of a new organic adduct 3-amino-2-chloropyridine: Benzilic acid, crystal for third order harmonic generation	JOURNAL OF MOLECULAR STRUCTURE	2020	1203		10.1016/j.molstruc.2019.127415	4
Kannapiran, Nagarajan; Muthusamy, Athianna; Renganathan, B.; Ganesan, A. R.; Meena, Sher Singh	Magnetic, electrical and gas sensing properties of poly(o-phenylenediamine)/MnCoFe ₂ O ₄ nanocomposites	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2020	126	12	10.1007/s00339-020-04138-5	3
Muthusamy, Athianna; Balaji, Krishnasamy; Murugavel, Salem Chandrasekaran; Yuan, Conghui; Dai, Lizong	Synthesis and Characterization of Liquid Crystalline Polyesters Containing alpha,beta-unsaturated Ketone Moiety in the Main Chain Derived from 2,6-bis(4-hydroxybenzylidene)cyclohexanone	POLYMER SCIENCE SERIES B	2020	62	3	10.1134/S1560090420030112	3

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Rajkumar, M.; Muthuraja, P.; Dhandapani, M.; Chandramohan, A.	Synthesis, crystal structure, optical, thermal, mechanical, dielectric and DFT studies of 3, 5-dimethylprazole:1,3,5-benzene tricarboxylic acid molecular adduct crystal	OPTICS AND LASER TECHNOLOGY	2020	124		10.1016/j.optlas tec.2019.105970	3
Rani, T. Daisy; Rajkumar, M.; Vinitha, G.; Mobika, J.; Chandramohan, A.	Synthesis, structural, thermal, mechanical, laser damage threshold and DFT investigations on bis (2-methylimidazolium-4-aminobenzoate) single crystal	JOURNAL OF MOLECULAR STRUCTURE	2020	1200		10.1016/j.molstruc.2019.127045	3
Gowtham, B.; Ponnuswamy, V.; Pradeesh, G.; Suresh, R.; Ramanathan, S.; Ashokan, S.	Physical Investigations on Various Weight Percentage of Acetic Acid Doped Polypyrrole by Chemical Oxidative Polymerization	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2020	30	6	10.1007/s10904-019-01408-5	3
Palanisamy, Kandhan; Prakash, Muthuramalingam; Rajapandian, Varatharaj	Combined DFT and MD simulation studies of protein stability on imidazolium-water (ImH(+))W(n)) clusters with aromatic amino acids	NEW JOURNAL OF CHEMISTRY	2020	44	41	10.1039/d0nj03085f	2
Hakeem, A. K. Abdul; Indumathi, N.; Ganga, B.; Nayak, M. K.	Comparison of disparate solid volume fraction ratios of hybrid nanofluids flow over a permeable flat surface with aligned magnetic field and Marangoni convection	SCIENTIA IRANICA	2020	27	6	10.24200/SCI.2020.51681.2312	2

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Narayanamoorthy, Samayan; Anuja, Arumugam; Kang, Daekook; Kureethara, Joseph Varghese; Kalaiselvan, Samayan; Manirathinam, Thangaraj	A Distinctive Symmetric Analyzation of Improving Air Quality Using Multi-Criteria Decision Making Method under Uncertainty Conditions	SYMMETRY-BASEL	2020	12	11	10.3390/sym12111858	2
Govindaraj, T.; Mahendran, C.; Manikandan, V. S.; Suresh, R.	One-pot synthesis of tungsten oxide nanostructured for enhanced photocatalytic organic dye degradation	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2020	31	20	10.1007/s10854020-04309-3	2
Dilip, R.; Jayaprakash, R.	Requisite of Surfactant (CTAB, n-Heptane, and Tri-sodium Citrate) Levels on Enhancement of Magnetic Property and Morphology Changes of Barium Ferrite (BaFe ₂ O ₄) Nanoparticles	JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM	2020	33	12	10.1007/s10948020-05645-5	2
Suganya, B.; Chandrasekaran, J.; Maruthamuthu, S.; Saravanakumar, B.; Vijayakumar, E.	Hydrothermally Synthesized Zinc Vanadate Rods for Electrochemical Supercapacitance Analysis in Various Aqueous Electrolytes	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2020	30	11	10.1007/s10904020-01581-y	2
Manikandan, V; Petrila, Iulian; Vigneselvan, S.; Mirzaei, Ali; Mane, R. S.; Kim, Sang Sub; Chandrasekaran, J.	Enhanced humidity sensing properties of Fe-doped CeO ₂ nanoparticles	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2020	31	11	10.1007/s10854020-03416-5	2

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Madhankumar, S.; Muthuraja, P.; Dhandapani, M.	Hydrogen bond analysis of a third order nonlinear optical crystal, 2-amino-5-bromopyridinium benzilate, using structural and computational characterizations	JOURNAL OF MOLECULAR STRUCTURE	2020	1203		10.1016/j.molstruc.2019.127419	2
Vedhanayagam, Sam Manova; Saminathan, Sharmila; Janarthanan, B.; Chandrasekaran, J.	Impedance analysis of zirconium-doped lithium manganese oxide	BULLETIN OF MATERIALS SCIENCE	2020	43	1	10.1007/s12034-020-02257-6	1
Jayamurugan, P.; Mariappan, R.; Deivanayaki, S.; Ponnuswamy, V; Maadeswaran, P.; Chavali, Murthy; Rao, Y. V. Subba	Effect of dopant concentration on polyaniline/poly(4-styrene sulfonic acid) composite for ammonia gas detection	POLYMERS & POLYMER COMPOSITES	2020	28	8-9	10.1177/0967391119895743	1
Manikandan, V.; Mirzaei, Ali; Sikarwar, S.; Yadav, B. C.; Vigneselvan, S.; Vanitha, A.; Chandrasekaran, J.	The rapid response and high sensitivity of a ruthenium-doped copper ferrite thin film (Ru-CuFe ₂ O ₄) sensor	RSC ADVANCES	2020	10	23	10.1039/d0ra00507j	1
Rani, T. Daisy; Rajkumar, M.; Chandramohan, A.	Synthesis, crystal structure, photoluminescence, thermal, laser damage threshold and DFT calculations of 1,10-phenanthroline-2-carboxy-6-nitrobenzoate	OPTICAL MATERIALS	2020	100		10.1016/j.optmat.2019.109614	1
Aparna, V. S.; Muthuraja, P.; Shanmugavadivu, T.; Sethuram, M.; Dhandapani, M.	Supramolecular assemblies through hydrogen bonding and Br center dot center dot center dot O-nitro interactions in 4-bromoanilinium 2,4-dinitrobenzoate crystals	JOURNAL OF MOLECULAR STRUCTURE	2020	1221		10.1016/j.molstruc.2020.128788	0

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Amsaraj, C.; Bharathikannan, R.; Muthuraja, P.; Rajkumar, M.	Chlorine directed C-Cl center dot center dot center dot pi and C-H center dot center dot center dot Cl interactions in acridinium 3,5-dichlorosalicylate: Synthesis, X-ray diffraction and theoretical analysis	JOURNAL OF MOLECULAR STRUCTURE	2020	1220		10.1016/j.molstruc.2020.128759	0
Murugan, Kaliyappan; Vijayapritha, Subbarayan; Nirmala, Muthukumaran; Viswanathamurthi, Periasamy; Natarajan, Karuppannan	Hydrazone complexes of ruthenium(II): Synthesis, crystal structures and catalytic applications in N-alkylation reactions	JOURNAL OF ORGANOMETALLIC CHEMISTRY	2020	923		10.1016/j.jorganchem.2020.121411	0
Vadivelan, Ganesan; Gohulavani, Grahandurai; Saravanabhavan, Munusamy; Murugesan, Venkatesan; Sekar, Marimuthu	Benzimidazolium picrate single crystal: Synthesis, growth, characterization and their biological activity	INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY	2020	59	9		0
2019							
Pradeep, C.; Cao, Yang; Murugesu, R.; Rakkiyappan, R.	An event-triggered synchronization of semi-Markov jump neural networks with time-varying delays based on generalized free-weighting-matrix approach	MATHEMATICS AND COMPUTERS IN SIMULATION	2019	155		10.1016/j.matcom.2017.11.001	55

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Marnadu, R.; Chandrasekaran, J.; Maruthamuthu, S.; Balasubramani, V.; Vivek, P.; Suresh, R.	Ultra-high photoresponse with superiorly sensitive metal-insulator-semiconductor (MIS) structured diodes for UV photodetector application	APPLIED SURFACE SCIENCE	2019	480		10.1016/j.apsusc.2019.02.214	53
Vivek, P.; Chandrasekaran, J.; Marnadu, R.; Maruthamuthu, S.; Balasubramani, V	Incorporation of Ba ²⁺ ions on the properties of MoO ₃ thin films and fabrication of positive photo-response Cu/Ba-MoO ₃ /p-Si structured diodes	SUPERLATTICES AND MICROSTRUCTURES	2019	133		10.1016/j.spmi.2019.106197	29
Balasubramani, V.; Chandrasekaran, J.; Marnadu, R.; Vivek, P.; Maruthamuthu, S.; Rajesh, S.	Impact of Annealing Temperature on Spin Coated V ₂ O ₅ Thin Films as Interfacial Layer in Cu/V ₂ O ₅ /n-Si Structured Schottky Barrier Diodes	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2019	29	5	10.1007/s10904-019-01117-z	28
Muhammd, Shabbir; Shehzad, Rao Aqil; Iqbal, Javed; Al-Sehemi, Abdullah G.; Saravanabhavan, M.; Khalid, Muhammad	Benchmark study of the linear and nonlinear optical polarizabilities in proto-type NLO molecule of para-nitroaniline	JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY	2019	18	6	10.1142/S0219633619500305	27
Madhankumar, S.; Muthuraja, P.; Dhandapani, M.	Molecular properties, crystal structure, Hirshfeld surface analysis and computational calculations of a new third order NLO organic crystal, 2-aminopyridinium benzilate	JOURNAL OF MOLECULAR STRUCTURE	2019	1181		10.1016/j.molstruc.2018.12.048	23
Vijayakumar, V.; Murugesu, R.	Controllability for a class of second-order evolution differential inclusions without compactness	APPLICABLE ANALYSIS	2019	98	7	10.1080/00036811.2017.1422727	19

