



### SCI Published Papers 2021

Sl No	Name of the Faculty	Chicago format	Link to the relevant document
1	Dr R Hanumantha Rao	Hanumantharao, R., and S. Kalainathan. "Microhardness and SHG efficiency of pure and picric acid-added KDP crystals." <i>Bulletin of Materials Science</i> 44, no. 2 (2021): 1-6.	<a href="https://link.springer.com/article/10.1007/s12034-021-02411-8">https://link.springer.com/article/10.1007/s12034-021-02411-8</a>
2	Dr. Santhosh Kumar Alla	Alla, S. K., A. Gangwar, S. K. Shaw, M. K. Viswanadh, K. Neogi, M. S. Muthu, Nidhi Gupta et al. "Physical and in-vitro evaluation of pure and substituted MxCe <sub>1-x</sub> O <sub>2</sub> (M= Co, Fe or Ti and x= 0.05) magnetic nanoparticles." <i>Ceramics International</i> 47, no. 7 (2021): 8812-8819.	<a href="https://doi.org/10.1016/j.ceramint.2020.12.001">https://doi.org/10.1016/j.ceramint.2020.12.001</a>
3	Dr. K. Sirisha	Korrai, Sirisha, Kranthi Kumar Gangu, PVV Prasada Rao, and Sreekantha B. Jonnalagadda. "A study on assessment of vulnerability of seawater intrusion to groundwater in coastal areas of Visakhapatnam, India." <i>Environment, Development and Sustainability</i> 23, no. 4 (2021): 5937-5955.	<a href="https://link.springer.com/article/10.1007/s10668-020-00855-2">https://link.springer.com/article/10.1007/s10668-020-00855-2</a>
4	Dr. Kranthi Kumar Gangu	Gangu, Kranthi Kumar, Vasantha Kalyani JVSK, Suresh Maddila, and Sreekantha B. Jonnalagadda. "Preparation and characterisation of new Ti/Fluorapatite/MWCNTs ternary nanocomposite and its catalytic activity in the synthesis of pyrazolo [3, 4-b] quinoline moieties." <i>Materials Today Communications</i> 27 (2021): 102206.	<a href="https://doi.org/10.1016/j.mtcomm.2021.102206">https://doi.org/10.1016/j.mtcomm.2021.102206</a>
5	Dr. K. V. Vivekananda	Vivekananda, K. V., B. Dhanalakshmi, B. Parvatheeswara Rao, and PSV Subba Rao. "Enhanced magnetoelectric coupling in Bi <sub>0.95</sub> Mn <sub>0.05</sub> FeO <sub>3</sub> -Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> nanocomposites for spintronic applications." <i>Applied Physics A</i> 127, no. 3 (2021): 1-9.	<a href="https://link.springer.com/article/10.1007/s00339-021-04346-7">https://link.springer.com/article/10.1007/s00339-021-04346-7</a>
6	Dr K Madhusudhana Rao	Sai, K. Vijay, K. Madhusudhana Rao, E. Rajasekhar, Dwaraka Rani Rao, Deepa Seetharaman, and Venkataramaniah Kamiseti. "Precision Measurements of Internal Conversion Coefficients of Low Energy Transitions in <sup>169</sup> Tm for Efficiency Calibration of Electron Detectors." <i>Physics of Atomic Nuclei</i> 83, no. 6 (2020): 796-801.	DOI: <a href="https://doi.org/10.1134/S1063778820660084">10.1134/S1063778820660084</a>
7	Dr Dhana Lakshmi Botta	Chandra Sekhar, B., B. Dhanalakshmi, B. Srinivasa Rao, S. Ramesh, P. S. V. Subba Rao, and B. Parvatheeswara Rao. "Structural and electrical properties of Nd <sup>3+</sup> doped ferroelectric barium sodium niobate ceramics." <i>Ferroelectrics</i> 572, no. 1 (2020): 158-163.	<a href="https://doi.org/10.1080/00150193.2020.1869514">https://doi.org/10.1080/00150193.2020.1869514</a>
8	Dr Dhana Lakshmi Botta	Chandra Sekhar, B., B. Dhana Lakshmi, M. Ratna Raju, S. Ramesh, P. S. V. Subba Rao, and B.	<a href="https://doi.org/10.1080/00150193.2021.189047">https://doi.org/10.1080/00150193.2021.189047</a>

		Parvatheeswara Rao. "Synthesis, structural and microstructural properties of CBN ferroelectric ceramics." <i>Ferroelectrics</i> 573, no. 1 (2021): 154-165.	1
