

2020 Publications (Scopus Index)

- 241, Tauseef A., Hisamuddin, Khalilullah A., Uddin I, Role of MgO nanoparticle in the suspension of *Meloidogyne incognita*, Infecting cowpea and improvement in plant growth and physiology, *Experimental Parasitology*, **2020**, 10.1016/j.exppara.2020.108045. Epub
- 240, Mandal, A., Ferrara, P., Khlyebnikov, Y., Cortesi, A., Spoto, F., Cross-program taint analysis for IoT systems, *Proceedings of the ACM Symposium on Applied Computing*, **2020**, 10.1145/3341105.3373924
- 239, V. G. V. Dutt, S. Akhil, N. Mishra, , Surface Passivation Strategies for Improving Photoluminescence and Stability of Cesium Lead Halide Perovskite Nanocrystals, *ChemNanoMat*, **2020**, 10.1002/cnma.202000495
- 238, Chandra, S., Priyanka, Classification of Static Signature Based on Distance Measure Using Feature Selection, *Lecture Notes in Electrical Engineering*, 2021, 10.1007/978-981-15-5341-7_53
- 237, Pradhan, A.K., False-Positive-Free and Geometric Robust Digital Image Watermarking Method Based on IWT-DCT-SVD, *Lecture Notes in Electrical Engineering*, 2021, 10.1007/978-981-15-5341-7_34
- 236, kolli, M., Dasari, S.N., Potluri, N.S., Ramprasad, A.V.S., Influence of rock dust reinforcement on mechanical properties of Al composite using friction stir processing, *Australian Journal of Mechanical Engineering*, **2020**, 10.1080/14484846.2020.1842299
- 235, Bhagath Singh, G.V.P., Subramaniam, K.V.L., Efficient production of alkali-activated geopolymers using low-calcium fly ash, *Indian Concrete Journal*, **2020**,
- 234, Kasilingam, D., Prabhakaran, S.P.S., Dinesh Kumar, R., Rajagopal, V., Santhosh Kumar, T., Soundararaj, A., Exploring the Growth of COVID-19 Cases using Exponential Modelling Across 42 Countries and Predicting Signs of Early Containment using Machine Learning, *Transboundary and Emerging Diseases*, **2020**, 10.1111/tbed.13764
- 233, Sankar, V., Cheeran, V., Ganesh, M.R., Sivakumar, B., Synthesis, Antibacterial and Anticancer Activity of 1,2-Substituted 2,3-Dihydro-1H-Benzo[4,5]imidazo[1,2-c][1,3,2]Diazaphosphol-1-Oxides, *Pharmaceutical Chemistry Journal*, **2020**, 10.1007/s11094-020-02282-z
- 232, Srivastava, A., Murugaiyan, J., Garcia, J.A.L., De Corte, D., Hoetzing, M., Eravci, M., Weise, C., Kumar, Y., Roesler, U., Hahn, M.W., Grossart, H.-P., Combined Methylome, Transcriptome and Proteome Analyses Document Rapid Acclimatization of a Bacterium to Environmental Changes, *Frontiers in Microbiology*, **2020**, 10.3389/fmicb.2020.544785
- 231, Chatterjee, D., Kamesh, A.V.S., Significance of relationship marketing in banks in terms of customer empowerment and satisfaction, *European Journal of Molecular and Clinical Medicine*, **2020**,
- 230, Muhammad, I., Mannathan, S., Sasidharan, M., $g-C_3N_4$ catalyst for aerobic hydroxylation of arylboronic acids to phenols, *Journal of the Chinese Chemical Society*, **2020**, 10.1002/jccs.202000141
- 229, Muthe, K.B., Vemuru, T.S.T., Sharma, K., Mohammad, N.S., Decentrant - An Ethereum, Proxy Re-Encryption and IPFS Based Decentralized Internet, 2020 11th International Conference on Computing,

Communication and Networking Technologies, ICCCNT **2020, 2020,**
10.1109/ICCCNT49239.2020.9225483

228, Bhatia, V., Tripathy, M.R., Ranjan, P., Deep learning for massive MIMO: Challenges and future prospects, Proceedings - 2020 IEEE 9th International Conference on Communication Systems and Network Technologies, CSNT **2020, 2020,** 10.1109/CSNT48778.2020.9115783

227, Sengar, S.S., Hariharan, U., Rajkumar, K., Multimodal Biometric Authentication System using Deep Learning Method, 2020 International Conference on Emerging Smart Computing and Informatics, ESCI **2020, 2020,** 10.1109/ESCI48226.2020.9167512

226, Prateek, Brecht in India: The poetics and politics of transcultural theatre, Brecht in India: The Poetics and Politics of Transcultural Theatre, **2020,** 10.4324/9781003030317

225, , Renewable biohydrogen production from lignocellulosic biomass using fermentation and integration of systems with other energy generation technologies, Science of the Total Environment, **2020,**

224, Sambasivam S, Chandu Muralee Gopi, Maram Pardha Saradhi, Hammad M. A, Venkatesha. N, and Aleksandr S Kamzin,, Investigation of Optical and Magnetic properties of Mn-doped tetragonal ZrO₂ nanocrystals, J. Solid State Chem, **2020,** 10.1016/j.jssc.2020.121872

223, Vinod Kumar, G. S. , Foaming Magnesium alloy and composite using MgCO₃ blowing agent, Metallurgical and Materials Transaction, **2020,**

222, Samadhan Kapse, Shazia, Umesh V Waghmare, Ranjit Thapa, Energy Parameter and Electronic Descriptor for Carbon Based Catalyst Predicted using QM/ML, Applied Catalysis B: Environmental, **2020,**

221, Dalapati, GK., Siddartha Ghosh, Ranjit Thapa, Patro LN, Charge Trapping Characteristics of Sputter-AIOx/ALD-Al₂O₃/Epitaxial-GaAs Based Nonvolatile Memory, Journal of Materials Science: Materials in Electronics, **2020,**

220, Sahane, D, Singh, S. Jadhav, M. Panigrahi B. B., Isothermal and Non-isothermal Sintering Characteristics of Mechanically Alloyed Nonequiatomic Fe₂CoCrMnNi High Entropy Alloy Powder , Powder Metallurgy , **2020,**

219, Jadhav, M. Sahane, D. Verma, A, Singh S, Thermal stability and thermal expansion behavior of FeCoCrNi₂Al high entropy alloy, Advanced Powder Technology, **2020,**

218, S. Mukherjee, S. Biswas, A. Chatterjee, B. K. Chakrabarti, The Ising universality class of kinetic exchange models of opinion dynamics, Physica A, **2020,**

217, S. Paula, J. Sultana, N. R. Saha, G. K. Dalapati, A. Karmakar, S. Chattopadhyay, Impact of seed layer annealing on the optoelectronic properties of double-step CBD grown n-ZnO nanowires/p-Si heterojunctions, Optik, **2020,** 10.1016/j.ijleo.2020.166141

216, Pranathi, T.Y.S.S., Dhuli, S., Aditya, V.M.V.S., Charisma, B. and Jayakrishna, K, A Hybrid Routing Protocol for Robust Wireless Sensor Networks, 12th International Conference on Computational Intelligence and Communication Networks (CICN), **2020,** 10.1109/CICN49253.2020.9242627

