

List of Publications - 2019

	Authors	Title	Journal	Year	Vol	Pages Start	Pages end	Impact Factor	Scopus Indexed	SJR
1	Maiti, Paramita; Guha, Puspendu; Singh, Ranveer; Dash, Jatis Kumar; Satyam, Parlapalli, V	Optical band gap, local work function and field emission properties of MBE grown beta-MoO ₃ nanoribbons	APPLIED SURFACE SCIENCE	2019	476	691	700	5.16	Indexed	Q1
2.	Maricruz Rivera-Hernandez, Shailender Swaminathan, Rebecca Thorsness, BA, Yoojin Lee, Rajnish Mehrotra, Benjamin D. Sommers, Amal N. Trivedi	Trends in Mortality Among Patients Initiating Maintenance Dialysis in Puerto Rico Compared to US States	American Journal of Kidney Diseases	2019	-	-	-	6.65	Indexed	Q1
3.	Deutschmann, Claudia; Sowa, Mandy; Murugaiyan, Jayaseelan; Roesler, Uwe; Roeber, Nadja; Conrad, Karsten; Laass, Martin W.; Bogdanos, Dimitrios; Sipeki, Nora; Papp, Maria; Roediger, Stefan; Roggenbuck, Dirk; Schierack, Peter	Identification of Chitinase-3-Like Protein 1 as a Novel Neutrophil Antigenic Target in Crohn's Disease	JOURNAL OF CROHNS & COLITIS	2019	13	894	904	7.83	Indexed	Q1
4.	Subrata Karmakar, Chetan D. Mistari, Vanshree Parey, Ranjit Thapa, Mahendra More, Dhruvananda Behera	Microporous Network of NiMn ₂ O ₄ as Potent Cathode Materials for Electric Field Emission	Journal of Physics D: Applied Physics	2019	-	-	-	2.829	Indexed	Q1
5.	Subhadeep Roy, Soumyajyoti Biswas, and Purusattam Ray	Failure time in heterogeneous systems	Phys. Rev. Research	2019	1	033047	-	0	Indexed	---
6.	J.H. Kim, C.Hyun, H.Kim, J. K. Dash, K.Lhm and G.-H Lee	Thickness-insensitive properties of α -MoO ₃ nanosheets by weak interlayer coupling	Nano Letters	2019	-	-	-	12.279	Indexed	Q1
7.	G. S. Vinod Kumar	Study on the electrochemical behaviour of 22k gold (Au-5.8wt.%Cu-2.5wt.%Ag) and Ti containing 22k gold (Au-5.8wt.%Cu-2.0wt.%Ag-0.5wt.%Ti)	Gold Bulletin	2019	-	1	9	2.279	Indexed	Q2
8.	Sangaraju Sambasivam, Pardha Saradhi Maram,V.V. Muralee Gopi, Ihab M. Obaidat	Effect of erbium on the structural, morphological, and optical properties of SnO ₂ thin films deposited by spray pyrolysis	Optik	2019	202	163596	-	1.914	Indexed	Q2
9.	M. V. Jyothirmai, Himanshu Saini, Noejung Park, and Ranjit Thapa	Screening of Suitable Cationic Dopants for Solar Absorber Material CZTS/Se: A first-principles study	Scientific Reports	2019	9	15983	-	4.01	Indexed	Q1
10.	Toor, M., Kumar, SS., Malyan, SK., Bishnoi, NR., Mathimani, T., Rajendran, K., Pugazhendhi, A.	An overview on bioethanol production from lignocellulosic feedstocks	Chemosphere	2019	242	125080	-	5.11	Indexed	Q1
11.	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 Physic	2019	239	122250	-	2.78	Indexed	Q2
12.	Yaping Yu, Ning Xue, Chengyi Xiao, Mahesh kumar Ravva, Yanjun Guo, Liyun Wu, Lei Zhang, Zhengke Li, Wan Yue, and Z-H Wang	Effect of Conjugated Length on the Properties of Fused Perylene Diimides with variable Isoindigos	Journal of Materials Chemistry C	2019	7	12263	12269	6.641	Indexed	Q1
13.	Sean d'brass, K.R. Ravi, J. Nampoothiri, K.M. Saradesh, T. Rajasekaran, G. S. Vinod Kumar	The effect of melt ultrasound treatment on the microstructure and age hardenability of Al-4wt.%Cu/TiC composite	Metallurgical and Materials Transactions B	2019	50	2557	2565	1.95	Indexed	---
14.	Vennela, R., & Smith, R.	Bilingual English teaching in colonial India: The case of John Murdoch's work in Madras Presidency, 1855-1875	Language and History	2019	-	1855	1875	0.35	Indexed	Q3