9	Dr. Santhosh Kumar Alla	Gangwar, A., S. K. Alla, and N. K. Prasad. "RF induction heating and in-vitro study of citrate functionalized Zr-substituted Fe <sub>3</sub> O <sub>4</sub> nanoparticles with human lung adenocarcinoma (A549) cell." <i>Physica B: Condensed Matter</i> 611 (2021): 412970.	<a href="https://doi.org/10.1016/j.physb.2021.412970">https://doi.org/10.1016/j.physb.2021.412970</a>
10	Dr K Madhusudhana Rao	Deepa, S., K. Vijay Sai, Dwaraka Rani Rao, K. Madhusudhana Rao, and K. Venkataramaniah. "EC-decay of <sup>133</sup> Ba revisited by electron-gamma spectroscopy." <i>Journal of Radioanalytical and Nuclear Chemistry</i> (2021): 1-10.	<a href="https://link.springer.com/article/10.1007/s10967-021-07731-x">https://link.springer.com/article/10.1007/s10967-021-07731-x</a>
11	Dr. Santhosh Kumar Alla	Shaw, S. K., A. Gangwar, A. Sharma, S. K. Alla, S. Kavita, M. Vasundhara, Sher Singh Meena, P. Maiti, and N. K. Prasad. "Structural and magnetic properties of nanocrystalline equi-atomic spinel high-entropy oxide (AlCoFeMnNi) <sub>3</sub> O <sub>4</sub> synthesised by microwave assisted co-precipitation technique." <i>Journal of Alloys and Compounds</i> 878 (2021): 160269.	<a href="https://doi.org/10.1016/j.jallcom.2021.160269">https://doi.org/10.1016/j.jallcom.2021.160269</a>
12	Dr. Santhosh Kumar Alla	Shaw, S. K., J. Kailashiya, A. Gangwar, S. K. Alla, Santosh K. Gupta, C. L. Prajapat, Sher Singh Meena, D. Dash, P. Maiti, and N. K. Prasad. "γ-Fe <sub>2</sub> O <sub>3</sub> nanoflowers as efficient magnetic hyperthermia and photothermal agent." <i>Applied Surface Science</i> 560 (2021): 150025.	<a href="https://doi.org/10.1016/j.apsusc.2021.150025">https://doi.org/10.1016/j.apsusc.2021.150025</a>
13	Dr. Subhash Chandra	Samal, Biswajit, Kumar Raja, Brajesh Kumar Dubey, Jayanta Bhattacharya, Subhash Chandra, and Isha Medha. "Influence of process parameters on thermal characteristics of char from co-pyrolysis of eucalyptus biomass and polystyrene: Its prospects as a solid fuel." <i>Energy</i> (2021): 121050.	<a href="https://doi.org/10.1016/j.energy.2021.121050">https://doi.org/10.1016/j.energy.2021.121050</a>
14	Dr. Subhash Chandra	Samal, Biswajit, Kumar Raja Vanapalli, Brajesh Kumar Dubey, Jayanta Bhattacharya, Subhash Chandra, and Isha Medha. "Char from the co-pyrolysis of Eucalyptus wood and low-density polyethylene for use as high-quality fuel: Influence of process parameters." <i>Science of The Total Environment</i> 794 (2021): 148723.	DOI: 10.1016/j.scitotenv.2021.148723
15	Dr. Subhash Chandra	Vanapalli, Kumar Raja, Jayanta Bhattacharya, Biswajit Samal, Subhash Chandra, Isha Medha, and Brajesh K. Dubey. "Inhibitory and synergistic effects on thermal behaviour and char characteristics during the co-pyrolysis of biomass and single-use plastics." <i>Energy</i> 235 (2021): 121369.	<a href="https://doi.org/10.1016/j.energy.2021.121369">https://doi.org/10.1016/j.energy.2021.121369</a>
16	Thirupathi rao	Meeravali, Sk, Debnath Bhattacharyya, N. Thirupathi Rao, and Yu-Chen Hu. "Performance analysis of an improved forked communication network model." <i>Connection Science</i> (2021): 1-29.	<a href="https://doi.org/10.1080/09540091.2020.1867064">https://doi.org/10.1080/09540091.2020.1867064</a>
17	E Laxmi Lydia	Manne, Suneetha, E. Laxmi Lydia, Irina V. Pustokhina, Denis A. Pustokhin, Velmurugan Subbiah Parvathy, and K. Shankar. "An intelligent energy management and traffic predictive model for autonomous vehicle systems." <i>Soft</i>	DOI: <a href="https://doi.org/10.1007/s00500-021-05614-7">10.1007/s00500-021-05614-7</a>

		<i>Computing</i> (2021): 1-13.	