- 215, Aditya, V. M. V. S., Sateeshkrishna Dhuli, P. L. Sashrika, K. K. Shivani, and T. Jayanth, Closeness Centrality Based Cluster Head Selection Algorithm for Large Scale WSNs., 12th International Conference on Computational Intelligence and Communication Networks (CICN), **2020**, 10.1109/CICN49253.2020.9242639
- 214, Dhuli, Sateeshkrishna, Y. N. Singh, and Priya Ranjan, Effect of nearest neighbors on convergence rate of periodic gossip algorithms in WSNs, 9th International Conference on Communication Systems and Network Technologies (CSNT), **2020**, 10.1109/CSNT48778.2020.9115739
- 213, , Some non-classical universal quadratic forms of small size, JP Journal of Algebra, Number Theory and Applications, **2020**,
- 212, Puranjan Mishraa, P. Zularisam Ab Wahida, Ahasanul Karima, Kamal Kishore Pant,, Pooja Ghosh, Deepak Kumar, Lakhveer Singh, Chronological perspective on fermentative-hydrogen from hypothesis in early 19th century to recent developments: A review, Biomass Conversion and Biorefinery Journal, **2020**,
- 211, B. Ramesh Kumar, Mathimani. T, Sudhakar M.P. Rajendran K. Nizami, A-S, Brindadevi, K. Pugazhendhi A., A state of the review on the cultivation of algae for energy and other valuable products: Application, challenges and opportunities, Renewable and Sustainable Energy Reviews, **2020**, 10.1016/j.rser.2020.110649
- 210, Tripathi A., Thapa R., Promoting reactivity of graphene based catalysts to achieve LH mechanism for CO oxidation, Catalysis Today, **2020**,
- 209, Aditya Japa, Manoj Kumar Majumder, Subhendu K. Sahoo, Ramesh Vaddi, B. K. Kaushik, Hardware Security exploiting post-CMOS Devices: Fundamental device characteristics, State-of-the-Art Countermeasures, Challenges and Roadmap, IEEE Circuits and Systems Magazine, **2020**,
- 208, Biswas, K., Biswas, S., Sen P., Block size dependence of coarse graining in discrete opinion dynamics model: Application to the US presidential elections, Physica A, **2020**, 10.1016/j.physa.2020.125639
- 207, Diwakar Tripathi, Venkatanaresbhabu Kuppilli and Damodar Reddy Edla, Evolutionary Extreme Learning Machine with Novel Activation Function for Credit Scoring, Engineering Application of Artificial Intelligence, **2020**, 10.1016/j.engappai.2020.103980
- 206, Motapothula, M., Observation of interacting polaronic gas behavior in Ta-doped TiO₂ thin films via terahertz time-domain spectroscopy, Applied Physics Letters, **2020**,
- 205, Mandal P., Sundaresan A, Effect of Non-magnetic Ion Substitution on the Multiferroic Properties of BiFeO₃, Journal of electronic Materials, **2020**,
- 204, Lakshmi, S. Ganguly, S, Coordinated Operational Optimization Approach for PV Inverters and BESSs to Minimize Energy Loss of Distribution Networks, IEEE Systems, **2020**,
- 203, Dash, JK. Mukhopadhyay, S. Gupta, RD. Khandelwal ,N., Content-based image retrieval system for HRCT lung images: Assisting radiologists in self-learning and diagnosis of Interstitial Lung Diseases, Multimedia Tools and Applications, **2020**,

- 202, Liao, H. hen, M. Sun, J. Haseena, S. Ravva, M K. Xiao, C. Zhang, L. Wang, Y. Zhengke Lia, Yue W., Novel and Asymmetric S, N-Heterocycles with Fused Six-membered Rings for Organic Field Effect Transistors Application, JMCC, **2020**, 10.1039/D0TC04370B
- 201, Das, M.T.Kumar, S. S. Ghosh, P. Shah, G. Maly, S. K. Bajar, S. Thakure, IS. Singh, L., Remediation strategies for mitigation of phthalate pollution: Challenges and future perspectives, Journal of Hazardous Materials, **2020**, 10.1016/j.jhazmat.2020.124496
- 200, Babu, L. Tuapakula S, 4-channel DWDM demultiplexer on Silicon Photonic crystal slab, SADHANA , **2020**,
- 199, Subrata Karmakar, Alka Garg, Mrinmay Sahu, Anjana Tripathi, Goutam Mukherjee, Ranjit Thapa, and D. Behera, Pressure-Induced Octahedral Tilting Distortion and Structural Phase Transition in Columbite Structured NiNb₂O₆, Journal of Applied Physics, **2020**, 10.1063/5.0026096
- 198, AvishekDey, Gauthaman Chandra bose, Lois A.O.Dampthey, E.S.Erakulan, Ranjit Thapa, Siarhei Zhuk, Goutam Kumar Dalapati, Seeram Ramakrishna, Nicholas St. J.Braithwaite, Amir Shirzadi, Satheesh Krishnamurthy, Cu₂O/CuO heterojunction catalysts through atmospheric pressure plasma induced defect passivation, , **2020**, 10.1016/j.apsusc.2020.148571
- 197, Tamar Szoke, Nitsan Albocher, Sutharsan Govindarajan, Anat Nussbaum-Shochat, Orna Amster-Choder, Tyrosine phosphorylation-dependent localization of a novel polar protein that controls activity of a sugar regulator by sequestration, Proceedings of National Academy of Sciences, **2020**,
- 196, Sudarsanam, P., Singh L., Advanced Heterogeneous Catalysts: Applications at the Single-Atom Scale, ACS symposium Series, **2020**,
- 195, Sudarsanam, P., Singh L., Advanced Heterogeneous Catalysts: Applications at the Nano-Scale, ACS symposium Series, **2020**,
- 194, S. B. Rashmi, Siva S. Yellampalli & H. K. Shreedhar, 60 GHz common gate single stage current reuse cascode LNA topology for high data rate applications, Journal of Electronic Materials , **2020**, 10.1007/s11664-020-08494-z
- 193, R, Shwetharani; Kapse, Samadhan ; Thapa , Ranjit ; D H, Nagaraju; Balakrishna, R. Geetha, Dendritic Ferroselite (FeSe₂) with 2D Carbon Based Nanosheets of rGO and g-C₃N₄ as Efficient Catalysts for Electrochemical Hydrogen Evolution, ACS Applied Energy Materials, **2020**, 10.1021/acsaem.0c02619
- 192, A. Mangababu, Ch. Sianglam, B. Chandu, DK Avasthi, S. Venugopal Rao, M. Motapothula and S. V. S. Nageswara Rao, Effects of Initial Grain Size on the formation of HfO₂ Nanostructures by Femtosecond Laser Ablation in Liquids, Journal of Electronic Materials, **2020**,
- 191, Prakash Jadhav, Vibration technique for monitoring termite induced degradation in trees, Vibroengineering PROCEDIA, **2020**, 10.21595/vp.2020.21717
- 190, Prakash Jadhav and Febin Cyriac, Structural damage assessment using a transmissibility based quantitative parameter, Vibroengineering PROCEDIA, **2020**, 10.21595/vp.2020.21716

- 189, Suman Avani, Shaila S G and A Vadivel,, Geometrical Features of Lips using the Properties of Parabola for Recognizing Facial Expression,, Cognitive Neurodynamics, Springer (accepted), **2020**, 10.1007/s11571-020-09638-x.
- 188, Priyanka, K Jyothsna Devi and Naushad Varish,, Muzzle Pattern based Cattle Identification Using GAN, 10th International Conference on Soft Computing for Problem Solving - SocProS **2020, 2020**,
- 187, Shubham, Motahar Reza, Sanjoy Choudhury, Jatindra Dash, Diptendu Sinha Roy,, An AI-based Real-Time Roadway-Environment Perception for Autonomous Driving (Accepted), IEEE INTERNATIONAL CONFERENCE ON CONSUMER ELECTRONICS - TAIWAN ICCE-TW, **2020**, 10.1109/ICCE-Taiwan49838.2020.9258145
- 186, Vardhan, Harsha Satya and Dash, Jatindra Kumar and Mohanty, Sachinandan,, Deep Convolutional Neural Networks for Classification of Interstitial Lung Disease , International Conference on Innovative Computing & Communications (ICICC) **2020, 2020**, 10.2139/ssrn.3568854
- 185, Murali Krishna Enduri, I. Vinod Reddy, and Shivakumar Jolad, Evolution of Physics Sub-fields, 5th International Conference on Complexity, Future Information Systems, and Risk (COMPLEXIS), **2020**,
- 184, Murthy, Kandala Sree Rama, and V. M. Manikandan., A Block-wise Histogram Shifting based Reversible Data Hiding Scheme with Overflow Handling, 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT), **2020**, 10.1109/ICCCNT49239.2020.9225552
- 183, Nikhila Korivi, V. M. Manikandan,, Reversible Data Hiding in Encrypted Image using Checkerboard Pattern based Pixel Inversion, 5th International Conference on Computing, Communication and Security (ICCCS-2020), **2020**, 10.1109/ICCCS49678.2020.9277147
- 182, Amit Kr Mandal, Yuliy Khlyebnikov, Pietro Ferrara, Agostino Cortesi, and Fausto Spoto, , Taint Propagation Across IoT Ecosystem Interfaces , 35th ACM/SIGAPP Symposium on Applied Computing, **2020**,
- 181, Pranaya Pournamashi Patro and Rajiv Senapati, , Advanced Binary-Matrix based Frequent Pattern Mining Algorithm, International Conference on Machine Learning, Internet of Things and Big Data, Springer,, **2020**,
- 180, Rathnamma Gopisetty, Thirumalaisamy Ragunathan, C Shoba Bindu, IMPROVING PERFORMANCE OF THE DISTRIBUTED FILE SYSTEM USING SPECULATIVE READ ALGORITHM AND SUPPORT-BASED REPLACEMENT TECHNIQUE , International Journal of Advanced Research in Engineering and Technology (IJARET), **2020**, 10.34218/IJARET.11.9.2020.061
- 179, Sriramulu Bojjagani, B. Ramachandra Reddy, Mulagala Sandhya, Dinesh Reddy Vemula, CybSecMLC: A Comparative Analysis on Cyber Security Intrusion Detection Using Machine Learning Classifiers, Machine Learning and Metaheuristics Algorithms, and Applications (SoMMA'20), **2020**,
- 178, Gopisetty, R., Ragunathan, T., Bindu, C.S., A novel speculation-based read algorithm with rank based replacement for improving performance of the distributed file system, International Journal of Advanced Trends in Computer Science and Engineering, **2020**,