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Mohanraj, K.; Balasubramanian, D.; Chandrasekaran, J.	Synthesis and characterization of ruthenium-doped CdO nanoparticle and its n-RuCdO/p-Si junction diode application	JOURNAL OF ALLOYS AND COMPOUNDS	2019	779		10.1016/j.jallcom.2018.11.264	19
Sundarabharathi, Lakshmanaperumal; Chinnaswamy, Mahendran; Ponnamma, Deepalekshmi; Parangusan, Hemalatha; Al-Maadeed, Mariam Al Ali	Investigation of antimicrobial properties and in-vitro bioactivity of Ce ³⁺ -Sr ²⁺ dual-substituted nano hydroxyapatites	JOURNAL OF THE AMERICAN CERAMIC SOCIETY	2019	102	1	10.1111/jace.15866	18
Vivek, P.; Chandrasekaran, J.; Marnadu, R.; Maruthamuthu, S.; Balasubramani, V; Balraju, P.	Zirconia modified nanostructured MoO ₃ thin films deposited by spray pyrolysis technique for Cu/MoO ₃ -ZrO ₂ /p-Si structured Schottky barrier diode application	OPTIK	2019	199		10.1016/j.ijleo.2019.163351	16
Ragupathi, P.; Hakeem, A. K. Abdul; Al-Mdallal, Qasem M.; Ganga, B.; Saranya, S.	Non-uniform heat source/sink effects on the three-dimensional flow of Fe ₃ O ₄ /Al ₂ O ₃ nanoparticles with different base fluids past a Riga plate	CASE STUDIES IN THERMAL ENGINEERING	2019	15		10.1016/j.csite.2019.100521	16
Manikandan, V; Kim, Jae-Hun; Mirzaei, Ali; Kim, Sang Sub; Vigneselvan, S.; Singh, Monika; Chandrasekaran, J.	Effect of temperature on gas sensing properties of lithium (Li) substituted (NiFe ₂ O ₄) nickel ferrite thin film	JOURNAL OF MOLECULAR STRUCTURE	2019	1177		10.1016/j.molstruc.2018.09.085	14
Gomathi, Asaithambi; Viswanathamurthi, Periasamy; Natarajan, Karuppanan	Fluorescence sensing response of zinc(II) and pyrophosphate ions by benzoxazole appended dipodal Schiff base	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY	2019	370		10.1016/j.jphotochem.2018.10.036	14

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Balachandar, S.; Dhandapani, M.	Biological action of molecular adduct pyrazole: trichloroacetic acid on Candida albicans and ctDNA - A combined experimental, Fukui functions calculation and molecular docking analysis	JOURNAL OF MOLECULAR STRUCTURE	2019	1184		10.1016/j.molstruc.2019.02.006	13
Manikandan, Venkatraman; Mirzaei, Ali; Vigneselvan, Sivasubramaniam; Kavita, Srikanti; Mane, Rajaram Sakharam; Kim, Sang Sub; Chandrasekaran, Joseph	Role of Ruthenium in the Dielectric, Magnetic Properties of Nickel Ferrite (Ru-NiFe ₂ O ₄) Nanoparticles and Their Application in Hydrogen Sensors	ACS OMEGA	2019	4	7	10.1021/acsomega.9b01562	12
Shanmugavadivu, T.; Dhandapani, M.; Vinitha, G.; Beaula, T. Joselin	Quantum chemical calculations, structural, spectral and nonlinear optical investigations of a novel crystal N,N'-diphenylguanidinium 3,5-dichlorobenzoate	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2019	130		10.1016/j.jpcs.2019.01.024	12
Sasikumar, K.; Bharathikannan, R.; Raja, M.	Effect of Annealing Temperature on Structural and Electrical Properties of Al/ZrO ₂ /p-Si MIS Schottky Diodes	SILICON	2019	11	1	10.1007/s12633-018-9938-5	12
Manikandan, V; Sikarwar, S.; Yadav, B. C.; Vigneselvan, S.; Mane, R. S.; Chandrasekaran, J.; Mirzaei, Ali	Rapid humidity sensing activities of lithium-substituted copper-ferrite (Li - CuFe ₂ O ₄) thin films	MATERIALS CHEMISTRY AND PHYSICS	2019	229		10.1016/j.matchemphys.2019.03.043	10

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Ganga, B.; Govindaraju, M.; Hakeem, A. K. Abdul	Effects of Inclined Magnetic Field on Entropy Generation in Nanofluid Over a Stretching Sheet with Partial Slip and Nonlinear Thermal Radiation	IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF MECHANICAL ENGINEERING	2019	43	4	10.1007/s40997-018-0227-0	9
Balaji, M.; Chandrasekaran, J.; Raja, M.; Marnadu, R.	Impact of Cu concentration on the properties of spray coated Cu-MoO ₃ thin films: evaluation of n-CuMoO ₃ /p-Si junction diodes by J-V, Norde and Cheung's methods	MATERIALS RESEARCH EXPRESS	2019	6	10	10.1088/2053-1591/ab361d	8
Thangarasu, R.; Thangavel, Elangovan; Chandrasekaran, J.; Balasundaram, O. N.	Synthesis, characterization and gas sensing performance of V ₂ O ₅ nano-structure on PET substrate	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2019	30	4	10.1007/s10854-019-00715-4	8
Saravanabhavan, Munusamy; Badavath, Vishnu Nayak; Maji, Siddhartha; Muhammad, Shabbir; Sekar, Marimuthu	Novel halogenated pyrido[2,3-a]carbazoles with enhanced aromaticity as potent anticancer and antioxidant agents: rational design and microwave assisted synthesis	NEW JOURNAL OF CHEMISTRY	2019	43	44	10.1039/c8nj06504g	7
Vigneselvan, S.; Manikandan, V.; Petrila, Iulian; Vanitha, A.; Chandrasekaran, J.	Effect of Tin Element on the Structural, Optical and Humidity Sensing Properties of Cerium Oxide Nanoparticles	JOURNAL OF ELECTRONIC MATERIALS	2019	48	11	10.1007/s11664-019-07563-2	7

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Vijayakumar, V.; Murugesu, R.; Selvan, M. Tamil	Controllability for a class of second order functional evolution differential equations without uniqueness	IMA JOURNAL OF MATHEMATICAL CONTROL AND INFORMATION	2019	36	1	10.1093/imamci/dnx048	7
Sana, Balakondareddy; Koyilapu, Rambabu; Dineshkumar, Sengottuvelu; Muthusamy, Athianna; Jana, Tushar	High temperature PEMs developed from the blends of Polybenzimidazole and poly(azomethine-ether)	JOURNAL OF POLYMER RESEARCH	2019	26	2	10.1007/s10965-019-1716-6	7
Vivek, D.; Elsayed, E. M.; Kanagarajan, K.	THEORY AND ANALYSIS OF PARTIAL DIFFERENTIAL EQUATIONS WITH A psi-CAPUTO FRACTIONAL DERIVATIVE	ROCKY MOUNTAIN JOURNAL OF MATHEMATICS	2019	49	4	10.1216/RMJ-2019-49-4-1355	7
Kumar, S. Madhan; Muthuraja, P.; Dhandapani, M.	Quantum chemical calculations, physico-chemical characterizations and crystal structural analysis of a new organic - hydrogen bond networked crystal, 2-aminothiazolium benzilate	JOURNAL OF MOLECULAR STRUCTURE	2019	1197		10.1016/j.molstruc.2019.07.025	6
Ashokan, S.; Jayamurugan, P.; Ponnuswamy, V	Effects of CuO and Oxidant on the Morphology and Conducting Properties of PANI:CuO Hybrid Nanocomposites for Humidity Sensor Application	POLYMER SCIENCE SERIES B	2019	61	1	10.1134/S1560090419010020	6
Elsayed, E. M.; Harikrishnan, S.; Kanagarajan, K.	On the Existence and Stability of Boundary Value Problem for Differential Equation with Hilfer-Katugampola Fractional Derivative	ACTA MATHEMATICA SCIENTIA	2019	39	6	10.1007/s10473-019-0608-5	5

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Somasundaram, Gopi; Rajan, Jayaprakash	Ascendancy of Polianthes tuberosa, Nerium oleander, Hibiscus rosa sinensis and Dalia flower Extracts on CdO Nanoparticle Morphologies and Their Effectiveness in Photocatalytic and Antimicrobial Activities	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2019	29	6	10.1007/s10904-019-01174-4	5
Shanmugavadivu, T.; Dhandapani, M.	Crystal structure, spectral, thermal, optical, laser damage, NLO study and quantum chemical calculations of a noncentrosymmetric crystal N, N'-diphenylguanidinium p-toluenesulphonate	JOURNAL OF MOLECULAR STRUCTURE	2019	1179		10.1016/j.molstruc.2018.10.092	5
Vivek, D.; Shah, Kamal; Kanagarajan, K.	Dynamical analysis of Hilfer-Hadamard type fractional pantograph equations via successive approximation	JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE	2019	13	1	10.1080/16583655.2018.1558613	5
Paul, C. Arun; Shree, B. Sharanya; Preethi, T.; Chandrasekaran, J.; Mohanraj, K.; Senthil, K.	Exploration of organic additives-assisted vanadium pentoxide (V ₂ O ₅) nanoparticles for Cu/n-V ₂ O ₅ /p-Si Schottky diode applications	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2019	30	24	10.1007/s10854-019-02467-7	4
Somasundaram, Gopi; Rajan, Jayaprakash; Sangaiya, P.; Dilip, R.	Phytochemicals and Morphological Influence of Aloe Barbadensis Miller Extract Capped Biosynthesis of CdO Nanosticks	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2019	29	6	10.1007/s10904-019-01147-7	4

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Dhandapani, Prasantha Bharathi; Baleanu, Dumitru; Thippan, Jayakumar; Sivakumar, Vinoth	Fuzzy Type RK4 Solutions to Fuzzy Hybrid Retarded Delay Differential Equations	FRONTIERS IN PHYSICS	2019	7		10.3389/fphy.2019.00168	4
Ramesh, K. S.; Saravanabhavan, M.; Rajkumar, M.; Edison, D.; Sekar, M.; Muhammad, Shabbir; Al-Sehemi, Abdullah G.	Synthesis, growth, structural, thermal, third order nonlinear and computational studies of organic single crystal: 2-Amino-4-picolinium 2-chloro-4-nitrobenzoate	OPTICAL MATERIALS	2019	96		10.1016/j.optmat.2019.109341	4
Sathiyapriya, T.; Rathika, G.; Dhandapani, M.	In depth analysis of anti corrosion behaviour of eco friendly gum exudate for mild steel in sulphuric acid medium	JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY	2019	33	22	10.1080/01694243.2019.1645261	4
Anbazhakan, K.; Sadasivam, K.; Praveena, R.; Dhandapani, M.	Target prediction and antioxidant analysis on isoflavones of demethyltaxasin: a DFT study	JOURNAL OF MOLECULAR MODELING	2019	25	6	10.1007/s00894-019-4045-0	4
Sivasamy, R.; Sivakumar, M.; Balachandran, K.; Sathiyathan, K.	Spatial Pattern of Ratio-Dependent Predator-Prey Model with Prey Harvesting and Cross-Diffusion	INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS	2019	29	3	10.1142/S0218127419500366	4
Rajkumar, M.; Dhanalakshmi, M.; Sekar, M.; Chandramohan, A.; Murugesan, V	Synthesis, structural, photoluminescence, thermal, mechanical, dielectric, nonlinear optical and laser damage threshold studies of 2,3-dimethylquinoxalinium-4-chlorobenzenesulphonate	MATERIALS LETTERS	2019	243		10.1016/j.matlet.2019.02.057	3