18	E Laxmi Lydia	Lydia, E. L., A. A. Jovith, A. F. S. Devaraj, C. Seo, and G. P. Joshi. "Green Energy Efficient Routing with Deep Learning Based Anomaly Detection for Internet of Things (IoT) Communications. <i>Mathematics</i> 2021, 9, 500." (2021).	<a href="https://doi.org/10.3390/math9050500">https://doi.org/10.3390/math9050500</a>
19	Dr. E Laxmi Lydia	Lydia, E. Laxmi, Joshua Samuel Raj, R. Pandi Selvam, Mohamed Elhoseny, and K. Shankar. "Application of discrete transforms with selective coefficients for blind image watermarking." <i>Transactions on Emerging Telecommunications Technologies</i> 32, no. 2 (2021): e3771.	<a href="https://doi.org/10.1002/ett.3771">https://doi.org/10.1002/ett.3771</a>
20	Dr. E Laxmi Lydia	Sujitha, Ben, Velmurugan Subbiah Parvathy, E. Laxmi Lydia, Poonam Rani, Zdzislaw Polkowski, and K. Shankar. "Optimal deep learning based image compression technique for data transmission on industrial Internet of things applications." <i>Transactions on Emerging Telecommunications Technologies</i> 32, no. 7 (2021): e3976.	<a href="https://doi.org/10.1002/ett.3976">https://doi.org/10.1002/ett.3976</a>
21	Dr. E Laxmi Lydia	Krishnaraj, N., Mohamed Elhoseny, E. Laxmi Lydia, K. Shankar, and Omar ALDabbas. "An efficient radix trie-based semantic visual indexing model for large-scale image retrieval in cloud environment." <i>Software: Practice and Experience</i> 51, no. 3 (2021): 489-502.	<a href="https://doi.org/10.1002/spe.2834">https://doi.org/10.1002/spe.2834</a>
22	Dr. E Laxmi Lydia	Jayanthi, J., E. Laxmi Lydia, N. Krishnaraj, T. Jayasankar, R. Lenin Babu, and R. Adaline Suji. "An effective deep learning features based integrated framework for iris detection and recognition." <i>Journal of Ambient Intelligence and Humanized Computing</i> 12 (2021): 3271-3281.	<a href="https://link.springer.com/article/10.1007/s12652-020-02172-y">https://link.springer.com/article/10.1007/s12652-020-02172-y</a>
23	E Laxmi Lydia	Pustokhina, Irina V., Denis A. Pustokhin, E. Laxmi Lydia, Mohamed Elhoseny, and K. Shankar. "Energy Efficient Neuro-Fuzzy Cluster based Topology Construction with Metaheuristic Route Planning Algorithm for Unmanned Aerial Vehicles." <i>Computer Networks</i> (2021): 108214.	<a href="https://doi.org/10.1016/j.comnet.2021.108214">https://doi.org/10.1016/j.comnet.2021.108214</a>
24	<b>Doppala, Bhanu Prakash</b>	Doppala, Bhanu Prakash, Debnath Bhattacharyya, Midhun Chakkravarthy, and Tai-hoon Kim. "A hybrid machine learning approach to identify coronary diseases using feature selection mechanism on heart disease dataset." <i>Distributed and Parallel Databases</i> (2021): 1-20.	<a href="https://link.springer.com/article/10.1007/s10619-021-07329-y">https://link.springer.com/article/10.1007/s10619-021-07329-y</a>
25	<b>K. Keerthi Deepika</b>	Srinivasarao, P., K. Peddakapu, M. R. Mohamed, K. Keerthi Deepika, and K. Sudhakar. "Simulation and experimental design of adaptive-based maximum power point tracking methods for photovoltaic systems." <i>Computers &amp; Electrical Engineering</i> 89 (2021): 106910.	<a href="https://doi.org/10.1016/j.compeleceng.2020.106910">https://doi.org/10.1016/j.compeleceng.2020.106910</a>
26	<b>K Srinivasa Naik</b>	Kethavathu, Srinivasa Naik, Aruna Singam, and Pachiyannan Muthusamy. "Compact symmetrical slot coupled linearly polarized two/four/eight element MIMO bowtie DRA for WLAN applications." <i>AEU-International Journal of Electronics and Communications</i> 135 (2021): 153729.	<a href="https://doi.org/10.1016/j.aeue.2021.153729">https://doi.org/10.1016/j.aeue.2021.153729</a>