- 177, Ashu, A., Hussain, M.W., Sinha Roy, D., Reddy, H.K., Intelligent data compression policy for hadoop performance optimization, *Advances in Intelligent Systems and Computing*, **2020**, 10.1007/978-3-030-49345-5_9
- 176, Pöppe J, Bote K, Ramesh A, Murugaiyan J, Kuroпка B, Kühl M, Johnston P, Roesler U, Makarova O, Selection for resistance to a glyphosate-containing herbicide in *Salmonella enterica* does not result in a sustained activation of the tolerance response or increased cross-tolerance and cross-resistance to clinically important antibiotics, *Applied and Environmental Microbiology*, **2020**, 10.1128/AEM.01204-20
- 175, Dash, J.K., Improvement of p-CuO/n-Si heterojunction solar cells performance through nitrogen plasma treatment, *JOURNAL OF ELECTRONIC MATERIALS* , **2020**, 10.1007/s11664-020-08593-x
- 174, Zaied, B.K., Rashid, M., Nasrullah, M. et al., Prediction and optimization of biogas production from POME co-digestion in solar bioreactor using artificial neural network coupled with particle swarm optimization (ANN-PSO), *Biomass Conv. Bioref*, **2020**, 10.1007/s13399-020-01057-6
- 173, Bulkan, G.; Ferreira, J.A.; Rajendran, K.; Taherzadeh, M.J. , Techno-Economic Analysis of Bioethanol Plant By-Product Valorization: Exploring Market Opportunities with Protein-Rich Fungal Biomass Production, *Fermentation* , **2020**, 10.3390/fermentation6040099
- 172, Indrajit M. Patil, Samadhan Kapse, Haridas Parse, Ranjit Thapa, Gunther Andersson, Bhalchandra Kakade, 2D/3D Heterostructure of h-BN/reduced Graphite Oxide as a Remarkable Electrode Material for Supercapacitor, *Journal of Power Sources*, **2020**, 10.1016/j.jpowsour.2020.229092
- 171, Mullapudi Jyothirmai, Structure-property-performance inter-relationship of quaternary chalcogenides $\text{CuZn}_2\text{Ga}(\text{S}/\text{Se})_4$: A first principles study, *JOURNAL OF ELECTRONIC MATERIALS* , **2020**, 10.1007/s11664-020-08567-z
- 170, Hassan Algadia,b, Chandreswar Mahatac, Sungjun Kimd, Goutam Kumar Dalapatie, Improvement on Photoresponse Properties of Self-Powered ITO/InP Schottky Junction Photodetector by Interfacial ZnO Passivation, *JOURNAL OF ELECTRONIC MATERIALS* , **2020**, 10.1007/s11664-020-08565-1
- 169, Sheik Haseena and Mahesh Kumar Ravva, Alkoxy Side-chains Effect on Conjugated Polymer and Non-fullerene acceptor Interfaces in Organic Solar Cells, *JOURNAL OF ELECTRONIC MATERIALS* , **2020**, 10.1007/s11664-020-08567-z
- 168, Raviteja, K.V.N.S. and B. Munwar Basha, Characterization of Variability of Unit Weight and Shear Parameters of Municipal Solid Waste, *Journal of Hazardous, Toxic and Radioactive Waste*, **2020**, 10.1061/978078447
- 167, Bamola, Priyanka; Singh, Bharti; Bhoumik, Aranya; Sharma, Mohit; Dwivedi, Charu; Singh, Mandeep; Dalapati, Goutam Kumar; Sharma, Himani, Mixed-Phase TiO_2 Nanotube-Nanorod Hybrid Arrays for Memory Based Resistive Switching Devices, *ACS Applied Nano Materials*, **2020**, 10.1021/acsnm.0c01648
- 166, Y. Yamaguchi, S. Biswas, T. Hatano, L. Goehring, Failure processes of cemented granular materials, *Phys. Rev. E*, **2020**, 10.1103/PhysRevE.102.052903

- 165, Suman Avani, Shaila S G and A Vadivel, Interval Graph of Facial Regions with Common Intersection Salient Points for Identifying and Classifying Facial Expression, Multimedia Tools and Applications, **2020**, 10.1007/s11042-020-09806-5
- 164, Pabolu Adithya, Venkat Nori and Panchagnula Jayaprakash Sharma Design, Development and Manufacturing of Cost Effective Face Shields for COVID-19, IST International Conference on Energy, Materials Sciences & Mechanical Engineering – 2020 (EMSME-2020), **2020**,
- 163, Panchagnula Kishore Kumar and Panchagnula Jayaprakash Sharma, A Complete Study on Various Area Filling Strategies Used in Weld-Deposition Based Additive Manufacturing, International Conference on Future Trends in Materials and Mechanical Engineering (ICFTMME-2020), **2020**,
- 162, Panchagnula Kishore Kumar and Panchagnula Jayaprakash Sharma, Effect of cutting environments on drilling induced damage in GFRP nanocomposites, The American Society of Mechanical Engineers - International Mechanical Engineering Congress & Exposition, **2020**,
- 161, S. K. Mishra, S. Mishra, A. Alsayat, N. Z. Jhanjhi, M. Humayun, A. K. Luhach, K. S. Sahoo, Energy-Aware Task Allocation for Multi-Cloud Networks, IEEE ACCESS, **2020**, 10.1109/ACCESS.2020.3026875
- 160, Akhil, S., Dutt, V..G.V. and Mishra, N., Completely Amine-free Open Atmospheric Synthesis of High-Quality Cesium Lead Bromide (CsPbBr₃) Perovskite Nanocrystals, Chemistry-A European Journal, **2020**, 10.1002/chem.202003891
- 159, Benteng Wu, Richen Lin, Richard O'Shea, Chen Deng, Karthik Rajendran, Jerry D. Murphy,, Production of advanced fuels through integration of biological, thermo-chemical and power to gas technologies in a circular cascading bio-based system, Renewable and Sustainable Energy Reviews, **2020**, 10.1016/j.rser.2020.110371
- 158, Amit Kr Mandal, Soumya Jyothi Biswas, Parallel Minority Game and it's application in movement optimization during an epidemic, Physica A, **2020**, 10.1016/j.physa.2020.125271
- 157, Richen Lin, Chen Deng, Karthik Rajendran, Archishman Bose, Xihui Kang, Jerry D Murphy, Competing reactions limit production of sugars in hydrothermal hydrolysis of grass silage: an assessment of the effect of temperature on sugar production and parasitic energy demand, Frontiers in Energy Research, section Bioenergy and Biofuels, **2020**, 10.3389/fenrg.2020.575523
- 156, Diwakar Tripathi, Damodar Reddy Edla, Venkatanareshbabu Kuppili, Ramesh Dharavath, Binary BAT algorithm and RBFN based hybrid credit scoring model, Multimedia Tools and Applications, **2020**, 10.1007/s11042-020-09538-6
- 155, Alkatheiri, M.S., Sangi, A.R., Anamalamudi, S., Physical unclonable function (PUF)-based security in internet of things (IoT): Key challenges and solutions, Handbook of Computer Networks and Cyber Security: Principles and Paradigms, **2020**, 10.1007/978-3-030-22277-2_18
- 154, Hota, T.K., , Effect of dispersion and viscosity profiles, on miscible displacements in porous media, 1st Online International Conference on Recent Advances in Computational and Experimental Mechanics, **2020**,
- 153, Deepak S Gavali, Ranjit Thapa, Synergetic effect of localized and delocalized π electron on Li storage properties of Si/C heterostructures, Carbon, **2020**, 10.1016/j.carbon.2020.08.076