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Anand, Siddeswaran; Muthusamy, Athianna	Synthesis, characterization, electrochemical, electrical, thermal and ESIPT behaviour of oligobenzimidazoles of certain substituted benzimidazole carboxylic acids and their diode applications	JOURNAL OF MOLECULAR STRUCTURE	2019	1177		10.1016/j.molstruc.2018.09.045	3
Ragupathi, P.; Hakeem, A. K. Abdul; Saranya, S.; Ganga, B.	Non-Darcian three-dimensional flow of Fe ₃ O ₄ /Al ₂ O ₃ nanoparticles with H ₂ O/NaC ₆ H ₉ O ₇ base fluids past a Riga plate embedded in a porous medium	EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS	2019	228	12	10.1140/epjst/e2019-900072-1	2
Singaravelan, K.; Chandramohan, A.; Madhankumar, S.; Enoch, M., V; Vinitha, G.	Structural characterization, computational and biological studies of a new third order NLO (1:1) organic adduct: 2-Aminopyrimidine: 3-nitrophthalic acid	JOURNAL OF MOLECULAR STRUCTURE	2019	1194		10.1016/j.molstruc.2019.05.028	2
Harikrishnan, S.; Kanagarajan, K.; Elsayed, E. M.	RETRACTION: Existence of solutions of nonlocal initial value problems for differential equations with Hilfer-Katugampola fractional derivative (Retraction of Vol 144, Pg 203, 2018)	REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS	2019	113	4	10.1007/s13398-019-00645-0	2
Rajkumar, M.; Chandramohan, A.	Synthesis, growth, structural characterization and biological investigation of hydrogen bonded organic molecular salt: N, N-diethylanilinium-5-sulphosalicylate	JOURNAL OF MOLECULAR STRUCTURE	2019	1192		10.1016/j.molstruc.2019.04.120	2

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Muthuraja, P.; Aparna, V. S.; Beaula, T. Joselin; Jothy, V. Bena; Dhandapani, M.	Supramolecular interactions in itaconic acid-2-amino-4,6-dimethylpyrimidine molecular adduct: Physicochemical characterisation and quantum chemical calculations for the molecular adduct	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2019	129		10.1016/j.jpccs.2019.01.013	2
Sivasamy, R.; Sathiyathan, K.; Balachandran, K.	DYNAMICS OF A MODIFIED LESLIE-GOWER MODEL WITH GESTATION EFFECT AND NONLINEAR HARVESTING	JOURNAL OF APPLIED ANALYSIS AND COMPUTATION	2019	9	2	10.11948/2156-907X.20180165	2
Mahudeswaran, A.; Jeeva, A.; Chandrasekaran, J.; Vijayanand, P. S.	Structural and electrical properties of new core-shell silver poly(m-toluidine-co-2-bromoaniline) nanocomposites	MATERIALS SCIENCE-POLAND	2019	37	4	10.2478/msp-2019-0064	1
Haseena, Sheik; Kumar, Ravva Mahesh; Rajapandian, Varatharaj; Subramanian, Venkatesan	Interactions of thiol and alkoxy radical with coinage metal nanoclusters	APPLIED SURFACE SCIENCE	2019	487		10.1016/j.apsusc.2019.04.151	1
Kanagarajan, K.; Elsayed, E. M.; Harikrishnan, S.	A GENERAL STUDY ON RANDOM INTEGRO-DIFFERENTIAL EQUATIONS OF ARBITRARY ORDER	JOURNAL OF APPLIED ANALYSIS AND COMPUTATION	2019	9	4	10.11948/2156-907X.20180260	0
Balachandar, S.; Sethuram, M.; Dhandapani, M.	Functional insights of a molecular complex pyrazolium 3,5-dinitrobenzoate:3,5-dinitrobenzoic acid on infectious agents and ctDNA - A comparative biological screening and complementary theoretical calculations	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY	2019	196		10.1016/j.jphotobiol.2019.04.006	0

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Balachandar, S.; Sethuram, M.; Muthuraja, P.; Dhandapani, M.	Bioactivity of a radical scavenger bis(pyrazolium p-toluenesulphonate) on ctDNA and certain microbes: a combined experimental and theoretical analysis	TOXICOLOGY RESEARCH	2019	8	3	10.1039/c8tx00258d	0
Shanmugavadivu, T.; Dhandapani, M.; Beaula, T. Joselin	Experimental and theoretical investigations of a proton transfer supramolecular adduct, aminoguanidinium p-nitrophenolate: p-nitrophenol	JOURNAL OF MOLECULAR STRUCTURE	2019	1178		10.1016/j.molstruc.2018.10.003	0
Singaravelan, K.; Chandramohan, A.; Raja, G.; Dhandapani, M.; Muthuraja, P.; Enoch, Muthu Vijayan	Structural, spectral, physiochemical, computational studies and pharmacological screening of a new organic salt: 2, 6-diaminopyridinium-2-nitrobenzoate	JOURNAL OF MOLECULAR STRUCTURE	2019	1178		10.1016/j.molstruc.2018.10.067	0
2018							
Sangaiya, P.; Jayaprakash, R.	A Review on Iron Oxide Nanoparticles and Their Biomedical Applications	JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM	2018	31	11	10.1007/s10948-018-4841-2	60
Vivek, D.; Kanagarajan, K.; Elsayed, E. M.	Some Existence and Stability Results for Hilfer-fractional Implicit Differential Equations with Nonlocal Conditions	MEDITERRANEAN JOURNAL OF MATHEMATICS	2018	15	1	10.1007/s00009-017-1061-0	55
Ganesh, N. Vishnu; Hakeem, A. K. Abdul; Ganga, B.	Darcy-Forchheimer flow of hydromagnetic nanofluid over a stretching/shrinking sheet in a thermally stratified porous medium with second order slip, viscous and Ohmic dissipations effects	AIN SHAMS ENGINEERING JOURNAL	2018	9	4	10.1016/j.asej.2016.04.019	52

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Marnadu, R.; Chandrasekaran, J.; Raja, M.; Balaji, M.; Maruthamuthu, S.; Balraju, P.	Influence of metal work function and incorporation of Sr atom on WO ₃ thin films for MIS and MIM structured SBDs	SUPERLATTICE S AND MICROSTRUCTURES	2018	119		10.1016/j.spmi.2018.04.049	36
Marnadu, R.; Chandrasekaran, J.; Raja, M.; Balaji, M.; Balasubramani, V.	Impact of Zr content on multiphase zirconium-tungsten oxide (Zr-WO _x) films and its MIS structure of Cu/Zr-WO _x /p-Si Schottky barrier diodes	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2018	29	4	10.1007/s10854-017-8187-5	34
Mohanraj, K.; Balasubramanian, D.; Chandrasekaran, J.; Bose, A. Chandra	Synthesis and characterizations of Ag-doped CdO nanoparticles for P-N junction diode application	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	2018	79		10.1016/j.mssp.2018.02.006	30
Saranya, S.; Ragupathi, P.; Ganga, B.; Sharma, R. P.; Hakeem, A. K. Abdul	Non-linear radiation effects on magnetic/non-magnetic nanoparticles with different base fluids over a flat plate	ADVANCED POWDER TECHNOLOGY	2018	29	9	10.1016/j.appt.2018.05.002	27
Indhumathi, Ponnuswamy; Sathiyaraj, Subbaiyan; Koelmel, Jeremy P.; Shoba, Srinivasan U.; Jayabalakrishnan, Chinnasamy; Saravanabhavan, Munusamy	The Efficient Removal of Heavy Metal Ions from Industry Effluents Using Waste Biomass as Low-Cost Adsorbent: Thermodynamic and Kinetic Models	ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS	2018	232	4	10.1515/zpch-2016-0900	25
Sathya, K.; Dhamodharan, P.; Dhandapani, M.	Structural characterization and DFT study of a new optical crystal: 2-amino-3-methylpyridinium-3,5-dinitrobenzoate	OPTICS AND LASER TECHNOLOGY	2018	101		10.1016/j.optlas tec.2017.11.027	20

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Sangaiya, P.; Jayaprakash, R.	Tuning effect of Sn doping on structural, morphological, optical, electrical and photocatalytic properties of iron oxide nanoparticles	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	2018	85		10.1016/j.mssp.2018.05.033	18
Harikrishnan, S.; Shah, Kamal; Baleanu, Dumitru; Kanagarajan, K.	Note on the solution of random differential equations via psi-Hilfer fractional derivative	ADVANCES IN DIFFERENCE EQUATIONS	2018			10.1186/s13662-018-1678-8	16
Muthuraja, P.; Shanmugavadivu, T.; Beaula, T. Joselin; Jothy, V. Bena; Dhandapani, M.	Influence of intramolecular hydrogen bonding interaction on the molecular properties of N-p-tolyl-5-oxo pyrrolidine-3-carboxylic acid: A theoretical and experimental study	CHEMICAL PHYSICS LETTERS	2018	691		10.1016/j.cplett.2017.11.003	16
Raman, M. Sethu; Kumar, N. Senthil; Chandrasekaran, J.; Priya, R.; Baraneedharan, P.; Chavali, Murthy	Thermal annealing effects on structural, optical and electrical properties of V2O5 nanorods for photodiode application	OPTIK	2018	157		10.1016/j.ijleo.2017.11.030	16
Muthuraja, P.; Beaula, T. Joselin; Sethuram, M.; Jothy, V. Bena; Dhandapani, M.	Hydrogen bonding interactions on 1H-1,2,3-triazole based crystals: Featuring experimental and theoretical analysis	CURRENT APPLIED PHYSICS	2018	18	6	10.1016/j.cap.2018.03.005	13
Rajkumar, M.; Muthuraja, P.; Dhandapani, M.; Chandramohan, A.	Supramolecular network through N-H center dot center dot center dot O, O-H center dot center dot center dot O and C-H center dot center dot center dot O hydrogen bonding interaction and density functional theory studies of 4-methylanilinium-3-carboxy-4-hydroxybenzenesulphonate crystal	JOURNAL OF MOLECULAR STRUCTURE	2018	1153		10.1016/j.molstruc.2017.10.013	13