27	<b>Dr.Sourav Roy</b>	Roy, Sourav, Ashim Kumar Biswas, Soumendu Ghosh, Ujjal Chakraborty, and Abhishek Sarkhel.	<a href="https://doi.org/10.1080/09205071.2021.188880">https://doi.org/10.1080/09205071.2021.188880</a>

		"Isolation improvement of dual-/quad-element textile MIMO antenna for 5G application." <i>Journal of Electromagnetic Waves and Applications</i> (2021): 1-17.	8
28	<b>Dr. S. V. Jagadeesh Chandra, B. Eswara Rao</b>	Ramana, CH VV, SV Jagadeesh Chandra, R. S. Dubey, and B. Eswara Rao. "Solution-based spin cast-processed O-shaped memory devices." <i>Journal of Materials Science: Materials in Electronics</i> 32, no. 2 (2021): 2258-2267.	DOI: <a href="https://doi.org/10.1007/s10854-020-04990-4">10.1007/s10854-020-04990-4</a>
29	<b>A Usharani</b>	Usharani, A., and D. Bhavana. "Deep convolution neural network based approach for multispectral images." <i>International Journal of System Assurance Engineering and Management</i> (2021): 1-10.	<a href="https://link.springer.com/article/10.1007/s13198-021-01133-8">https://link.springer.com/article/10.1007/s13198-021-01133-8</a>
30	<b>A. Sampath Dakshina murthy</b>	Sasank, V. V. S., Kranthi Kumar Singamaneni, A. Sampath Dakshina Murthy, and SK Hasane Ahammad. "Executing CNN-LSTM Algorithm for Recognizable Proof of Cervical Spondylosis Infection on Spinal Cord MRI Image: Machine Learning Image." In <i>Handbook of Research on Innovations and Applications of AI, IoT, and Cognitive Technologies</i> , pp. 468-484. IGI Global, 2021.	DOI: 10.4018/978-1-7998-6870-5.ch032
31	<b>Dr. K. Murali Krishna</b>	Babu, T. Ravi, C. Dharma Raj, V. Adinarayana, and K. Murali Krishna. "Estimation of Sparse Channel Using Bayesian Gaussian Mixture and CS-Aided Techniques for Pilot Contaminated Massive MIMO System." <i>Wireless Personal Communications</i> 117, no. 2 (2021): 1387-1398.	DOI: <a href="https://doi.org/10.1007/s11277-020-07927-6">10.1007/s11277-020-07927-6</a>
32	<b>Dr. Sourav Roy</b>	Narayana, D. Lakshmi, S. Aruna, Sourav Roy, and K. Srinivasa Naik. "Eight Element Low-Cost Microstrip MIMO Antenna for Wi-MAX and 5G Applications." <i>Wireless Personal Communications</i> (2021): 1-20.	<a href="https://link.springer.com/article/10.1007/s11277-021-08678-8">https://link.springer.com/article/10.1007/s11277-021-08678-8</a>
33	<b>Dr. S. V. Jagadeesh Chandra</b>	Venkataiah, Sunke, SV Jagadeesh Chandra, Uppala Chalapati, Ch VV Ramana, and Suda Uthanna. "Oxygen partial pressure influenced stoichiometry, structural, electrical, and optical properties of DC reactive sputtered hafnium oxide films." <i>Surface and Interface Analysis</i> 53, no. 2 (2021): 206-214.	<a href="https://doi.org/10.1002/sia.6902">https://doi.org/10.1002/sia.6902</a>
34	<b>Hemanta Kumar Sahu</b>	Sahu, Hemanta Kumar, Ashish Kumar Padhan, and Pravas Ranjan Sahu. "Smart Devices Performance With SSK-BPSK Modulation and Energy Harvesting in Smart Cities." <i>IEEE Communications Letters</i> 25, no. 2 (2020): 637-640.	DOI: <a href="https://doi.org/10.1109/LCOM.M.2020.3026737">10.1109/LCOM.M.2020.3026737</a>
35	<b>R. Umamaheswari</b>	Ramisetty, Uma Maheswari, and Sumanth Kumar Chennupati. "Performance Analysis of Multi User MIMO System With Successive Hybrid Information and Energy Transfer Beamformer." <i>Wireless Personal Communications</i> (2021): 1-19.	<a href="https://link.springer.com/article/10.1007/s11277-021-08450-y">https://link.springer.com/article/10.1007/s11277-021-08450-y</a>