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15.	Samsonyuk, O.N., Timoshin, S.A.	Optimal control problems with states of bounded variation and hysteresis	Journal of Global Optimization	2019	74	565	596	-	Indexed	Q1
16.	A. Rajkamal, and Ranjit Thapa	Carbon Allotropes as Anode Material for Lithium-Ion Batteries,	Advanced Materials Technology	2019	4	1900307	-	5.395	Indexed	Q1
17.	Paramita Banerjee, Ranjit Thapa, A. Rajkamal, K.R.S. Chandrakumar, and G.P. Das	First-principles Identification of The Origin for Higher Activity of Surface Doped Carbon Nanohorn: Impact on Hydrogen Storage	International Journal of Hydrogen Energy	2019	44	23196	23209	4.08	Indexed	Q1
18.	Bhattacharya, S., Dinda, D., Kumar, E.M., Thapa, R., Saha, S.K.	Charge transfer induced ferromagnetism and anomalous temperature increment of coercivity in ultrathin α -Fe ₂ O ₃ decorated graphene 2D nanostructures	Journal of Applied Physics	2019	125	233904	-	2.33	Indexed	Q2
19.	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	2019	-	-	-	6.65	Indexed	Q1
20.	Joshi, R., Subramanian, C., Swaminathan, S.	Are there social returns to education in developing countries? Evidence from Indonesia	Economic Development and Cultural Change	2019	67	315	332	2.04	Indexed	Q1
21.	Chandra Shekar Bhatt, Bharathkumar Nagaraj, Deepanjan Ghosh, Ramasamy Suresh, Ranjit Thapa, Sreekar Babu Marpu and Anil Kumar Suresh	Core-composite mediated separation of diverse nanoparticles to purity	Soft Matter	2019	15	7787	7794	3.4	Indexed	Q1
22.	Joy, Jil, Mahesh Jadhav, Disna Sahane, Deepak Davis, and Sheela Singh	Elemental effect on formation of solid solution phase in CoCrFeNiX and CoCuFeNiX (X= Ti, Zn, Si, Al) high entropy alloys	Materials Science and Technology	2019	35	1700	1707	1.94	Indexed	Q1
23.	Davis, Deepak, A. Farhaan Shah, Bharat B. Panigrahi, and Sheela Singh	Effect of Cr ₂ AlC nanolamella addition on tribological properties of 5W-30 engine oil	Applied Surface Science	2019	493	1098	1105	5.16	Indexed	Q1
24.	Singh, S., Guan-Ru, C.	Modeling variations in price inertia under demand uncertainty	Journal of Revenue and Pricing Management	2019	-	-	-	0	Indexed	Q2
25.	Shailender Singh and Chen Guan-Ru	Price Rigidity, Market Competition, and Product Differentiation, Economic Research-Ekonomiska Istraživanja	Economic Research	2019	32	2935	2952	1.38	Indexed	---
26.	Dutta, P.K., Chauhan, J., Ravva, M.K., Sen, S.	Directing-group-assisted manganese-catalyzed cyclopropanation of indoles	Organic Letters	2019	21	2025	2028	6.56	Indexed	Q1
27.	Dutta, P.K., Ravva, M.K., Sen, S.	Cobalt-Catalyzed, Hydroxyl-Assisted C-H Bond Functionalization: Access to Diversely Substituted Polycyclic Pyrans	Journal of Organic Chemistry	2019	84	1176	1184	4.75	Indexed	Q1
28.	Chauhan, D., Hati, S., Priyadarshini, R., Sen, S.	Transcriptome analysis predicts mode of action of benzimidazole molecules against Staphylococcus aureus UAMS-1	Drug Development Research	2019	80	490	503	1.74	Indexed	Q3
29.	Luthra, T., Nayak, A.K., Bose, S., Chakrabarti, S., Gupta, A., Sen, S.	Indole based antimalarial compounds targeting the melatonin pathway: Their design, synthesis and biological evaluation	European Journal of Medicinal Chemistry	2019	-	11	27	4.83	Indexed	Q1
30.	Rakesh Basant and Gitanjali Sen	Quota-Based Affirmative Action in Higher Education: Impact on Other Backward Classes in India	The Journal of Development Studies	2019	-	1	25	1.53	Indexed	Q1