- 152, Rathod, V., Katragadda, R., Ghanekar, S., Raj, S., Kollipara, P., Anitha Rani, I., Vadivel, A., Smart Surveillance and Real-Time Human Action Recognition Using OpenPose, Lecture Notes in Electrical Engineering, **2020**, 10.1007/978-981-15-1420-3_53
- 151, Reddy, T.V.R., Mehta, S.K., Ananthavel, A., Ali, S., Annamalai, V., Rao, D.N., Seasonal characteristics of sea breeze and thermal internal boundary layer over Indian east coast region, Meteorology and Atmospheric Physics, **2020**, 10.1007/s00703-020-00746-1
- 150, Yedla, S.K., Manikandan, V.M., Panchami, V., Real-Time Scene Change Detection with Object Detection for Automated Stock Verification, ICDCS 2020 - 2020 5th International Conference on Devices, Circuits and Systems, **2020**, 10.1109/ICDCS48716.2020.243571
- 149, Dash, J.K., Patro, M., Majhi, S., Girish, G., Nancy Anurag, P., Local Texture Features for Content-Based Image Retrieval of Interstitial Lung Disease Patterns on HRCT Lung Images, Advances in Intelligent Systems and Computing, **2020**, 10.1007/978-981-15-1286-5_68
- 148, Anitha Rani, I., Vadivel, A., Human Activity Recognition on Multivariate Time Series Data: A Technical Review, Lecture Notes in Electrical Engineering, **2020**, 10.1007/978-981-15-1420-3_37
- 147, Rao, C.D., Enteroviruses in gastrointestinal diseases, Reviews in Medical Virology, **2020**, 10.1002/rmv.2148
- 146, Hegde, V., Yellampalli, S.S., Ravikumar, H.M., Correction to: Simulation, mathematical modeling, fabrication and experimental analysis of piezoelectric acoustic sensor for energy harvesting applications (Microsystem Technologies, (2020), 26, 5, (1613-1623), 10.1007/s00542-019-04702-x), Microsystem Technologies, **2020**, 10.1007/s00542-019-04740-5
- 145, Abhinav, A., Manikandan, V.M., Bini, A.A., An Improved Reversible Data Hiding on Encrypted Images by Selective Pixel Flipping Technique, ICDCS 2020 - 2020 5th International Conference on Devices, Circuits and Systems, **2020**, 10.1109/ICDCS48716.2020.243602
- 144, Manikandan, V.M., Renjith, P., An Efficient Overflow Handling Technique for Histogram Shifting based Reversible Data Hiding, 2020 International Conference on Innovative Trends in Information Technology, ICITIIT **2020**, **2020**, 10.1109/ICITIIT49094.2020.9071553
- 143, Bopche, G.S., Rai, G.N., Brabin, D.R.D., Mehtre, B.M., A Proximity-Based Measure for Quantifying the Risk of Vulnerabilities, Communications in Computer and Information Science, **2020**, 10.1007/978-981-15-4825-3_4
- 142, Naga Sudheer, B., Bhadr, B.R., Divya Naga Paavani, T., Narayana, V.L., A comparative study on automated testing tools, Journal of Advanced Research in Dynamical and Control Systems, **2020**, 10.5373/JARDCS/V12I7/20201998
- 141, Pandey., Ghanshyam, Dynamics of Agricultural Growth and Diversification in Eastern India, Journal of Agribusiness in Developing and Emerging Economies, **2020**,
- 140, Kishore Kumar, Panchagnula, and Panchagnula Jayaprakash Sharma., Influence of Various Tool Path Patterns on Hardness Used in Weld Deposition-Based Additive Manufacturing, Advances in Additive Manufacturing and Joining, **2020**, 10.1007/978-981-32-9433-2_5

139, Pathak, P, Alternative Energy Resources: The Way to a Sustainable Modern Society, The Handbook of Environmental Chemistry, **2020**,

138, Sabarathinam Shanmugam, Anjana Hari, Deepak Kumar, Karthik Rajendran, Thangavel Mathimani, A.E. Atabani, Kathirvel Brindhadevi, Arivalagan Pugazhendhi, Recent developments and strategies in genome engineering and integrated fermentation approaches for biobutanol production from microalgae, Fuel , **2020**, 10.1016/j.fuel.2020.119052

137, Geetanjali Yadav, Sabarathinam Shanmugam, Ramachandran Sivaramakrishnan, Deepak Kumar, Thangavel Mathimani, Kathirvel Brindhadevi, Arivalagan Pugazhendhi, Karthik Rajendran, Mechanism and challenges behind algae as a wastewater treatment choice for bioenergy production and beyond, Fuel , **2020**, 10.1016/j.fuel.2020.119093

136, Sheik Haseena and Mahesh Kumar Ravva, Insights into the Ground-State Charge Transfer in Conjugated Polymer Donor–Acceptor Complexes, JOURNAL OF ELECTRONIC MATERIALS , **2020**, 10.1007/s11664-020-08430-1

135, Maiyelvaganan, K.R., Ravva, M.K., Prakash, M. , Benchmark studies on protonated benzene (BZH⁺) and water (W_n, n = 1–6) clusters: a comparison of hybrid DFT with MP2/CBS and CCSD(T)/CBS methods, Theor Chem Acc, **2020**, 10.1007/s00214-020-02660-6

134, Nasrallah, I., Ravva, M. K., Broch, K., Novak, J., Armitage, J., Schweicher, G., Sadhanala, A., Anthony, J. E., Bredas, J.-L., Sirringhaus, A Novel Mitigation Mechanism for Photo-Induced Trapping in an Anthradithiophene Derivative Using Additives, Adv. Electron. Mater., **2020**, 10.1002/aelm.202000250

133, Chokshi, Kaumeel, Imran Pancha, Khanjan Trivedi, Rahul Kumar Maurya, Arup Ghosh, and Sandhya Mishra, Physiological responses of the green microalga *Acutodesmus dimorphus* to temperature induced oxidative stress conditions, Physiologia Plantarum, **2020**, 10.1111/ppl.13193

132, V. M. Manikandan, V. Masilamani, A novel image scaling based reversible watermarking scheme for secure medical image transmission, ISA Transactions, **2020**, 10.1016/j.isatra.2020.08.019

131, Lakhveer Singh and Durga Madhab Mahapatra, Adapting 2D nanomaterials for Advanced Applications , , **2020**, 10.1021/bk-2020-1353

130, Sankar, V., Kathiresan, M., Sivakumar, B., Mannathan, S, Zinc-Catalyzed N-Alkylation of Aromatic Amines with Alcohols: A Ligand Free Approach, Advanced Synthesis & Catalysis, **2020**, 10.1002/adsc.202000499

129, Pranab Mandal and A Sunderesan, Dielectric Relaxation Mechanism in the High-pressure Synthesized BiCr_{0.5}Mn_{0.5}O₃, JOURNAL OF ELECTRONIC MATERIALS , **2020**, 10.1007/s11664-020-08408-z

128, K Hemant Kumar Reddy, Ashish K Luhach, Buddhadeb Pradhan, Jatindra Kumar Dash, Diptendu Sinha Roy, A Genetic Algorithm for Energy Efficient Fog Layer Resource Management in Context-Aware Smart Cities, Sustainable Cities and Society, **2020**, 10.1016/j.scs.2020.102428

127, Nilanjon Naskar, Martin F. Schneidereit, Florian Huber, Sabyasachi Chakraborty, Lothar Veith, Markus Mezger, Lutz Kirste, Theo Fuchs, Thomas Diemant, Tanja Weil, R. Jürgen Behm, Klaus Thonke

and Ferdinand Scholz , Impact of Surface Chemistry and Doping Concentrations on Biofunctionalization of GaN/Ga–In–N Quantum Wells, Sensors , **2020**, 10.3390/s20154179

126, Soumyajyoti Biswas, David F. Castellanos and Michael Zaiser, Prediction of creep failure time using machine learning, Scientific Reports, **2020**,

125, Anuj Deshpande, Sibendu Samanta, Sutharsan Govindarajan, Ritwik Kumar Layek, A Multi-Bit Boolean Model for Chemotactic Drift of Escherichia coli , IET Systems Biology, **2020**, 10.1049/iet-syb.2020.0060

124, Malvika Satish, Sharon Santhosh, Apurv Yadav, Sujith Kalluri, Asha Anish Madhavan, Optimization and Thermal Analysis of Fe₂O₃ Nanostructure Embedded Myristic Acid - Lauric Acid Eutectic as Nano-enhanced Phase Change Material, JOURNAL OF ELECTRONIC MATERIALS , **2020**, 10.1007/s11664-020-08366-6

123, Tousif Khan Nizami and Arghya Chakravarty, Laguerre Neural Network Driven Adaptive Control of DC-DC Step Down Converter, IFAC-PapersOnLine, Elsevier, **2020**,

122, Tousif Khan Nizami and Arghya Chakravarty, Neural Network Integrated Adaptive Backstepping Control of DC-DC Boost Converter, IFAC-PapersOnLine, Elsevier, **2020**, 10.1016/j.jileo.2017.11.040

121, Susan, S.S., Gupta, K.A., Yellampalli, S.S., Analysis of a Transmitter System for IEEE 802.15.4a UWB Standard, 2nd International Conference on Innovative Mechanisms for Industry Applications, ICIMIA 2020 - Conference Proceedings, **2020**, 10.1109/ICIMIA48430.2020.9074963

120, Japa Aditya, Manoj Kumar Majumder, Subhendu K. Sahoo, and Ramesh Vaddi, A Low Area Overhead DPA Countermeasure Exploiting Tunnel Transistor based Random Number Generator, Journal of IET Circuits, Device and Systems, **2020**, 10.1049/iet-cds.2019.0504