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Sundarabharathi, Lakshmanaperumal; Parangusan, Hemalatha; Ponnamma, Deepalekshmi; Al-Maadeed, Mariam Al Ali; Chinnaswamy, Mahendran	In-vitro biocompatibility, bioactivity and photoluminescence properties of Eu ³⁺ /Sr ²⁺ dual-doped nano-hydroxyapatite for biomedical applications	JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS	2018	106	6	10.1002/jbm.b.34023	12
Gowtham, B.; Ponnuswamy, V.; Pradeesh, G.; Chandrasekaran, J.; Aradhana, D.	MoO ₃ overview: hexagonal plate-like MoO ₃ nanoparticles prepared by precipitation method	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2018	29	8	10.1007/s10854-018-8670-7	12
Somasundaram, Gopi; Rajan, Jayaprakash	Effectual Role of Abelmoschus esculentus (Okra) Extract on Morphology, Microbial and Photocatalytic Activities of CdO Tetrahedral Clogs	JOURNAL OF INORGANIC AND ORGANOMETALIC POLYMERS AND MATERIALS	2018	28	1	10.1007/s10904-017-0695-5	12
Thirumurugan, R.; Babu, B.; Anitha, K.; Chandrasekaran, J.	Synthesis, growth, characterization and quantum chemical investigations of a promising organic nonlinear optical material: Thiourea-glutaric acid	JOURNAL OF MOLECULAR STRUCTURE	2018	1171		10.1016/j.molstruc.2017.07.027	11
Manikandan, V.; Petrila, Iulian; Vigneselvan, S.; Dharmavarapu, Raghu; Juodkazis, Saulius; Kavita, S.; Chandrasekaran, J.	Efficient humidity-sensitive electrical response of annealed lithium substituted nickel ferrite (Li-NiFe ₂ O ₄) nanoparticles under ideal, real and corrosive environments	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2018	29	21	10.1007/s10854-018-9987-y	11

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Somasundaram, Gopi; Rajan, Jayaprakash; Paul, Justin	Effect of the calcination process on CdO-ZnO nanocomposites by a honey-assisted combustion method for antimicrobial performance	TOXICOLOGY RESEARCH	2018	7	5	10.1039/c8tx00059j	11
Manikandan, V.; Li, Xiaogan; Mane, R. S.; Chandrasekaran, J.	Room Temperature Gas Sensing Properties of Sn-Substituted Nickel Ferrite (NiFe ₂ O ₄) Thin Film Sensors Prepared by Chemical Co-Precipitation Method	JOURNAL OF ELECTRONIC MATERIALS	2018	47	7	10.1007/s11664-018-6295-5	11
Anand, Siddeswaran; Muthusamy, Athianna; Dineshkumar, Sengottuvelu; Kannapiran, Nagarajan	Synthesis, characterization, optical, thermal and electrical properties of polybenzimidazoles	JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY	2018	55	3	10.1080/10601325.2018.1424550	10
Rani, T. Daisy; Rajkumar, M.; Chandramohan, A.	Synthesis, crystal structure, thermal, mechanical and laser damage threshold studies of an NLO active organic molecular adduct: 4-Acetylpyridine:4-aminobenzoic acid	MATERIALS LETTERS	2018	222		10.1016/j.matlet.2018.03.195	8
Beaula, T. Joselin; Muthuraja, P.; Dhandapani, M.; Jothy, V. Bena	Effect of charge transfer with spectral analysis on the antibacterial compound 4-(Dimethyl amino) pyridine: 3,5-Dinitrobenzoic acid: Experimental and theoretical perspective	JOURNAL OF MOLECULAR STRUCTURE	2018	1171		10.1016/j.molstruc.2018.06.026	7
Thirumurugan, R.; Babu, B.; Anitha, K.; Chandrasekaran, J.	Creatininium 4-nitrobenzoate - A phase matchable organic nonlinear optical material with large laser-induced damage threshold value for optoelectronics applications	OPTICS AND LASER TECHNOLOGY	2018	105		10.1016/j.optlasotec.2018.02.048	7

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Anand, Siddeswaran; Muthusamy, Athianna	Synthesis and characterization of oligobenzimidazoles: Electrochemical, electrical, optical, thermal and rectification properties	JOURNAL OF MOLECULAR STRUCTURE	2018	1155		10.1016/j.molstruc.2017.11.010	7
Muthusamy, Athianna; Jawahar, Vajaravel; Kannapiran, Nagarajan; Anand, Siddeswaran; Meena, Sher Singh; Yusuf, S. M.	Preparation, Electrical and Magnetic Properties of Poly(m-phenylenediamine)/ZnFe ₂ O ₄ Nanocomposites	JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM	2018	31	2	10.1007/s10948-017-4220-4	7
Vivek, Devaraj; Kanagarajan, Kuppusamy; Elsayed, Elsayed M.	Nonlocal initial value problems for implicit differential equations with Hilfer-Hadamard fractional derivative	NONLINEAR ANALYSIS-MODELLING AND CONTROL	2018	23	3	10.15388/NA.2018.3.4	7
Sumathi, P.; Chandrasekaran, J.; Marnadu, R.; Muthukrishnan, S.; Maruthamuthu, S.	Synthesis and characterization of tungsten disulfide thin films by spray pyrolysis technique for n-WS ₂ /p-Si junction diode application	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2018	29	19	10.1007/s10854-018-9776-7	6
Elsayed, E. M.; Kanagarajan, K.; Vivek, D.	On the Existence and Stability of Solution of Boundary Value Problem for Fractional Integro-Differential Equations with Complex Order	FILOMAT	2018	32	8	10.2298/FIL1808901E	6
Mohanraj, K.; Balasubramanian, D.; Porkumaran, K.; Jhansi, N.; Chandrasekaran, J.	Impact of Ce content on cubic phase cerium-cadmium oxide (Ce-CdO) nanoparticles and its n-CeCdO/p-Si junction diodes	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2018	29	23	10.1007/s10854-018-0178-7	5
Lakshmanaperumal, S.; Mahendran, C.	Structural, dielectric, cytocompatibility, and in vitro bioactivity studies of yttrium and strontium co-substituted nano-hydroxyapatite by sol-gel method	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	2018	88	2	10.1007/s10971-018-4802-z	5

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Sathya, K.; Dhamodharan, P.; Dhandapani, M.	Hydrogen bonded 2-methyl-1H-imidazol-3-ium 3,5-dinitrobenzoate 3,5-dinitrobenzoic acid, a new optical crystal: Evaluation of properties by structural, spectral, quantum chemical calculations, Z-scan and Hirshfeld studies	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2018	114		10.1016/j.jpcs.2017.10.036	5
Shanmugavadivu, T.; Balachandar, S.; Muthuraja, P.; Dhandapani, M.	Structural, computational and Hirshfeld surface analysis of a proton transfer crystal, amino (2-(propan-2-ylidene) hydrazinyl) methaniminium picrate	JOURNAL OF MOLECULAR STRUCTURE	2018	1171		10.1016/j.molstruc.2018.06.021	4
Babu, B.; Chandrasekaran, J.; Jayaramkrishnan, V.; Ho, Mon-Shu; Thirupugalmani, K.; Chandrasekar, S.; Thirumurugan, R.	2-Amino-6-methylpyridinium nitrophenolate nitrophenol: An organic multiple charge-transfer complex with large second harmonic generation for optoelectronics applications	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY	2018	134	2	10.1007/s10973-018-7386-5	3
Anand, Siddeswaran; Muthusamy, Athianna; Kannapiran, Nagarajan	Synthesis, characterization, thermal, electrical and electrochemical studies of oligo nitrobenzimidazoles and their p-n diode applications	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2018	29	16	10.1007/s10854-018-9468-3	3
Vivek, Devaraj; Kanagarajan, Kuppusamy; Sivasundaram, Seenith	ON THE BEHAVIOR OF SOLUTIONS OF FRACTIONAL DIFFERENTIAL EQUATIONS ON TIME SCALE VIA HILFER FRACTIONAL DERIVATIVES	FRACTIONAL CALCULUS AND APPLIED ANALYSIS	2018	21	4	10.1515/fca-2018-0060	3

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Dilip, R.; Jayaprakash, R.	Effect of Barium on Morphological Transition and Magnetic and Dielectric Properties in Ferrite Nanoparticles	JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM	2018	31	6	10.1007/s10948-017-4379-8	3
Kanagarajan, K.; Suresh, R.	Runge-Kutta method for solving fuzzy differential equations under generalized differentiability	COMPUTATIONAL & APPLIED MATHEMATICS	2018	37	2	10.1007/s40314-016-0397-6	3
Dhamodharan, P.; Sathya, K.; Dhandapani, M.	Experimental and quantum chemical studies of a new organic proton transfer compound, 1H-imidazole-3-ium-3-hydroxy-2,4,6-trinitrophenolate	JOURNAL OF MOLECULAR STRUCTURE	2018	1154		10.1016/j.molstruc.2017.10.024	3
Kannapiran, Nagarajan; Muthusamy, Athianna; Renganathan, B.; Ganesan, A. R.; Jayaprakash, Rajan	Investigation of magnetic, dielectric and ethanol sensing properties of poly(o-phenylenediamine)/NiFe ₂ O ₄ nanocomposites	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2018	29	4	10.1007/s10854-017-8246-y	3
Pradeesh, G.; Ponnuswamy, V.; Gowtham, B.; Suresh, R.; Chandrasekaran, J.	Influence of annealing temperature on the properties of molybdenum oxide nanoparticles prepared through chemical precipitation method for p-n junction diode application	OPTIK	2018	175		10.1016/j.ijleo.2018.09.020	3
Mohanraj, V.; Ponnuswamy, S.	Synthesis, characterization, stereochemistry, biological investigation and DNA binding studies on N-acyl-t-3-ethyl-r-2,c-6-bis(4-methoxyphenyl)piperidin-4-ones	JOURNAL OF MOLECULAR STRUCTURE	2018	1171		10.1016/j.molstruc.2018.05.102	2