31.	Wang, Y., Xu, Y., Ravva, M.K., Yu, Y., Xiao, M., Xue, X., Yang, X., Chen, Y., Li, Z., Yue, W.	The synthesis and properties of a new class of π -expanded diketopyrrolopyrrole analogs and conjugated polymers	Organic Chemistry Frontiers	2019	6	2974	2980	5.08	Indexed	Q1

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32.	Subhabrata Sen, Jyoti Chauhan, Mahesh Kumar Ravva,	Harnessing autooxidation of aldehydes: In situ iodoarene catalysed synthesis of substituted 1, 3, 4-oxadiazole, in presence of molecular oxygen	Organic Letters	2019	21	6562	6565	6.56	Indexed	Q1
33.	Hailiang Liao, chengyi xiao, Mahesh Kumar Ravva, Liping Yao, Yaping Yu, Yinghe Yang, Weiming Zhang, Lei Zhang, Zhengke Li, Iain McCulloch, wan yue	Fused Pyrazine and Carbazole-Containing Azaacenes: Synthesis and Properties	ChemPlusChem	2019	84	1257	1262	3.44	Indexed	Q1
34.	Haseena, S., Kumar, R.M., Rajapandian, V., Subramanian, V.	Interactions of thiol and alkoxy radical with coinage metal nanoclusters	Applied Surface Science	2019	487	1409	1419	5.16	Indexed	Q1
35.	Karuthedath, S., Gorenflot, J., Firdaus, Y., Sit, W.-Y., Eisner, F., Seitkhan, A., Ravva, M.K., Anthopoulos, T.D., Laquai, F.	Charge and Triplet Exciton Generation in Neat PC<inf>70</inf>BM Films and Hybrid CuSCN:PC<inf>70</inf>BM Solar Cells	Advanced Energy Materials	2019	9	1802476	-	24.88	Indexed	Q1
36.	Rajendran, K., Murthy, G.S.	Techno-economic and life cycle assessments of anaerobic digestion – A review	Biocatalysis and Agricultural Biotechnology	2019	20	101207	-	0	Indexed	Q2
37.	Bose, A., Lin, R., Rajendran, K., O'Shea, R., Xia, A., & Murphy, J. D	How to optimise photosynthetic biogas upgrading: a perspective on system design and microalgae selection	Biotechnology Advances	2019	37	107444	-	12.83	Indexed	Q1
38.	Dhamodharan, K., Varma, V.S., Veluchamy, C., Pugazhendhi, A., Rajendran, K.	Emission of volatile organic compounds from composting: A review on assessment, treatment and perspectives	Science of the Total Environment	2019	695	133725	-	5.59	Indexed	Q1
39.	McDonagh, S., Deane, P., Rajendran, K., Murphy, J.D.	Are electrofuels a sustainable transport fuel? Analysis of the effect of controls on carbon, curtailment, and cost of hydrogen	Applied Energy	2019	247	716	730	8.43	Indexed	Q1
40.	Awasthi, M.K., Sarsaiya, S., Wainaina, S., Rajendran, K., Kumar, S., Quan, W., Duan, Y., Awasthi, S.K., Chen, H., Pandey, A., Zhang, Z., Jain, A., Taherzadeh, M.J.	A critical review of organic manure biorefinery models toward sustainable circular bioeconomy: Technological challenges, advancements, innovations, and future perspectives	Renewable and Sustainable Energy Reviews	2019	111	115	131	10.56	Indexed	Q1
41.	Krishna, T.L.S.R., Ragunathan, T.	Performance evaluation of speculative semantics-based algorithm for read operations in distributed file system	International Journal of Communication Networks and Distributed Systems	2019	22	275	293	0	index	Q4
42.	Reddy, S., Kumar, M., Panchagnula, J.S., Parchuri, P.K., Kumar, S.S., Ito, K., Sharma, A.	A new approach for attaining uniform properties in build direction in additive manufactured components through coupled thermal-hardness model	Journal of Manufacturing Processes	2019	40	46	58	3.462	Indexed	Q1
43.	Nizami, T.K., Chakravarty, A., Mahanta, C.	Erratum to "Analysis and Experimental Investigation into a Finite Time Current Observer Based Adaptive Backstepping Control of Buck Converters"	Journal of the Franklin Institute	2019	356	4190	-	3.65	Indexed	Q1