119, Japa Aditya, Manoj Kumar Majumder, Subhendu K. Sahoo, and Ramesh Vaddi, Tunnel FET Ambipolarity based Energy Efficient and Robust True Random Number Generator against Reverse Engineering Attacks, Journal of IET Circuits, Device and Systems, **2020**, 10.1002/cta.2731

118, Kannan, V, Existence of Compositional Square-Roots of Functions, Springer Proceedings in Mathematics and Statistics, **2020**, 10.1007/978-981-15-0422-8_10

117, Sudha Vani, Usha Rani, and Ramesh Vaddi, A 128Kb SRAM Design with Capacitor-Based Offset Compensation and Current Mirror based Read Assist Circuits at Low VDD, CSIR Journal of Scientific and Industrial Research, **2020**,

116, Mehta, Ranjana, Saha, Joydip, Sengupta, Indranath, Numerical Semigroups generated by Arithmetic Sequences, Journal of Algebra and Its Applications, **2020**, 10.1142/S0219498821501620

115, Chabhadiya, K., Srivastava, R.R., Pathak, P., Growth projections against set-target of renewable energy and resultant impact on emissions reduction in India, Environmental Engg. Res., **2020**, 10.4491/eer.2020.083

114, Mishra, P., Wahid, Z.A., Zaid, R.M. Singh, L., et al, Kinetics and statistical optimization study of bio-hydrogen production using the immobilized photo-bacterium, Biomass Conv. Bioref, **2020**, 10.1007/s13399-020-00835-6

- 113, Sriramulu Bojjagani, D.R. DenslinBrabin, P.V.Venkateswara Rao, PhishPreventer: A Secure Authentication Protocol for Prevention of Phishing Attacks in Mobile Environment with Formal Verification, *Procedia Computer Science*, **2020**, 10.1016/j.procs.2020.04.119
- 112, Luo, Yige, Liping Yao, Wen Gu, Chengyi Xiao, Hailiang Liao, Mahesh Kumar Ravva, Yanfei Wang,, Effect of Halogenated Substituent on the Properties of Aza-Octacenes, *Organic Electronics*, **2020**, 10.1016/j.orgel.2020.105895
- 111, Siarhei Zhuk, Terence Kin Shun Wong, Miloš Petrović, Emmanuel Kymakis, Shreyash Sudhakar Hadke, Stener Lie, Lydia Helena Wong, Prashant Sonar, Avishek Dey, Satheesh Krishnamurthy, Goutam Kumar Dalapati, Solution Processed Pure Sulfide CZCTS Solar Cells with Efficiency 10.8% using Ultra-thin CuO Intermediate Layer, *Solar RRL*, **2020**, 10.1002/solr.202000293
- 110, Patro.LN.,, Role of Mechanical Milling on the Synthesis and Ionic Transport Properties of Fast Fluoride Ion Conducting Materials, *Journal of Solid State Electrochemistry*, **2020**, 10.1007/s10008-020-04769-x
- 109, Kumar, Shailendra, Vinayak Kulkarni, and Satya Pramod Jammy, Aerothermodynamic Assessment of Spiked Configuration For Drag Reduction at Hypersonic Speeds, *Journal of Aerospace Engineering*, **2020**, 10.1061/(ASCE)AS.1943-5525.0001180
- 108, Deepak Davis, Sheela Singh, R.P.S Chakradhar, and Meenu Srivastava,, Tribo-Mechanical Properties of HVOF Sprayed NiMoAl-Cr 2 AIC Composite Coatings, *Journal of Thermal Spray Technology*,, **2020**, 10.1007/s11666-020-01069-8
- 107, Panchagnula, Kishore Kumar, and Jayaprakash Sharma Panchagnula, Fabrication of Hoop-Wound Glass Fiber Reinforced Plastic Cylindrical Shells Using Filament Winding Machine, *Materials Today: Proceedings*, **2020**, 10.1016/j.matpr.2020.02.349
- 106, Pandey, Om Jee, Ved Gautam, Saket Jha, Mahendra K. Shukla, and Rajesh M. Hegde, Time Synchronized Node Localization Using Optimal H-Node Allocation in a Small World WSN, *IEEE Communications Letters*, **2020**, 10.1109/LCOMM.2020.3008086
- 105, Mahendra K. Shukla, Ha H. Nguyen, and Om Jee Pandey, Multiuser Full-Duplex IoT Networks with Wireless-Powered Relaying: Performance Analysis and Energy Efficiency Optimization, *IEEE Transactions on Green Communications and Networking*, **2020**, 10.1504/IJCND.2019.098870
- 104, Sudip Mukherjee, Soumyajyoti Biswas, and Parongama Sen, Long route to consensus: Two stage coarsening in binary choice voting model, *Phys. Rev. E*, **2020**, 10.1103/PhysRevE.102.012316
- 103, Subash, Sruthy, Shintaro Yasui, Sou Yasuhara, L.N. Patro, and K. Kamala Bharathi, Evaluation of Band Edge Parameters, Li Ion Dynamics and Excellent Electrochemical Properties of Li₄Ti₅O₁₂ Anode Thin Films, *Electrochimica Acta.*, **2020**, 10.1016/j.electacta.2020.136741
- 102, Ibrahim, M.; Mannathan, S.; Sasidharan, M, Quaternary Ammonium Hydroxide Functionalized g-C₃N₄ Catalyst for Aerobic Hydroxylation of Aryl boronic acids to Phenols, *J. Chin. Chem. Soc.*, **2020**, 10.1002/jccs.202000141

- 101, Soumyajyoti Biswas and Bikas K. Chakrabarti, Flory-like statistics of fracture in the fiber bundle model as obtained via Kolmogorov dispersion for turbulence: A conjecture, *Phys. Rev. E*, **2020**, 10.1103/PhysRevE.102.012113
- 100, V. Kannan and Pabitra Narayan Mandal, Which orbit types force only finitely many orbit types?, *Journal of Difference Equations and Applications*, **2020**, 10.1080/10236198.2020.1784152
- 99, Hamid Ebrahimi Orimi, Sivakumar Narayanswamy, Christos Boutopoulos, Hybrid analytical/numerical modeling of nanosecond laser-induced micro-jets generated by liquid confining devices, *Journal of Fluids and Structures*, **2020**,
- 98, V. Bevara & P. K. Sanki, A New Fast & Efficient 2-D Median Filter Architecture, *Sadhana*, **2020**, 10.1007/s12046-020-01431-0
- 97, Sachi kumari, Salla Gangi Reddy, Vijay Kumar, R. P. Singh, Tunable ultraslow light propagation In Ruby, *Optics Communications*, **2020**, 10.1016/j.optcom.2020.125913
- 96, Prem Kumar, K., Rangunathan, T., Vasumathi, D, Krishna Prasad, P., An Efficient Load Balancing Technique based on Cuckoo Search and Firefly Algorithm in Cloud, *International Journal of Intelligent Engineering and Systems*, **2020**, 10.22266/IJIES2020.0630.38
- 95, R. Shashidhara, Sriramulu Bojjagani, Anup Kumar Maurya, Saru Kumari, Hu Xiong, A Robust user authentication protocol with privacy-preserving for roaming service in mobility environments, *Peer-to-Peer Networking and Applications (PPNA)*, **2020**, 10.1007/s12083-020-00929-y
- 94, Deepak Davis, M. Gobinath, Bharat B. Panigrahi, Yuvaraj Sivalingam, Sheela Singh, Tribological behavior of NiMoAl based self lubricating composites, *ACS Omega*, **2020**, 10.1021/acsomega.0c01409
- 93, Mukhopadhyay, S., Ramakrishna, S., Kumar, A. Dalapati, G K, A Numerical Fitting-Based Compact Model: An Effective Way to Extract Solar Cell Parameters, *JOURNAL OF ELECTRONIC MATERIALS* , **2020**, 10.1007/s11664-020-08286-5
- 92, Kunchanapalli Ramya and Sabyasachi Mukhopadhyay, Molecule-Electrode Electronic Coupling Modulates Optoelectronics of (Bio)Molecular Junctions, *JOURNAL OF ELECTRONIC MATERIALS* , **2020**, 10.1007/s11664-020-08263-y
- 91, Puspendu Guha, Bishnupad Mohanty, Ranjit Thapa, R Kadam, P. Satyam, Bikash Kumar Jena, Defects Engineered MoO₂ Nanostructures as an Efficient Electrocatalyst for Oxygen Evolution Reaction, *ACS Applied Energy Materials*, **2020**, 10.1021/acsaem.9b02551
- 90, Jyoti Chauhan, Mahesh K. Ravva, Ludovic Gremaud, and Subhabrata Sen, Blue LED Mediated Intramolecular C–H Functionalization and Cyclopropanation of Tryptamines: Synthesis of Azepino[4, 5-b]indoles and Natural Product Inspired Polycyclic Indoles, *Organic Letters*, **2020**, 10.1021/acs.orglett.0c01559
- 89, Murugaiyan, J.; Eravci, M.; Weise, C.; Roesler, U.; Sprague, L.D.; Neubauer, H.; Wareth, G, Pan-Proteomic Analysis and Elucidation of Protein Abundance among the Closely Related *Brucella* Species, *Brucella abortus* and *Brucella melitensis*, *Biomolecules* , **2020**, 10.3390/biom10060836