36	<b>R. Umamaheswari</b>	Ramisetty, Uma Maheswari, Sumanth Kumar Chennupati, and Venkata Nagesh Kumar Gundavarapu. "Design of Training Sequences for Multi User—MIMO with Accurate Channel Estimation Considering Channel Reliability Under Perfect Channel State Information Using Cuckoo Optimization." <i>Journal of Electrical Engineering &amp; Technology</i> (2021): 1-14.	<a href="https://link.springer.com/article/10.1007/s42835-021-00778-6">https://link.springer.com/article/10.1007/s42835-021-00778-6</a>
37	<b>Hemanta Kumar</b>	Sahu, Hemanta Kumar. "Performance Analysis of	DOI: <a href="https://doi.org/10.1109/LCOM">10.1109/LCOM</a>

	<b>Sahu</b>	Energy Harvesting based Smart Grid Dynamic HAN with SSK Modulation." <i>IEEE Communications Letters</i> (2021).	<a href="https://doi.org/10.1109/ICC.2021.9565444">M.2021.3083966</a>
38	<b>Dr. T. V. Madhusudhana Rao</b>	Rao, P. Srinivasa, Pradeep Bheemavarapu, PS Latha Kalyampudi, and TV Madhusudhana Rao. "An Efficient Method for Coronavirus Detection Through X-rays using deep Neural Network." <i>Current Medical Imaging</i> (2021).	DOI: 10.2174/1573405617999210112193220
39	<b>K Sri Harsha Reddy</b>	Reddy, Sri Harsha K., Achuth Vasudevan, Prabhu Rajagopal, and Krishnan Balasubramaniam. "Scattering of Higher Order Mode Clusters (HOMC) from surface breaking notches in plates with application to higher temperature gradients." <i>NDT &amp; E International</i> 120 (2021): 102441.	<a href="https://doi.org/10.1016/j.ndteint.2021.102441">https://doi.org/10.1016/j.ndteint.2021.102441</a>
40	<b>N Dhanunjayarao Borra</b>	Dhanunjayarao, B. N., Usha Kiran Sanivada, N. V. Swamy Naidu, and Raul Fanguero. "Effect of graphite particulate on mechanical characterization of hybrid polymer composites." <i>Journal of Industrial Textiles</i> (2021): 15280837211010670.	<a href="https://doi.org/10.1177/15280837211010670">https://doi.org/10.1177/15280837211010670</a>
41	<b>Dr. G. Yoganjaneyulu</b>	Yoganjaneyulu, G., S. Vigneshwaran, R. Palanivel, Adel Alblawi, Mohammad Abdur Rasheed, and R. F. Laubscher. "Effect of Tool Rotational Speed on the Microstructure and Associated Mechanical Properties of Incrementally Formed Commercially Pure Titanium." <i>Journal of Materials Engineering and Performance</i> (2021): 1-9.	<a href="https://link.springer.com/article/10.1007/s11665-021-05900-3">https://link.springer.com/article/10.1007/s11665-021-05900-3</a>
42	<b>Dr. G. Yoganjaneyulu</b>	Seetharam, R., Pagidi Madhukar, G. Yoganjaneyulu, S. Kanmani Subbu, and M. J. Davidson. "Mathematical Models to Predict Flow Stress and Dynamically Recrystallized Grain Size of Deformed AA7150-5 wt% B4C Composite Fabricated Using Ultrasonic-Probe Assisted Stir Casting Process." <i>Metals and Materials International</i> (2021): 1-14.	<a href="https://link.springer.com/article/10.1007/s12540-021-00967-y">https://link.springer.com/article/10.1007/s12540-021-00967-y</a>
43	<b>Dr K S Raghu Ram</b>	Vasantharaj, A., Pacha Shoba Rani, Sirajul Huque, K. S. Raghuram, R. Ganeshkumar, and Sebahadin Nasir Shafi. "Automated Brain Imaging Diagnosis and Classification Model using Rat Swarm Optimization with Deep Learning based Capsule Network." <i>International Journal of Image and Graphics</i> (2021): 2240001.	<a href="https://doi.org/10.1142/S0219467822400010">https://doi.org/10.1142/S0219467822400010</a>