44.	Bredtmann, C.M., Krücken, J., Murugaiyan, J., Balard, A., Hofer, H., Kuzmina, T.A., von Samson-Himmelstjerna, G.	Concurrent Proteomic Fingerprinting and Molecular Analysis of Cyathostomins	Proteomics	2019	19	-	-	3.11	Indexed	Q1
45.	Paternò, G.M., Mishra, N., Barker, A.J., Dang, Z., Lanzani, G., Manna, L., Petrozza, A.	Broadband Defects Emission and Enhanced Ligand Raman Scattering in OD Cs<inf>3</inf>Bi<inf>2</inf>I<inf>9</inf> Colloidal Nanocrystals	Advanced Functional Materials	2019	29	1805299	-	15.62	Indexed	Q1
46.	Nimai Mishra, and Vasavi Dutt Vankadaru	Recent Progress on Metal Chalcogenide Semiconductor	Chemistry of Materials	2019	-	-	-	10.16	Indexed	Q1

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		Tetrapod-Shaped Colloidal Nanocrystals and their Applications in Optoelectronics								
47.	Madasamy, K., Kumaraguru, S., Sankar, V., Mannathan, S., Kathiresan, M.	A Zn based metal organic framework as a heterogeneous catalyst for C-C bond formation reactions	New Journal of Chemistry	2019	43	3795	3800	3.07	Indexed	Q1
48.	Ibrahim Muhammad, Madasamy Hari Balakrishnan, Manickam Sasidharan and Subramaniyan Mannathan	Potassium tert-Butoxide Mediated Aerobic Hydroxylation of Arylboronic Acids to Phenols: An Application towards the Synthesis of (E)-Phenoxy Acrylates	New Journal of Chemistry	2019	43	11065	11068	3.07	Indexed	Q1
49.	Rabey, P.K., Jammy, S.P., Bruce, P.J.K., Sandham, N.D.	Two-dimensional unsteadiness map of oblique shock wave/boundary layer interaction with sidewalls	Journal of Fluid Mechanics	2019	-	871R41	871R41	3.14	Indexed	Q1
50.	Mudalige, G.R., Reguly, I.Z., Jammy, S.P., Jacobs, C.T., Giles, M.B., Sandham, N.D.	Large-scale performance of a DSL-based multi-block structured-mesh application for Direct Numerical Simulation	Journal of Parallel and Distributed Computing	2019	131	130	146	1.82	Indexed	Q2
51.	Halkarni, S.S., Sridharan, A., Prabhu, S.V.	Local wall heat transfer coefficient measurement in a packed bed of cylinders using infrared (IR) thermography technique and application of random packing of cylindrical particles inside concentric tube heat exchangers with water as working medium	Heat and Mass Transfer/Waer me- und Stoffuebertragung	2019	55	2305	2328	1.55	Indexed	Q2
52.	Sassani, A., Arabzadeh, A., Ceylan, H., Kim, S., Gopalakrishnan, K., Taylor, P.C., Nahvi, A.	Polyurethane-carbon microfiber composite coating for electrical heating of concrete pavement surfaces	Heliyon	2019	5	e02359	-	0	Indexed	Q1
53.	Kaya, O., Zhang, Y., Ceylan, H., Kim, S., Yang, S., Taylor, P., and Gopalakrishnan, K	Numerical analysis of longitudinal cracking in widened jointed plain concrete pavement systems	International Journal of Pavement Research and Technology	2019	12	277	287	0	Indexed	Q1
54.	Notani, M.A., Arabzadeh, A., Ceylan, H., Kim, S., Gopalakrishnan, K.	Effect of Carbon-Fiber Properties on Volumetrics and Ohmic Heating of Electrically Conductive Asphalt Concrete	Journal of Materials in Civil Engineering	2019	31	4019200	-	1.98	Indexed	Q1
55.	Das, B., Enduri, M.K., Kiyomi, M., Misra, N., Otachi, Y., Reddy, I.V., Yoshimura, S.	On structural parameterizations of firefighting	Theoretical Computer Science	2019	782	79	90	0.72	Indexed	Q1
56.	Kim, J.H., Dash, J.K., Kwon, J., Hyun, C., Kim, H., Ji, E., Lee, G.-H.	Van der Waals epitaxial growth of single crystal α -MoO ₃ layers on layered materials growth templates	2D Materials	2019	6	015016	-	7.34	Indexed	Q1