- 88, Mayra D. Goncalves, Aleksandra Mielewczyk-Gryn, Pardha S. Maram, Lukasz Kryscio, Maria Gazda and Alexandra Navrotsky, Systematic Water Uptake Energetics of Yttrium-doped Barium Zirconate-A High Resolution Thermochemical Study, *J. Phys. Chem. C*, **2020**, 10.1021/acs.jpcc.0c01049
- 87, Wareth. G., Pletz M. W., Neubauer. H., Murugaiyan. J., Proteomics of Brucella: Technologies and their applications for basic research and medical microbiology, *Microorganisms*, **2020**, 10.3390/microorganisms8050766
- 86, A Swaminathan, A Vadivel, Michael Arock, FERCE: Facial Expression Recognition for Combined Emotions using FERCE algorithm, *IETE Journal of Research*, **2020**, 10.1080/03772063.2020.1756471
- 85, Maiyelvaganan, K. R., Ravva, M. K., & Prakash, M., Twisted Eigen Can Induce the Proton Transfer at Hydrophobic-Hydrophilic Interface, *J. Phys. Chem. A*, **2020**, 10.1021/acs.jpca.9b10149
- 84, Amit Kr Mandal, Anirban Sarkar, Formal Design Model for Service Oriented System: A Conceptual Perspective, *International Journal of Business and Systems Research*, **2020**, 10.1504/IJBSR.2020.108266
- 83, V. M. Manikandan, V. Masilamani, A Novel Bit-plane Compression based Reversible Data Hiding Scheme with Arnold Transform, *International Journal of Engineering and Advanced Technology*, **2020**, 10.35940/ijeat.D7008.069520
- 82, Shukla, A.K., Pippal, S.K., Gupta, S., Ramachandra Reddy, B. and Tripathi, D, Knowledge discovery in medical and biological datasets by integration of Relief-F and correlation feature selection techniques, *Journal of Intelligent & Fuzzy Systems*, **2020**, 10.3233/JIFS-179743
- 81, Jatindra Kumar Dash, Manisha Patro, Thimmapuram Madhuri, Sujata Chakravarty, Achyuth Sarkar, Novel Texture Feature For Content Based Image Retrieval, *Test Engineering and Management*, **2020**,
- 80, Rajeev Prasad, S.Kumar Das, T. Mandal, Jatindra Kumar Dash, A modified ranking function of linear programming problem directly approach to fuzzy environment, *International Journal of Mathematics in Operational Research.*, **2020**,
- 79, Jatindra Kumar Dash, Gandham Girish, P. Pavan Kumar, E. Sudarshan, Sachi Nandan Mohanty, Classification of Lung Tissue Patterns on HRCT Images: Nature of Region of Interest and Classifier Performance, *International Journal of Control and Automation*, **2020**,
- 78, Ankita Singh, Jatindra Kumar Dash, Biswajit Behura, S. Chakravarty, Teaching Learning Based Optimized Support Vector Regression Model for Prediction of Indian Stock Market, *International Journal of Advanced Science and Technology*, **2020**,
- 77, Nalajala, A., Ragunathan, T., Rajendra, S.H.T., Nikhith, N.V.S., Gopisetty, R., Improving Performance of Distributed File System through Frequent Block Access Pattern-Based Prefetching Algorithm, 2019 10th International Conference on Computing, Communication and Networking Technologies, ICCCNT 2019, **2020**, 10.1109/ICCCNT45670.2019.8944405
- 76, Mandal, A., Ferrara, P., Khlyebnikov, Y., Cortesi, A., & Spoto, F., Static Analysis for Discovering IoT Vulnerabilities, *International Journal on Software Tools for Technology Transfer*, **2020**, 10.1007/s10009-020-00592-x

- 75, Rahman, A.U., Ghosh, A., Chandra, A., Blumenstein, J., Mikulasek, T., Prokes A., Time Variance of a 60 GHz Vehicular Infrastructure - to - Infrastructure Channel, Vehicular Communications, **2020**, 10.1016/j.vehcom.2020.100288
- 74, Bevara, V., & Sanki, P. K. , VLSI Implementation of High Throughput Parallel Pipeline Median Finder for IOT Applications, Sadhana, **2020**, 10.1007/s12046-020-1292-9
- 73, Kumar, M., Sharma, S.C., Goel, S., Mishra S. K ., Husain A. , Autonomic cloud resource provisioning and scheduling using meta-heuristic algorithm, Neural Comput & Applic, **2020**, 10.1007/s00521-020-04955-y
- 72, Tripathy, S., & Devarapalli, S. , Emerging trend set by a Start-ups on Indian Online Education System: A case of BYJU'S, Journal of Public Affairs, **2020**, 10.1002/pa.2128
- 71, Pancha, I., Chokshi, K., Tanaka, K., & Imamura, S., Microalgal Target of Rapamycin (TOR): A Central Regulatory Hub for Growth, Stress Response and Biomass Production, Plant and Cell Physiology, **2020**, 10.1093/pcp/pcaa023
- 70, Sangaraju Sambasivam, Pardha Saradhi Maram, V.V. Muralee Gopi, Ihab M. Obaidat, Hydrothermal Synthesis, Crystal and Electronic Structure of a New Hydrated Borate CsKB4O5(OH)4·2H2O, Materials Express , **2020**, 10.1166/mex.2020.1669
- 69, Juvaid, M. M., Sarkar, S., Gogoi, P. K., Ghosh, S., Annamalai, M., Lin, Y. C., ... & Jani, H., Direct Growth of Wafer-Scale, Transparent, p-Type Reduced-Graphene-Oxide-like Thin Films by Pulsed Laser Deposition, ACS Nano, **2020**, 10.1021/acsnano.9b08916
- 68, Jondhale, R., Halkarni, S. S., Raykar, N. R., Sridharan, A., & Prabhu, S. V. , Influence of converging and diverging geometry on the pressure drop distribution in randomly packed beds, Particulate Science and Technology, **2020**, 10.1080/02726351.2020.1733153
- 67, BV Rathish Kumar, Abdul Halim, Vijayakrishna Rowthu, Higher Oder PDE based Model for Segmenting Noisy Image, IET image processing, **2020**, 10.1049/iet-ipr.2019.0885
- 66, Mujral R., 'Use of stories that aren't even true': reading Salman Rushdie's Haroun and the Sea of Stories and Luka and the Fire of Life, Textual Practice, **2020**, 10.1080/0950236X.2020.1734071
- 65, Sarkar, S., Dheer, L., Vinod, C. P., Thapa, R., Waghmare, U. V., & Peter, S. C. , Stress Induced Electronic Structure Modulation of Mnincorporated, Ni2P Leading to Enhanced Activity for Water-Splitting, ACS Applied Energy Materials, **2020**, 10.1021/acsaem.9b02097
- 64, Rakesh Basant and Gitanjali Sen, Quota-Based Affirmative Action in Higher Education: Impact on Other Backward Classes in India, The Journal of Development Studies, **2020**, 10.1080/00220388.2019.1573987
- 63, Sunil Chinnadurai, Poongundran Selvaprabhu, Vetriveeran Rajamani, Monte Carlo Simulation of a Uniform Response Silicon X-ray Detector, International Journal of Recent Technology and Engineering, **2020**, 10.1007/978-3-030-22277-2_18