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Divya, P.; Muthuraja, P.; Dhandapani, M.; Jothy, V. Bena	Pesticidal compound Pirimicarb: Spectral analysis, DFT computations, molecular docking study and in vitro bioactivity	CHEMICAL PHYSICS LETTERS	2018	706		10.1016/j.cplett.2018.06.021	2
Sathya, K.; Dhamodharan, P.; Dhandapani, M.	Spectral, optical, thermal, Hirshfeld analysis and computational calculations of a new organic proton transfer crystal, 1H-benzo[d][1,2,3]triazol-3-ium-3,5-dinitrobenzoate	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2018	116		10.1016/j.jpics.2018.01.040	2
Kutty, Pullithodi Mohamed; Chandrasekaran, Joseph; Babu, Balraj; Matsushita, Yoshitaka	Spectroscopic Investigations on New Organic NLO crystal-2-amino-5-chloropyridinium-2,4-dinitrophenolate	ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS	2018	232	1	10.1515/zpch-2016-0802	2
Shaji, K. K.; Sharmila, S.; Sushama, George; Janarthanan, B.; Chandrasekaran, J.	Effect of molybdenum on Li ₂ Mn ₄ O ₉ for rechargeable lithium ion batteries	IONICS	2018	24	12	10.1007/s11581-018-2545-z	1
Sudhakar, C.; Saravanabhavan, M.; Sekar, M.; Babu, B.; Chandrasekaran, J.	Crystal Structure and Third Order Nonlinear Optical Studies on 2-Phenylbenzimidazolium-p-Toulenesulphonate	JOURNAL OF STRUCTURAL CHEMISTRY	2018	59	5	10.1134/S002247661805013X	1
Kannapiran, Nagarajan; Muthusamy, Athianna; Anand, Siddeswaran; Jayaprakash, Rajan	Synthesis, Structural, Magnetic and Electrical Characterization of Poly(o-phenylenediamine)/CoFe ₂ O ₄ Nanocomposites	JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM	2018	31	5	10.1007/s10948-017-4343-7	1

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Vidhya, L.; Dhandapani, M.; Shanthi, K.; Kamala-Kannan, S.	Removal of Cr(VI) from aqueous solution using coir pith biochar - An eco-friendly approach	INDIAN JOURNAL OF CHEMICAL TECHNOLOGY	2018	25	3		1
2017							
Muthuraja, P.; Beaula, T. Joselin; Shanmugavadivu, T.; Jothy, V. Bena; Dhandapani, M.	Hydrogen bonded R-2(2)(8) graph set in inducing charge transfer mechanism in guanidinium-3,5-dinitrobenzoate: A combined experimental, theoretical and Hirshfeld surface study	JOURNAL OF MOLECULAR STRUCTURE	2017	1137		10.1016/j.molstruc.2017.02.067	35
Hakeem, A. K. Abdul; Saranya, S.; Ganga, B.	Comparative study on Newtonian/non-Newtonian base fluids with magnetic/non-magnetic nanoparticles over a flat plate with uniform heat flux	JOURNAL OF MOLECULAR LIQUIDS	2017	230		10.1016/j.molliq.2016.12.087	34
Mahmudov, N. I.; Murugesu, R.; Ravichandran, C.; Vijayakumar, V.	Approximate Controllability Results for Fractional Semilinear Integro-Differential Inclusions in Hilbert Spaces	RESULTS IN MATHEMATICS	2017	71	1-2	10.1007/s00025-016-0621-0	33
Sathya, K.; Dhamodharan, P.; Dhandapani, M.	Computational, spectral and structural studies of a new non linear optical crystal: 2-hydroxy pyridinium 3,5-dinitrobenzoate	JOURNAL OF MOLECULAR STRUCTURE	2017	1130		10.1016/j.molstruc.2016.10.018	31
Zhou, Yong; Vijayakumar, V.; Ravichandran, C.; Murugesu, R.	CONTROLLABILITY RESULTS FOR FRACTIONAL ORDER NEUTRAL FUNCTIONAL DIFFERENTIAL INCLUSIONS WITH INFINITE DELAY	FIXED POINT THEORY	2017	18	2	10.24193/fpt-ro.2017.2.62	31

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Manikandan, V.; Vanitha, A.; Kumar, E. Ranjith; Chandrasekaran, J.	Effect of sintering temperature on Structural and Dielectric properties of Sn substituted CuFe ₂ O ₄ Nanoparticles	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2017	423		10.1016/j.jmm m.2016.09.077	29
Muthuraja, P.; Beaula, T. Joselin; Balachandar, S.; Jothy, V. Bena; Dhandapani, M.	Hydrogen bonding interactions and supramolecular assemblies in 2-amino guanidinium 4-methyl benzene sulphonate crystal structure: Hirshfeld surfaces and computational calculations	JOURNAL OF MOLECULAR STRUCTURE	2017	1146		10.1016/j.molst ruc.2017.06.05 5	28
Manikandan, V.; Vanitha, A.; Kumar, E. Ranjith; Chandrasekaran, J.	Effect of In substitution on structural, dielectric and magnetic properties of CuFe ₂ O ₄ nanoparticles	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2017	432		10.1016/j.jmm m.2017.02.030	28
Babu, B.; Chandrasekaran, J.; Thirumurugan, R.; Jayaramakrishnan, V.; Anitha, K.	Experimental and theoretical investigation on 2-amino 5-bromopyridinium L-tartrate-A new organic charge-transfer crystal for optoelectronics device applications	JOURNAL OF MATERIALS SCIENCE- MATERIALS IN ELECTRONICS	2017	28	1	10.1007/s10854-016-5637-4	28
Sundaram, S.; Jayaprakasam, R.; Dhandapani, M.; Senthil, T. S.; Vijayakumar, V. N.	Theoretical (DFT) and experimental studies on multiple hydrogen bonded liquid crystals comprising between aliphatic and aromatic acids	JOURNAL OF MOLECULAR LIQUIDS	2017	243		10.1016/j.molli q.2017.08.010	26
Kannapiran, Nagarajan; Muthusamy, Athianna; Chitra, Palanisamy; Anand, Siddeswaran; Jayaprakash, Rajan	Poly(o-phenylenediamine)/NiCoFe ₂ O ₄ nanocomposites: Synthesis, characterization, magnetic and dielectric properties	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2017	423		10.1016/j.jmm m.2016.09.095	26

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Rajkumar, M.; Chandramohan, A.	Synthesis, growth, characterisation and laser damage threshold studies of N,N-dimethylanilinium-3-carboxy-4-hydroxybenzenesulphonate crystal: An efficient SHG material for electro-optic applications	OPTICAL MATERIALS	2017	66		10.1016/j.optmat.2017.02.022	25
Shanmugavadivu, T.; Senthilkumar, K.; Dhandapani, M.; Muthuraja, P.; Balachandar, S.; Raman, M. Sethu	Theoretical and experimental evaluation of a new organic proton transfer crystal aminoguanidinium p-nitrobenzoate monohydrate for optical limiting applications	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2017	111		10.1016/j.jpics.2017.07.015	24
Rajkumar, M.; Saravanabhavan, M.; Chandramohan, A.	Synthesis, structural, thermal, mechanical, second harmonic generation efficiency and laser damage threshold studies of 4-dimethylaminopyridinium-3,5-dicarboxybenzoate trihydrate single crystal	OPTICAL MATERIALS	2017	72		10.1016/j.optmat.2017.06.011	24
Dhamodharan, P.; Sathya, K.; Dhandapani, M.	Studies on synthesis, structural, luminescent and thermal properties of a new non-linear optical crystal: 4-amino-4H-1,2,4-triazol-1-ium-3-hydroxy-2,4,6-trinitrophenolate	PHYSICA B-CONDENSED MATTER	2017	508		10.1016/j.physb.2016.12.009	24
Vijayakumar, V.; Murugesu, R.; Poongodi, R.; Dhanalakshmi, S.	Controllability of Second-Order Impulsive Nonlocal Cauchy Problem Via Measure of Noncompactness	MEDITERRANEAN JOURNAL OF MATHEMATICS	2017	14	1	10.1007/s00009-016-0813-6	23

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Dineshkumar, Sengottuvelu; Muthusamy, Athianna; Chandrasekaran, J.	Temperature and frequency dependent dielectric properties of electrically conducting oxidatively synthesized polyazomethines and their structural, optical, and thermal characterizations	JOURNAL OF MOLECULAR STRUCTURE	2017	1128		10.1016/j.molstruc.2016.09.051	22
Venkateswari, P.; Thirunavukkarasu, P.; Ramamurthy, M.; Balaji, M.; Chandrasekaran, J.	Optimization and characterization of CuO thin films for P-N junction diode application by JNSP technique	OPTIK	2017	140		10.1016/j.ijleo.2017.04.039	22
Mohanraj, K.; Balasubramanian, D.; Chandrasekaran, J.; Babu, B.	Structural, morphological, optical and electrical properties of nail-shaped CdO nanoparticles synthesized by chemical route assisted microwave irradiation method for P-N junction diode application	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2017	28	11	10.1007/s10854-017-6470-0	21
Babu, B.; Chandrasekaran, J.; Thirumurugan, R.; Anitha, K.; Saravanabhavan, M.	2-Amino-6-methylpyridinium 4-nitrobenzoate: a phase matchable organic single crystal for optoelectronics device applications	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2017	28	13	10.1007/s10854-017-6721-0	20
Dhamodharan, P.; Sathya, K.; Dhandapani, M.	Systematic evaluation of a new organic material: 1-methyl-1H-imidazol-3-ium-2,4,6-trinitrobenzene-1,3-bis(olate) for optoelectronics through spectral, structural, electrical, optical, quantum chemical and Hirshfeld surface studies	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2017	104		10.1016/j.jpccs.2017.01.019	20

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Suresh, R.; Ponnuswamy, V.; Sankar, C.; Manickam, M.; Venkatesan, S.; Perumal, S.	NiO nanoflakes: Effect of anions on the structural, optical, morphological and magnetic properties	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2017	441		10.1016/j.jmmm.2017.05.069	18
Thirumurugan, R.; Babu, B.; Anitha, K.; Chandrasekaran, J.	Experimental and density functional theory (DFT): A dual approach to probe the key properties of creatininium L-tartrate monohydrate single crystal for nonlinear optical applications	JOURNAL OF MOLECULAR STRUCTURE	2017	1149		10.1016/j.molstruc.2017.07.095	16
Dhamodharan, P.; Sathya, K.; Dhandapani, M.	Physico-chemical characterization, density functional theory (DFT) studies and Hirshfeld surface analysis of a new organic optical material: 1H-benzo[d]imidazol-3-ium-2,4,6-trinitrobenzene-1,3 bis(olate)	JOURNAL OF MOLECULAR STRUCTURE	2017	1146		10.1016/j.molstruc.2017.06.022	16
Beaula, T. Joselin; Muthuraja, P.; Sethuram, M.; Dhandapani, M.; Rastogi, V. K.; Jothy, V. Bena	Biological and and spectral studies of O-Tolyl Biguanide: Experimental and theoretical approach	JOURNAL OF MOLECULAR STRUCTURE	2017	1128		10.1016/j.molstruc.2016.08.060	16
Babu, B.; Chandrasekaran, J.; Thirumurugan, R.; Anitha, K.; Saravanabhavan, M.	2-Amino 4-methylpyridinium 3-chlorobenzoate - A phase matchable organic nonlinear optical material for optoelectronics device applications	OPTICS AND LASER TECHNOLOGY	2017	94		10.1016/j.optlastec.2017.04.007	15
Mohanraj, V.; Jayaprakash, R.; Chandrasekaran, J.; Robert, R.; Sangaiya, P.	Influence of pH on particle size, band-gap and activation energy of CdS nanoparticles synthesized at constant frequency ultrasonic wave irradiation	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	2017	66		10.1016/j.mssp.2017.04.006	15