57.	Patel, R., Santhosh, M., Dash, J.K., Karpoomath, R., Jha, A., Kwak, J., Patel, M., Kim, J.H.	Ile-Lys-Val-ala-Val (IKVAV) peptide for neuronal tissue engineering	Polymers for Advanced Technologies	2019	30	4	12	2.16	Indexed	Q1
58.	S. Biswas, M. Zaiser,	Avalanche dynamics in hierarchical fiber bundles	Phys. Rev. E	2019	100	022133	-	2.35	Indexed	Q1
59.	Soumyajyoti Biswas and Lucas Goehring	Load dependence of power outage statistics	EPL	2019	126	44002	-	1.89	Indexed	Q2
60.	Atik, F., Bapat, R.B., Rajesh Kannan, M.	Resistance matrices of graphs with matrix weights	Linear Algebra and Its Applications	2019	571	41	57	0.98	Indexed	Q1
61.	Atik, F.	On equitable partition of matrices and its applications	Linear and Multilinear Algebra	2019	-	-	-	0.96	Indexed	Q2
62.	Sangi, A.R., Alkatheiri, M.S., Anamalamudi, S., Liu, J.	Cognitive AODV routing protocol with novel channel-route failure detection	Multimedia Tools and Applications	2019	-	1	18	2.1	Indexed	Q1
63.	Ajitha, S. and Sivakumar, V.	The moderating role of age and gender on the attitude towards new luxury fashion brands	Journal of Fashion Marketing and Management: An International Journal	2019	23	440	465	1.65	Indexed	Q1

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64.	Siarhei Zhuka, Terence Kin Shun Wong, Shreyash Sudhakar Hadke, Stener Lie, Asim Guchhait, Yu Gao, Lydia Helena Wong, Shuying Cheng, Xinghui Wang, Goutam Kumar Dalapati	Molybdenum Incorporated Cu _{1.69} ZnSnS ₄ Kesterite Photovoltaic Devices with Bilayer Microstructure and Tunable Optical-Electronic Properties	Solar Energy	2019	-	-	-	4.67	Indexed	Q1
65.	Sangaraju Sambasivam, Pardha Saradhi Maram, V.V. Muralee Gopi, Ihab M. Obaidat	Hydrothermal Synthesis, Crystal and Electronic Structure of a New Hydrated Borate CsKB ₄ O ₅ (OH) ₄ ·2H ₂ O	Materials Express	2019	-	-	-	1.597	Indexed	Q2
66.	Pietro Ferrara, Amit Kr Mandal, Agostino Cortesi, Fausto Spoto	Cross-Programming Language Taint Analysis for the IoT Ecosystem	Electronic Communications of the EASST	2019	77	-	-	0	Indexed	Q4
67.	Sutharsan Govindarajan	A bacteriophage nucleus-like compartment shields DNA from CRISPR nucleases	Nature	2019	-	-	-	43.06	Indexed	Q1
68.	Sengar, S.S.	Motion segmentation based surveillance video compression using adaptive particle swarm optimization	Neural Computing and Applications	2019	-	-	-	4.66	Indexed	Q1
69.	S.Sasikumar, K.Georgy, M.Mukherjee, G.S.VinodKumar	Foam stabilization by aluminum powder	Materials Letters	2019	-	-	-	3.019	Indexed	Q1
70.	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	2019	-	-	-	3.32	Indexed	Q1
71.	Manjula, N., Yellampalli, S.S.	Real time minimum energy tracking techniques for digital load circuit	International Journal of Recent Technology and Engineering	2019	8			5.92	Indexed	Q4
72.	Atik, F., Kannan, M.R., Bapat, R.B.	On distance and Laplacian matrices of trees with matrix weights	Linear and Multilinear Algebra	2019				0	Indexed	Q2
73.	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	2019				1.513	Indexed	Q2
74.	Sengar, S.S., Mukhopadhyay, S.	Moving object detection using statistical background subtraction in wavelet compressed domain	Multimedia Tools and Applications	2019				2.101	Indexed	Q1
75.	Tripathy, S., Shaik, A.R.	Leverage and firm performance: Empirical evidence from Indian food processing industry	Management Science Letters	2019	10			0.76	Indexed	Q2
76.	Saradesh, K.M., Vinodkumar, G.S.	Metallurgical processes for hardening of 22Karat Gold for light weight and high strength jewelry manufacturing	Journal of Materials Research and Technology	2019				3.327	Indexed	Q2