- 62, Subrata Karmakar, Chetan D. Mistari, Vanshree Parey, Ranjit Thapa, Mahendra More, Dhrubananda Behera, Microporous Network of NiMn₂O₄ as Potent Cathode Materials for Electric Field Emission, *Journal of Physics D: Applied Physics*, **2020**, 10.1088/1361-6463/ab523a
- 61, Mishra, A., Saha, S., Makhija, S., Sinha, S., Raychoudhury, V., Sobin, C.C., Empirical study of dynamics of amoebiasis transmission in mobile ad hoc networks (MANETs), *International Journal of Communication Systems*, **2020**, 10.1002/dac.4186
- 60, Li, C., Murugaiyan, J., Thomas, C., Alter, T., Riedel, C., Isolate Specific Cold Response of *Yersinia enterocolitica* in Transcriptional, Proteomic, and Membrane Physiological Changes, *Frontiers in Microbiology*, **2020**, 10.3389/fmicb.2019.03037
- 59, Karmakar, S., Parey, V., Mistari, C. D., Thapa, R., More, M. A., & Behera, D., Electric Field Emission and Anomalies of Electrical conductivity above room temperature in Heterogeneous NiO-SnO₂ Nano-Ceramic Composites, *Journal of Applied Physics*, **2020**, 10.1063/1.5123997
- 58, Hari Balakrishnan, M., Mannathan, S., Palladium/Copper-Catalyzed Denitrogenative Alkylidenation and ortho-Alkynylation Reaction of 1,2,3-Benzotriazin-4(3 H)-ones, *Organic Letters*, **2020**, 10.1021/acs.orglett.9b04297
- 57, Sarathi Patra, P., Dogga, V.N., Hardy's theorem and rotation for Dunkl transform, *Complex Variables and Elliptic Equations*, **2020**, 10.1080/17476933.2019.1704278
- 56, Hamid Ebrahimi Orimi, Sayadeh Sara Hosseini Kolkoo, Erika Hooker, Sivakumar Narayanswamy, Bruno Larrivée, Christos Boutopoulos, Drop-on-demand cell bioprinting via Laser Induced Side Transfer (LIST), *Scientific Reports*, **2020**, 10.1038/s41598-020-66565-x
- 55, Vegi, N.M., Chakraborty, S., Zegota, M.M., Kuan, S.L., Stumper, A., Rawat, V.P.S., Sieste, S., Buske, C., Rau, S., Weil, T., Feuring-Buske, M., Somatostatin receptor mediated targeting of acute myeloid leukemia by photodynamic metal complexes for light induced apoptosis, *Scientific Reports*, **2020**, 10.1038/s41598-019-57172-6
- 54, Anjana Tripathi, Chavana Hareesh, S. Sinthika, Gunther Andersson, Ranjit Thapa, CO Oxidation on Pt based Binary and Ternary Alloy Nanocatalysts: Reaction Pathways and Electronic Descriptor, *Applied Surface Science*, **2020**, 10.1016/j.apsusc.2020.146964
- 53, Karmakar, S., Raviteja, B., Mistari, C. D., Parey, V., Thapa, R., More, M. A., & Behera, D., Superior Field Emission and Alternating Current Conduction Mechanisms for Grains and Grain Boundaries in an NiO-[CdO]₂ Nanocomposite, *Journal of Physics and Chemistry of Solids*, **2020**, 10.1016/j.jpics.2020.109462
- 52, Mohapatra, S., Dutt, P., Rathish Kumar, B.V., Gerritsma, M.I., Non-conforming least-squares spectral element method for Stokes equations on non-smooth domains, *Journal of Computational and Applied Mathematics*, **2020**, 10.1016/j.cam.2019.112696
- 51, Zaied, B. K., Rashid, M., Nasrullah, M., Zularisam, A. W., Pant, D., & Singh, L., A comprehensive review on contaminants removal from pharmaceutical wastewater by electrocoagulation process, *Science of the Total Environment*, **2020**, 10.1016/j.scitotenv.2020.138095

- 50, Jadhav, P, Effect of Ply Drop in Aerospace Composite Structures, *Key Engineering Materials*, **2020**, 10.4028/www.scientific.net/KEM.847.46
- 49, Sivaramakrishnan, C., Sampling in the image of Sobolev Space in $L_2(\mathbb{R}, \mathbb{R}^2)$ under Schrödinger semigroup $e^{it\Delta}$, *Journal of Pseudo-Differential Operators and Applications*, **2020**, 10.1007/s11868-020-00327-1
- 48, Sobin, C.C., A Survey on Architecture, Protocols and Challenges in IoT, *Wireless Personal Communications*, **2020**, 10.1007/s11277-020-07108-5
- 47, Wang, L., Chen, Y., Long, F., Singh, L., Trujillo, S., Xiao, X., Liu, H., Breaking the loop: Tackling homoacetogenesis by chloroform to halt hydrogen production-consumption loop in single chamber microbial electrolysis cells, *Chemical Engineering Journal*, **2020**, 10.1016/j.cej.2020.124436
- 46, Hegde, V., Yellampalli, S.S., Ravikumar, H.M., Simulation, mathematical modeling, fabrication and experimental analysis of piezoelectric acoustic sensor for energy harvesting applications, *Microsystem Technologies*, **2020**, 10.1007/s00542-019-04702-x
- 45, Borges, A. L., Castro, B., Govindarajan, S., Solvik, T., Escalante, V., & Bondy-Denomy, J., Bacterial alginate regulators and phage homologs repress CRISPR–Cas immunity, *Nature Microbiology*, **2020**, 10.1038/s41564-020-0691-3
- 44, Davis, D., Singh, S., Srivastava, M., Influence of solid lubricants addition on the tribological properties of HVOF sprayed NiMoAl coating from 30 °C to 400 °C, *Materials Letters*, **2020**, 10.1016/j.matlet.2020.127494
- 43, Mandal, S., Monotonicity of the system function of a SISO FRI system with neutrality and ordering property preserving fuzzy implications, *International Journal of Approximate Reasoning*, **2020**, 10.1016/j.ijar.2020.02.001
- 42, Chaturvedi, D., SIW cavity-backed 24° inclined-slots antenna for ISM band application, *International Journal of RF and Microwave Computer-Aided Engineering*, **2020**, 10.1002/mmce.22160
- 41, Singh, L., Rana, S., Thakur, S., Pant, D., Bioelectrofuel Synthesis by Nanoenzymes: Novel Alternatives to Conventional Enzymes, *Trends in Biotechnology*, **2020**, 10.1016/j.tibtech.2019.12.017
- 40, Rajendran, K., Mahapatra, D., Venkatraman, A. V., Muthuswamy, S., & Pugazhendhi, A. , Advancing anaerobic digestion through two-stage processes: current developments and future trends, *Renewable and Sustainable Energy Reviews*, **2020**, 10.1016/j.rser.2020.109746
- 39, Shukla, A.K., Tripathi, D., Detecting biomarkers from microarray data using distributed correlation based gene selection, *Genes and Genomics*, **2020**, 10.1007/s13258-020-00916-w
- 38, Sangi, A.R., Alkathairi, M.S., Anamalamudi, S., Liu, J., Cognitive AODV routing protocol with novel channel-route failure detection, *Multimedia Tools and Applications*, **2020**, 10.1007/s11042-019-7352-7
- 37, Mehta, Ranjana, Saha, Joydip, Sengupta, Indranath, Moh's example of algebroid space curves, *Journal of Symbolic Computation*, **2020**, 10.1117/1.OE.57.4.046109

- 36, Sabyasachi Mukhopadhyay, Senthil Kumar Karuppanan, Cunlan Guo, Jerry A. Fereiro, Adam Bergren, Vineetha Mukundan, Xinkai Qiu, Olga E. Castañeda Ocampo, Xiaoping Chen, Ryan C. Chiechi, Richard McCreery, Israel Pecht, Mordechai Sheves, Rupali Reddy Pasula, Sierin Lim, Christian A. Nijhuis, Ayelet Vilan, David Cahen,, Solid-state protein charge transport: cross-laboratory study shows preservation of transport mechanism, with electronic coupling dictating efficiency, *iScience*, **2020**, 10.1016/j.isci.2020.101099
- 35, Böhringer M, Murugaiyan J, Eravci M, Weise C, Roesler U, Neubauer H, Sprague MD, Treatment of *Yersinia similis* with the cationic lipid DOTAP enhances adhesion to and invasion into intestinal epithelial cells - A proof-of-principle study., *Biochem Biophys Res Commun*, **2020**, 10.1016/j.bbrc.2020.02.081
- 34, Kalluri, S., Cha, H., Kim, J., Lee, H., Jang, H., Cho, J., Building High-Rate Nickel-Rich Cathodes by Self-Organization of Structurally Stable Macrovoid, *Advanced Science*, **2020**, 10.1002/adv.201902844
- 33, Erakulan, E. S., Kumar, E. M., Jena, P., & Thapa, R., B₂H₆ splitting on catalytic surfaces and role of B_H3 towards hydrogen spillover, *Journal of Power Sources*, **2020**, 10.1016/j.jpowsour.2020.227973
- 32, Japa, A., Majumder, M. K., Sahoo, S. K., & Vaddi, R., Tunnel FET based ultra-low power and hardware secure circuit design considering p-i-n forward leakage, *International Journal of Circuit Theory and Applications* , **2020**, 10.1002/cta.2731
- 31, Saradesh, K. M., and G. S. Vinodkumar, Grain Refinement of 24 Karat Gold (99.99 Wt.% Pure) and 22 Karat Gold (Au-5.8wt.%Cu-2.5wt.%Ag) by Au-6wt.%Ti Grain Refiner, *Gold Bulletin*, **2020**, 10.1007/s13404-020-00270-5
- 30, Sengar, S.S., Mukhopadhyay, S., Moving object detection using statistical background subtraction in wavelet compressed domain, *Multimedia Tools and Applications*, **2020**, 10.1007/s11042-019-08506-z
- 29, Huang, K., Wu, L., Wang, M., Swain, N., Motapothula, M., Luo, Y., Han, K., Chen, M., Ye, C., Yang, A.J., Xu, H., Qi, D.-C., N'Diaye, A.T., Panagopoulos, C., Primetzhofer, D., Shen, L., Sengupta, P., Ma, J., Feng, Z., Nan, C.-W., Renshaw Wang, X., Tailoring magnetic order via atomically stacking 3 d /5 d electrons to achieve high-performance spintronic devices, *Applied Physics Reviews*, **2020**, 10.1063/1.5124373
- 28, Sebatini, S., Kalluri, S., Anish Madhavan, A., Green synthesized α -Fe₂O₃ mesoporous network for heterogeneous Fenton oxidation of thiazine dye, *Materials Letters: X*, **2020**, 10.1016/j.mlblux.2019.100037
- 27, Zaied, B.K., Nasrullah, M., Siddique, M.N.I., Zularisam, A.W., Singh, L., Krishnan, S., Co-digestion of palm oil mill effluent for enhanced biogas production in a solar assisted bioreactor: Supplementation with ammonium bicarbonate, *Science of the Total Environment*, **2020**, 10.1016/j.scitotenv.2019.136095
- 26, Sangi, A.R., Liu, J., Alkathairi, M.S., Anamalamudi, S., Secure opinion sharing for reputation-based systems in mobile ad hoc networks, *Measurement and Control (United Kingdom)*, **2020**, 10.1177/0020294019900314