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Ayyannan, Ganesan; Veerasamy, Perumal; Mohanraj, Maruthachalam; Raja, Gunasekaran; Manimaran, Arumugam; Velusamy, Marappan; Bhuvanesh, Nanjan; Nandhakumar, Raju; Jayabalakrishnan, Chinnasamy	Biological evaluation of organometallic palladium(II) complexes containing 4-hydroxybenzoic acid (3-ethoxy-2-hydroxybenzylidene)hydrazide: Synthesis, structure, DNA/protein binding, antioxidant activity and cytotoxicity	APPLIED ORGANOMETALLIC CHEMISTRY	2017	31	5	10.1002/aoc.3599	15
Sivasankaran, S.; Ananthan, S. S.; Bhuvanewari, M.; Hakeem, A. K. Abdul	Double-diffusive mixed convection in a lid-driven cavity with non-uniform heating on sidewalls	SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES	2017	42	11	10.1007/s12046-017-0735-4	14
Rajkumar, M.; Chandramohan, A.	Synthesis, growth and characterization of o-phenylinediaminium benzilate: An SHG material with high laser damage threshold for NLO applications	OPTICAL MATERIALS	2017	64		10.1016/j.optmat.2017.01.015	14
Rajkumar, Madhu; Chandramohan, Angannan	Synthesis, growth, structural, optical, thermal, electrical and mechanical properties of hydrogen bonded organic salt crystal: Triethylammonium-3, 5-dinitrosalicylate	JOURNAL OF MOLECULAR STRUCTURE	2017	1134		10.1016/j.molstruc.2017.01.034	13
Raja, M.; Chandrasekaran, J.; Balaji, M.; Kathirvel, P.	Investigation of microstructural, optical and dc electrical properties of spin coated Al:WO ₃ thin films for n-Al:WO ₃ /p-Si heterojunction diodes	OPTIK	2017	145		10.1016/j.ijleo.2017.07.049	13

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Anand, Siddeswaran; Muthusamy, Athianna	Optical, thermal and electrical properties of polybenzimidazoles derived from substituted benzimidazoles	JOURNAL OF MOLECULAR STRUCTURE	2017	1148		10.1016/j.molstruc.2017.07.040	12
Raja, M.; Chandrasekaran, J.; Balaji, M.	The Structural, Optical and Electrical Properties of Spin Coated WO ₃ Thin Films Using Organic Acids	SILICON	2017	9	2	10.1007/s12633-016-9413-0	12
Shanmugavadivu, T.; Dhandapani, M.; Naveen, S.; Lokanath, N. K.	Synthesis, structural and spectral characterization of a novel NLO crystal N,N'-diphenylguanidinium picrate: diacetone solvate	JOURNAL OF MOLECULAR STRUCTURE	2017	1144		10.1016/j.molstruc.2017.05.015	11
Manickam, M.; Ponnuswamy, V.; Sankar, C.; Suresh, R.; Mariappan, R.; Bose, A. Chandra; Chandrasekaran, J.	Structural, optical, electrical and electrochemical properties of Fe:Co ₃ O ₄ thin films for supercapacitor applications	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2017	28	24	10.1007/s10854-017-7849-7	10
Balachandar, Sundarrajan; Dhandapani, Munusamy; Enoch, Israel Vijayan Muthu Vijayan; Suganthi, Soundrapandian	Structural Analysis, Molecular Docking and DFT Calculations of Bis(Pyrazolium Picrate) Monohydrate Interaction with Calf Thymus DNA and Microbes	CHEMISTRYSELECT	2017	2	29	10.1002/slct.201701484	10
Manikandan, V.; Priyadharsini, N.; Kavita, S.; Chandrasekaran, J.	Sintering treatment effects on structural, dielectric and magnetic properties of Sn substituted NiFe ₂ O ₄ nanoparticles	SUPERLATTICE AND MICROSTRUCTURES	2017	109		10.1016/j.spmi.2017.05.058	10
Sathya, K.; Dhamodharan, P.; Dhandapani, M.	Spectral, optical, thermal, Hirshfeld, antimicrobial studies and computational calculations of a new organic crystal, 1H-benzo[d]imidazol-3-ium-3,5-dinitrobenzoate	JOURNAL OF MOLECULAR STRUCTURE	2017	1137		10.1016/j.molstruc.2017.02.070	10

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Mohanraj, Maruthachalam; Ayyannan, Ganesan; Raja, Gunasekaran; Jayabalakrishnan, Chinnasamy	Synthesis, characterization and in vitro biological assays of copper(II) and nickel(II) complexes with furan-2-carboxylic acid hydrazide	APPLIED ORGANOMETALLIC CHEMISTRY	2017	31	4	10.1002/aoc.3582	10
Anand, Siddeswaran; Muthusamy, Athianna; Dineshkumar, Sengottuvelu; Chandrasekaran, J.	Oxidative polycondensation of benzimidazole using NaOCl: Synthesis, characterization, optical, thermal and electrical properties of polybenzimidazoles	JOURNAL OF MOLECULAR STRUCTURE	2017	1147		10.1016/j.molstruc.2017.06.113	9
Dineshkumar, Sengottuvelu; Muthusamy, Athianna	Investigation of aggregation induced emission in 4-hydroxy-3-methoxybenzaldehyde azine and polyazine towards application in (opto) electronics: synthesis, characterization, photophysical and electrical properties	DESIGNED MONOMERS AND POLYMERS	2017	20		10.1080/15685551.2016.1231039	9
Vivek, D.; Kanagarajan, K.; Sivasundaram, Seenith	Dynamics and Stability Results for Hilfer Fractional Type Thermistor Problem	FRACTAL AND FRACTIONAL	2017	1	1	10.3390/fractalfract1010005	8
Muthusamy, Athianna; Arunkumar, Munusamy; Kannapiran, Nagarajan; Meena, Sher Singh; Yusuf, S. M.	Electrical and magnetic properties of poly(m-phenylenediamine)/NiFe ₂ O ₄ nanocomposites	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2017	28	21	10.1007/s10854-017-7468-3	8
Sampath, K.; Jayabalakrishnan, C.	Biomolecular interaction and cytotoxicity of ruthenium(III) benzothiazole substituted ferrocenyl thiosemicarbazone complexes	ARABIAN JOURNAL OF CHEMISTRY	2017	10		10.1016/j.arabjch.2013.12.017	8

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Jyothi, S.; Ravichandran, J.	Corrosion inhibition of mildsteel in sulphuric acid by methanol extract of Luffa aegyptiaca leaves - electrochemical and statistical view	JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY	2017	31	21	10.1080/01694243.2017.1298301	8
Dhamodharan, P.; Sathya, K.; Dhandapani, M.	Spectral, thermal, structural and quantum chemical calculations of 3,5-dimethyl-1H-pyrazol-2-ium-3-hydroxy-2,4,6-trinitrophenolate - A new organic proton transfer crystal	JOURNAL OF MOLECULAR STRUCTURE	2017	1149		10.1016/j.molstruc.2017.08.025	7
Ganga, B.; Ansari, S. Mohamed Yusuff; Ganesh, N. Vishnu; Hakeem, A. K. Abdul	Hydromagnetic flow and radiative heat transfer of nanofluid past a vertical plate	JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE	2017	11	6	10.1016/j.jtusci.2015.12.005	7
Thirumurugan, Ramaiah; Babu, Balraj; Anitha, Kandasamy; Chandrasekaran, Joseph	Experimental and Computational Perspectives on Bis(Creatininium) Succinate: An Efficient Organic Nonlinear Optical Material	ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS	2017	231	11-12	10.1515/zpch-2016-0896	7
Mohanbabu, B.; Bharathikannan, R.; Siva, G.	Structural, optical, dielectric, mechanical and Z-scan NLO studies of charge transfer complex crystal: 3-aminopyridinum-4-hydroxy benzoate	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2017	28	18	10.1007/s10854-017-7218-6	7

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Singaravelan, K.; Chandramohan, A.; Saravanabhavan, M.; Enoch, I. V. Muthu Vijayan; Suganthi, V. S.	Hydrogen bonded charge transfer molecular salt (4-chloro anilinium-3-nitrophthalate) for photophysical and pharmacological applications	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	2017	184		10.1016/j.saa.2017.05.016	6
Balaji, M.; Chandrasekaran, J.; Raja, M.	Characterization of WMoO ₃ Thin Films and its n-WMoO ₃ /p-Si Junction Diodes Via JNS Pyrolysis Technique	ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS	2017	231	5	10.1515/zpch-2016-0861	6
Pradeesh, G.; Ponnuswamy, V.; Chandrasekaran, J.; Gowtham, B.; Ashokan, S.	Structural, morphological, optical and electrical properties of PANI: Mo ₁₃ O ₃₃ composite prepared by in-situ chemical oxidative method-application to p-n junction diode	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2017	28	22	10.1007/s10854-017-7663-2	5
Mohanraj, V.; Ponnuswamy, S.	Design, synthesis, characterisation, conformation and biological investigation of N-acyl r-2,c-6-bis (4-methoxyphenyl)-c-3,t-3-dimethylpiperidin-4-ones	JOURNAL OF MOLECULAR STRUCTURE	2017	1144		10.1016/j.molstruc.2017.05.036	5