- 25, Kanithan, S., Vignesh, N. A., Karthikeyan, E., & Kumareshan, N., An Intelligent Energy Efficient Cooperative MIMO-AF Multi-hop and Relay based Communications for Unmanned Aerial Vehicles (UAVs) Networks, *Computer Communications*, **2020**, 10.1016/j.comcom.2020.01.029
- 24, Karmakar, S., Parey, V., Mistari, C. D., Thapa, R., More, M. A., & Behera, D. , Fowler-Nordheim Law Correlated Improved Field Emission in Self-Assembled NiCr₂O₄ Nanosheets, *physica status solidi (a) – applications and materials science*, **2020**, 10.1002/pssa.201900741
- 23, K.M. Saradesh and G. S. VinodKumar, Metallurgical processes for hardening of 22Karat Gold for lightweight and high strength jewelry manufacturing, *Journal of Materials Research & Technology*, **2020**, 10.1016/j.jmrt.2019.12.033
- 22, S.Sasikumar, K.Georgy, M.Mukherjee, G.S.VinodKumar, Foam stabilization by aluminum powder, *Materials Letters*, **2020**, 10.1016/j.matlet.2019.127142
- 21, Dalapati, G. K., Masudy-Panah, S., Moakhar, R. S., Chakraborty, S., Ghosh, S., Kushwaha, A., ... & Ramakrishna, S., Nano-engineered Advanced Materials for Enabling Hydrogen Economy: Functionalized Graphene incorporated Cupric Oxide Catalyst for Efficient Solar Hydrogen Production, *Global Challenges*, **2020**, 10.1016/j.procs.2020.04.119
- 20, Hota, T.K., Mishra, M., Transient growth and symmetrizability in rectilinear miscible viscous fingering, *Journal of Engineering Mathematics*, **2020**, 10.1007/s10665-019-10034-6
- 19, Singh, S., Guan-Ru, C., Modeling variations in price inertia under demand uncertainty, *Journal of Revenue and Pricing Management*, **2020**, 10.1057/s41272-018-00185-z
- 18, Toor, M., Kumar, SS., Malyan, SK., Bishnoi, NR., Mathimani, T., Rajendran, K., Pugazhendhi, A. , An overview on bioethanol production from lignocellulosic feedstocks, *Chemosphere*, **2020**, 10.1016/j.chemosphere.2019.125080
- 17, Kumar, D., Singh, A., Kumar, P., Uversky, V.N., Rao, C.D., Giri, R., Understanding the penetrance of intrinsic protein disorder in rotavirus proteome, *International Journal of Biological Macromolecules*, **2020**, 10.1016/j.ijbiomac.2019.09.166
- 16, Sutharsan Govindarajan, A bacteriophage nucleus-like compartment shields DNA from CRISPR nucleases, *Nature*, **2020**, 10.1038/s41586-019-1786-y
- 15, Maricruz Rivera-Hernandez, Shailender Swaminathan, Rebecca Thorsness, BA, Yoojin Lee, Rajnish Mehrotra, Benjamin D. Sommers, Amal N. Trivedi, TRENDS IN MORTALITY AMONG INCIDENT PATIENTS WITH END-STAGE RENAL DISEASE IN PUERTO RICO COMPARED TO THE US, 2006 - 2015, *American Journal of Kidney Diseases*, **2020**, 10.1053/j.ajkd.2019.08.006
- 14, Sangaraju Sambasivam, Pardha Saradhi Maram,V.V. Muralee Gopi, Ihab M. Obaidat, Effect of erbium on the structural, morphological, and optical properties of SnO₂ thin films deposited by spray pyrolysis, *Optik*, **2020**, 10.1016/j.ijleo.2019.163596
- 13, V.G.Vasavi Dutt, Syed Akhil and Nimai Mishra , Fast, Tunable and Reversible Anion-Exchange in CsPbBr₃ Perovskite Nanocrystals with Hydrohalic Acids, *CrystEngComm*, **2020**, 10.1039/d0ce00722f

- 12, S. Kouachi, S. Dhuli and Y. N. Singh, Convergence Rate Analysis of Periodic Gossip Algorithms for One-Dimensional Lattice WSNs, *IEEE Sensors Journal*, **2020**, 10.1109/JSEN.2020.3003623
- 11, Manikandan V.M., Bini A.A., An Improved Reversible Data Hiding Through Encryption Scheme with Block Prechecking, *Procedia Computer Science*, **2020**, 10.1016/j.procs.2020.04.103
- 10, Ambika Ray, Tanmoy Basu, Banarji Behera, Deepak S. Gavali, Ranjit Thapa, Pratibindhya Nayak, Structural, dielectric, electrical properties of Nd doped double perovskite ceramics and variation of density of states upon doping, *Materials Chemistry and Physics*, **2020**, 10.1016/j.matchemphys.2019.122250
- 9, Prakash Jadhav, Innovative designs of embedded foam inserts in aerospace composite structures, *Materials Today: Proceedings*, **2020**, 10.1016/j.matpr.2020.01.066
- 8, Shukla, M. K., Nguyen, H. H., & Pandey, O. J., Secrecy Performance Analysis of Two-Way Relay Non-Orthogonal Multiple Access Systems, *IEEE Access*, **2020**, 10.1109/ACCESS.2020.2975924
- 7, Yao, L.; Liao, H.; Ravva, M. K.; Guo, Y.; Duan, J.; Wang, Y.; Yu, Y.; Li, Z.; McCulloch, I.; Yue, W. , Metal-Free Polymerization: Synthesis and Properties of Fused Benzo[1,2- b :4,5- b ']Bis[b]Benzothiophene (BBBT) Polymers, *Polym. Chem*, **2020**, 10.1039/D0PY00623H
- 6, Dalapati, G. K., Wong, L. H., & Osterloh, F. E., Research presented at Symposium P of the 10th International Conference of Materials and Advanced Technology (ICMAT 2019), *Journal of Materials Chemistry A*, **2020**, 10.1039/c9ta90275a
- 5, Elumalai, K., Yadav, D. K., Manpura, A. K., & Patney, R. K., Stacking seismic data based on Ramanujan sums, *IEEE Geoscience and Remote Sensing Letters*, **2020**, 10.1109/LGRS.2019.2951300
- 4, Saini, H., Venkata, J. M., Waghmare, U. V., & Thapa, R., Role of van der Waals interaction to enhance the photon absorption capability of MoS₂/2D heterostructure, *Physical Chemistry Chemical Physics*, **2020**, 10.1039/c9cp05782j
- 3, Sankar, V., Karthik, P., Neppolian, B., & Sivakumar, B., Metal-organic framework mediated expeditious synthesis of benzimidazole and benzothiazole derivatives through oxidative cyclization pathway, *New Journal of Chemistry*, **2020**, 10.1039/c9nj04431k
- 2, Tripathy, S., Shaik, A.R., Leverage and firm performance: Empirical evidence from Indian food processing industry, *Management Science Letters*, **2020**, 10.5267/j.msl.2019.11.035
- 1, Pandey, O. J., Fault-Resilient Distributed Detection and Estimation over a SW-WSN Using LCMV Beamforming, *IEEE Transactions in Network and Service Management*, **2020**, 10.1109/TNSM.2020.2988994