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Maruthamuthu, S.; Chandrasekaran, J.; Manoharan, D.; Magesh, R.	Conductivity and dielectric analysis of nanocolloidal polypyrrole particles functionalized with higher weight percentage of poly(styrene sulfonate) using the dispersion polymerization method	JOURNAL OF POLYMER ENGINEERING	2017	37	5	10.1515/polyeng-2015-0321	5
Chandra, L.; Chandrasekaran, J.; Perumal, K.; Babu, B.; Jayaramakrishnan, V.	Investigation on optical, electrical and etching properties of 2-aminopyridinium 4-aminobenzoate: A phase matchable organic single crystal for optoelectronic device applications	MATERIALS SCIENCE-POLAND	2017	35	1	10.1515/msp-2017-0030	5
Rajkumar, M.; Chandramohan, A.	Synthesis, structural, thermal and mechanical properties of 1,10-phenanthroline-3-carboxy-4-hydroxy benzene sulphonate crystal: An efficient SHG material with a high laser damage threshold for NLO applications	MATERIALS LETTERS	2017	199		10.1016/j.matlet.2017.04.049	4
Sankar, C.; Ponnuswamy, V.; Manickam, M.; Suresh, R.; Mariappan, R.; Vinod, P. S.	Structural, morphological, optical and gas sensing properties of pure and Ce doped SnO ₂ thin films prepared by jet nebulizer spray pyrolysis (JNSP) technique	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2017	28	6	10.1007/s10854-016-6094-9	4
Hakeem, Abdul Kafoor Abdul; Ganga, Bhose; Ansari, Sait Mohamed Yusuff; Ganesh, Nagaraj Vishnu; Rahman, Mohammad Mansur	Nonlinear studies on the effect of non-uniform heat generation/absorption on hydromagnetic flow of nanofluid over a vertical plate	NONLINEAR ANALYSIS-MODELLING AND CONTROL	2017	22	1	10.15388/NA.2017.1.1	4

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Vidhya, Lakshmanaperumal; Dhandapani, Munusamy; Shanthi, Kuppusamy	Sequestering Divalent Nickel Ions from Aqueous Solution Using Activated Carbon of Citrus limetta Peel: Isothermic and Kinetic Studies	POLISH JOURNAL OF ENVIRONMENTAL STUDIES	2017	26	4	10.15244/pjoes/69092	4
Rajkumar, M.; Chandramohan, A.	Synthesis, crystal structure, physicochemical properties of hydrogen bonded supramolecular assembly of N,N-diethylanilinium-3, 5-dinitrosalicylate crystal	JOURNAL OF MOLECULAR STRUCTURE	2017	1149		10.1016/j.molstruc.2017.08.021	3
Mohanraj, V.; Jayaprakash, R.; Sangaiya, P.; Gopi, S.; Dilip, R.; Suresh, R.	Study of photocatalytic activity and inherent property of surfactant (PVA) on CdS nanoparticles by ultrasonic wave irradiation method	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2017	42	47	10.1016/j.ijhydene.2017.09.094	3
Vadivelan, G.; Saravanabhavan, M.; Murugesan, V.; Gohulvani, G.; Sekar, M.; Babu, B.	Synthesis, spectroscopic investigations, antioxidants and DNA binding studies of a charge transfer of benzimidazole with 4-methylbenzenesulfonic acid	MOLECULAR CRYSTALS AND LIQUID CRYSTALS	2017	652	1	10.1080/15421406.2017.1378045	3
Rathinasamy, Poongodi; Rangasamy, Murugesu; Rajendran, Nirmalkumar	EXACT CONTROLLABILITY RESULTS FOR A CLASS OF ABSTRACT NONLOCAL CAUCHY PROBLEM WITH IMPULSIVE CONDITIONS	EVOLUTION EQUATIONS AND CONTROL THEORY	2017	6	4	10.3934/eect.2017030	1
Mohanbabu, B.; Bharathikannan, R.; Siva, G.	Investigations on structural, optical, electrical, mechanical and third-order nonlinear behaviour of 3-aminopyridinium 2,4-dinitrophenolate single crystal	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2017	123	10	10.1007/s00339-017-1262-1	1
Vijayanand, P. S.; Jeeva, A.; Ashokan, S.; Kojima, T.; Kato, S.; Chandrasekaran, J.	In-Situ Synthesis of Poly (An-co-m-TFMA) Electro Active Copolymer: Characterization and Application as Humidity Sensor	JOURNAL OF POLYMER MATERIALS	2017	34	3		1

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Sampath, Krishnan; Mohanraj, Maruthachalam; Jayabalakrishnan, Chinnasamy	DNA interaction and antioxidant studies of ruthenium(II) complexes containing mixed ligands	INORGANIC AND NANO-METAL CHEMISTRY	2017	47	7	10.1080/24701556.2017.1284089	1
Saravanan, Shanmugam; Hakeem, Abdul Kaffoor Abdul; Kandaswamy, Palanigounder	Interaction Between Two Mutually Orthogonal Heat-Generating Baffles in a Square Cavity	HEAT TRANSFER ENGINEERING	2017	38	2	10.1080/01457632.2016.1177426	1
Vadivelan, Ganesan; Murugesan, Venkatesan; Saravanabhavan, Munusamy; Sekar, Marimuthu	Synthesis, spectral, structural and thermal characterization of NLO active crystal: 2-hydroxyethylammonium-4-nitrobenzoate	OPTIK	2017	140		10.1016/j.ijleo.2017.04.053	1
2016							
Balaji, M.; Chandrasekaran, J.; Raja, M.	Role of substrate temperature on MoO ₃ thin films by the JNS pyrolysis technique for P-N junction diode application	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	2016	43		10.1016/j.mssp.2015.12.009	71
Rashidi, M. M.; Ganesh, N. Vishnu; Hakeem, A. K. Abdul; Ganga, B.; Lorenzini, Giulio	Influences of an effective Prandtl number model on nano boundary layer flow of gamma Al ₂ O ₃ -H ₂ O and gamma Al ₂ O ₃ -C ₂ H ₆ O ₂ over a vertical stretching sheet	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	2016	98		10.1016/j.ijheatmasstransfer.2016.03.006	53
Hakeem, A. K. Abdul; Renuka, P.; Ganesh, N. Vishnu; Kalaivanan, R.; Ganga, B.	Influence of inclined Lorentz forces on boundary layer flow of Casson fluid over an impermeable stretching sheet with heat transfer	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2016	401		10.1016/j.jmm.2015.10.026	48
Kumar, N. Senthil; Raman, M. Sethu; Chandrasekaran, J.; Priya, R.; Chavali, Murthy; Suresh, R.	Effect of post-growth annealing on the structural, optical and electrical properties of V ₂ O ₅ nanorods and its fabrication, characterization of V ₂ O ₅ /p-Si junction diode	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	2016	41		10.1016/j.mssp.2015.08.020	47

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Mahmudov, N. I.; Vijayakumar, V.; Murugesu, R.	Approximate Controllability of Second-Order Evolution Differential Inclusions in Hilbert Spaces	MEDITERRANEAN JOURNAL OF MATHEMATICS	2016	13	5	10.1007/s00009-016-0695-7	41
Babu, B.; Chandrasekaran, J.; Mohanbabu, B.; Matsushita, Yoshitaka; Saravanakumar, M.	Growth, physicochemical and quantum chemical investigations on 2-amino 5-chloropyridinium 4-carboxybutanoate - an organic crystal for biological and optoelectronic device applications	RSC ADVANCES	2016	6	112	10.1039/c6ra15791b	37
Raja, M.; Chandrasekaran, J.; Balaji, M.; Janarthanan, B.	Impact of annealing treatment on structural and dc electrical properties of spin coated tungsten trioxide thin films for Si/WO ₃ /Ag junction diode	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	2016	56		10.1016/j.mssp.2016.08.007	36
Mohanraj, Maruthachalam; Ayyannan, Ganesan; Raja, Gunasekaran; Jayabalakrishnan, Chinnasamy	Evaluation of DNA binding, DNA cleavage, protein binding, radical scavenging and in vitro cytotoxic activities of ruthenium(II) complexes containing 2,4-dihydroxy benzylidene ligands	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	2016	69		10.1016/j.msec.2016.08.043	34
Mohanraj, Maruthachalam; Ayyannan, Ganesan; Raja, Gunasekaran; Jayabalakrishnan, Chinnasamy	Synthesis, spectral characterization, DNA interaction, radical scavenging and cytotoxicity studies of ruthenium(II) hydrazone complexes	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY	2016	158		10.1016/j.jphotobiol.2016.03.005	31
Rajkumar, M.; Chandramohan, A.	Synthesis, spectral, thermal, mechanical and structural characterization of NLO active organic salt crystal: 3,5-Dimethylpyrazolium-3-Nitrophthalate	MATERIALS LETTERS	2016	181		10.1016/j.matlett.2016.04.191	28

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Chandra, L.; Chandrasekaran, J.; Perumal, K.; Babu, B.	Third order nonlinear optical and electrical properties of new 2-aminopyridinium 2-chloro 4-nitrobenzoate single crystals	OPTIK	2016	127	6	10.1016/j.ijleo.2015.12.092	27
Muthuraja, P.; Sethuram, M.; Shanmugavadivu, T.; Dhandapani, M.	Single crystal X-ray diffraction and Hirshfeld surface analyses of supramolecular assemblies in certain hydrogen bonded heterocyclic organic crystals	JOURNAL OF MOLECULAR STRUCTURE	2016	1122		10.1016/j.molstruc.2016.05.083	26
Ramamurthy, Murugasamy; Balaji, Murugan; Thirunavukkarasu, Perumal	Characterization of jet nebulizer sprayed CdO thin films for solar cell application	OPTIK	2016	127	8	10.1016/j.ijleo.2016.01.031	25
Balaji, M.; Chandrasekaran, J.; Raja, M.; Rajesh, S.	Structural, optical and electrical properties of Ru doped MoO ₃ thin films and its P-N diode application by JNS pyrolysis technique	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2016	27	11	10.1007/s10854-016-5300-0	24
Balachandar, S.; Sethuram, M.; Muthuraja, P.; Shanmugavadivu, T.; Dhandapani, M.	Ligand based pharmacophoric modelling and docking of bioactive pyrazolium 3-nitrophthalate (P3NP) on Bacillus subtilis, Aspergillus fumigatus and Aspergillus niger - Computational and Hirshfeld surface analysis	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY	2016	163		10.1016/j.jphotobiol.2016.08.045	24
Ganesh, N. Vishnu; Hakeem, A. K. Abdul; Ganga, B.	A comparative theoretical study on Al ₂ O ₃ and gamma-Al ₂ O ₃ nanoparticles with different base fluids over a stretching sheet	ADVANCED POWDER TECHNOLOGY	2016	27	2	10.1016/j.appt.2016.01.015	24
Ayyannan, Ganesan; Mohanraj, Maruthachalam; Raja, Gunasekaran; Bhuvanesh, Nanjan; Nandhakumar, Raju; Jayabalakrishnan, Chinnasamy	Design, synthesis, structure and biological evaluation of new palladium(II) hydrazone complexes	INORGANICA CHIMICA ACTA	2016	453		10.1016/j.ica.2016.09.025	23

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Dineshkumar, Sengottuvelu; Muthusamy, Athianna	Synthesis and Spectral Characterization of Cross Linked Rigid Structured Schiff Base Polymers: Effect of Substituent Position Changes on Optical, Electrical, and Thermal Properties	POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING	2016	55	4	10.1080/03602559.2015.1098680	23
Suresh, R.; Ponnuswamy, V.; Sankar, C.; Manickam, M.; Mariappan, R.	Influence of Co concentration on the structural, optical, morphological and photo-diode properties of cerium oxide thin films	CERAMICS INTERNATIONAL	2016	42	11	10.1016/j.ceramint.2016.05.026	19
Suresh, R.; Ponnuswamy, V.; Sankar, C.; Manickam, M.; Mariappan, R.	IDC golf-ball structured thin films: preparation, characterization and photodiode properties	RSC ADVANCES	2016	6	59	10.1039/c6ra07716a	19
Thirumurugan, R.; Babu, B.; Anitha, K.; Chandrasekaran, J.	Structural, optical, thermal, mechanical, dielectric and laser damage threshold studies of a succinate salt of creatinine for nonlinear optical applications	MATERIALS LETTERS	2016	185		10.1016/j.matlet.2016.08.127	18
Kannapiran, Nagarajan; Muthusamy, Athianna; Chitra, Palanisamy	Effect of MnCuFe ₂ O ₄ content on magnetic and dielectric properties of poly (O-Phenylenediamine)/MnCuFe ₂ O ₄ nanocomposites	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2016	401		10.1016/j.jmmm.2015.10.052	16
Manickam, M.; Ponnuswamy, V.; Sankar, C.; Suresh, R.	Cobalt oxide thin films prepared by NSP technique: Impact of molar concentration on the structural, optical, morphological and electrical properties	OPTIK	2016	127	13	10.1016/j.ijleo.2016.03.008	15

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Kayalvizhi, M.; Kalaivanan, R.; Ganesh, N. Vishnu; Ganga, B.; Hakeem, A. K. Abdul	Velocity slip effects on heat and mass fluxes of MHD viscous-Ohmic dissipative flow over a stretching sheet with thermal radiation	AIN SHAMS ENGINEERING JOURNAL	2016	7	2	10.1016/j.asej.2015.05.010	14
Mohanraj, V.; Jayaprakash, R.; Robert, R.; Balavijayalakshmi, J.; Gopi, S.	Effect of particle size on optical and electrical properties in mixed CdS and NiS nanoparticles synthesis by ultrasonic wave irradiation method	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	2016	56		10.1016/j.mssp.2016.08.014	13
Ayyannan, Ganesan; Mohanraj, Maruthachalam; Raja, Gunasekaran; Bhuvanesh, Nanjan; Nandhakumar, Raju; Jayabalakrishnan, Chinnasamy	New palladium(II) hydrazone complexes: Synthesis, structure and biological evaluation	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY	2016	163		10.1016/j.jphotobiol.2016.08.003	12
Pradeep, Chandrasekar; Chandrasekar, Arunachalam; Murugesu, Rangasamy; Rakkiyappan, Rajan	Robust Stability Analysis of Stochastic Neural Networks with Markovian Jumping Parameters and Probabilistic Time-Varying Delays	COMPLEXITY	2016	21	5	10.1002/cplx.21630	12
Beaula, T. Joselin; Muthuraja, P.; Dhandapani, M.; Joe, I. Hubert; Rastogi, V. K.; Jothy, V. Bena	Biological applications and spectroscopic investigations of 4-nitrophenol-urea dimer: A DFT approach	CHEMICAL PHYSICS LETTERS	2016	645		10.1016/j.cplett.2015.12.029	11
Raja, M.; Chandrasekaran, J.; Balaji, M.	Evaluation of microstructural and electrical properties of WO ₃ -x thin films for p-Si/n-WO ₃ -x/Ag junction diodes	OPTIK	2016	127	22	10.1016/j.ijleo.2016.08.079	11
Mohanraj, Maruthachalam; Ayyannan, Ganesan; Raja, Gunasekaran; Jayabalakrishnan, Chinnasamy	Synthesis, characterization, DNA binding, DNA cleavage, antioxidant and in vitro cytotoxicity studies of ruthenium(II) complexes containing hydrazone ligands	JOURNAL OF COORDINATION CHEMISTRY	2016	69	23	10.1080/00958972.2016.1235700	10

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Kannan, S. Karthik; Thirnavukkarasu, P.; Jayaprakash, R.; Chandrasekaran, J.; Mohanraj, V.	Transition of nanocrystalline In(OH)(3) as spherical Indium Oxide nanoparticles embedded platelets	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	2016	50		10.1016/j.mssp.2016.04.010	9
Mahudeswaran, A.; Vivekanandan, J.; Jeeva, A.; Chandrasekaran, J.; Vijayanand, P. S.	Synthesis, characterization, optical and electrical properties of nanostructured poly(aniline-co-o-bromoaniline) prepared by in-situ polymerization method	OPTIK	2016	127	8	10.1016/j.ijleo.2016.01.095	9
Mohanraj, Maruthachalam; Ayyannan, Ganesan; Raja, Gunasekaran; Jayabalakrishnan, Chinnasamy	Ruthenium(II) complexes containing 4-methoxybenzhydrazone ligands: synthesis, characterization, DNA binding, DNA cleavage, radical scavenging and in vitro cytotoxic activity	APPLIED ORGANOMETALLIC CHEMISTRY	2016	30	7	10.1002/aoc.3468	8
Balaji, M.; Chandrasekaran, J.; Raja, M.	Morphological and optical evolution of different organic acids used MoO ₃ thin films by spin coating method	OPTIK	2016	127	15	10.1016/j.ijleo.2016.04.021	8
Kavitha, V.; Abbas, Syed; Murugesu, R.	Asymptotically Almost Automorphic Solutions of Fractional Order Neutral Integro-Differential Equations	BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY	2016	39	3	10.1007/s40840-015-0205-2	7
Maruthamuthu, S.; Chandrasekaran, J.; Manoharan, D.; Karthick, S. N.; Kim, Hee-Je	Multilayer photoactive nanocolloidal PPy:PSS as a novel substitute for Pt free counter electrode in DSSC	JOURNAL OF APPLIED POLYMER SCIENCE	2016	133	10	10.1002/APP.43114	7

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Priya, R.; Raman, M. Sethu; Kumar, N. Senthil; Chandrasekaran, J.; Balan, R.	Synthesis and characterization of CTAB-assisted WO ₃ deposited on silicon for the fabrication of photoresponse p-n junction diode	OPTIK	2016	127	19	10.1016/j.ijleo.2016.05.072	7
Sharmila, S.; Janarthanan, B.; Chandrasekaran, J.	Synthesis and characterization of Co-doped lithium manganese oxide as a cathode material for rechargeable Li-ion battery	IONICS	2016	22	9	10.1007/s11581-016-1686-1	6
Manickam, M.; Ponnuswamy, V.; Sankar, C.; Mariappan, R.; Suresh, R.	Influence of Substrate Temperature on the Properties of Cobalt Oxide Thin Films Prepared by Nebulizer Spray Pyrolysis (NSP) Technique	SILICON	2016	8	3	10.1007/s12633-015-9316-5	6
Kumar, G. Dinesh; Amirthaganesan, G.; Sethuram, M.	Synthesis, spectral, structural, thermal and optical studies on dimethylammonium 4-nitrobenzoate - an organic charge transfer complex	OPTIK	2016	127	1	10.1016/j.ijleo.2015.10.012	6
Maruthamuthu, S.; Chandrasekaran, J.; Manoharan, D.; Karthick, S. N.; Kim, Hee-Je	Effect of CuBr ₂ salt treatment on the performance of nanocolloidal PPy:PSS multilayer thin film counter electrodes of dye-sensitized solar cells	JOURNAL OF APPLIED POLYMER SCIENCE	2016	133	32	10.1002/app.43772	4
Dhanakodi, K.; Thirunavukkarasu, P.; Mariappan, R.; Rajamanickam, A. T.	Effect of substrate temperature on the nebulizer sprayed zinc oxide thin films	OPTIK	2016	127	5	10.1016/j.ijleo.2015.10.143	3
Mathivanan, V.; Haris, M.; Chandrasekaran, J.	Thermal, magnetic, dielectric and anti microbial properties of solution-grown pure and doped sodium potassium tartrate crystals	OPTIK	2016	127	4	10.1016/j.ijleo.2015.11.092	3

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Maruthamuthu, S.; Chandrasekaran, J.; Manoharan, D.; Karthick, S. N.; Kim, Hee-Je; Saravanakumar, B.	CuBr ₂ -induced charge screening on photoactive nanocolloidal polypyrrole:poly(styrene sulfonate) composite multilayer thin-film counter electrodes for high-efficiency dye-sensitized solar cells	POLYMER INTERNATIONAL	2016	65	5	10.1002/pi.5098	1
Mathivanan, V.; Haris, M.; Chandrasekaran, J.	Experimental investigation of the structure, magnetic moment and decomposition process on heating in dipotassium tartarate crystals grown in chemical reaction gel method	OPTIK	2016	127	9	10.1016/j.ijleo.2016.01.062	1
Rajamanickam, A. T.; Thirunavukkarasu, P.; Dhanakodi, K.	Studies on the structural, optical and electrical properties of Nb doped TiO ₂ nanostructured thin films	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS	2016	18	1-2		1
Ilayabarathi, P.; Chandrasekaran, J.; Babu, B.	Spectral, dielectric and optical properties of urea barium chloride nonlinear optical crystals	OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS	2016	10	3-4		0
Ilayabarathi, P.; Chandrasekaran, J.; Babu, B.	Growth and characterization of semi-organic urea mercury chloride (UMC) nonlinear optical crystal	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS	2016	18	1-2		0

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Kutty, P. Mohamed; Chandrasekaran, J.; Babu, B.; Hazeen, A. Nizarul	Synthesis, crystal growth and characterization of new semi-organic nonlinear optical material-L-proline barium nitrate (LPBN)	OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS	2016	10	1-2		0
Siva, G.; Bharathikannan, R.; Mohanbabu, B.	Growth and characterization of organic Nonlinear optical material: acenaphthene DL- malic acid (ADLMA)	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS	2016	18	1-2		0




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