

Papers published in Science Citation Index (SCI) journals - 2019

Sl.	Title	Authors	Journal	Details
1	“Naked eye” detection of CN- from aqueous phase and other extracellular matrices: An experimental and theoretical approach mimicking logic gate concept	Sourav Bej, Riyanka Das , Harish Hirani, Somnath Ghosh, Priyabrata Banerjee	New J. Chem	2019, 43 (46), pp. 18098-18109
2	3D Printed Sensors for Biomedical Applications: A Review	Tao Han, Sudip Kundu, Anindya Nag, Yongzhao Xu	Sensors	2019, 19 (7), article no. 1706
3	A Flexible Discontinuous Modulation Scheme with Hybrid Capacitor Voltage Balancing Strategy for Three-Level NPC Traction Inverter	Sarbani Mukherjee, Santu Giri, Subrata Banerjee	IEEE Transactions on Industrial Electronics	2019, 66 (5), pp. 3333 - 3343
4	A Generalized Discontinuous PWM Scheme for Three-Level NPC Traction Inverter with Minimum Switching Loss for Electric Vehicles	Sarbani Mukherjee, Santu Kumar Giri, Sourabh Kundu, Subrata Banerjee	IEEE Transactions on Industry Applications	2019, 55 (1), pp. 516 - 528
5	A Journey towards Salivary Fluoride level Detection by Suitable Low Cost Chemosensor: from Molecule to Product	Pritam Ghosh, Priyabrata Banerjee	The Chemical Record	2019, 19 (10), pp. 2119-2129
6	A novel non-enzymatic zinc oxide thin film based electrochemical recyclable strip with device interface for quantitative detection of catechol in water	A.Maikap, K. Mukherjee, B. Mondal, N. Mandal, A.K. Meikap	Biosensors and Bioelectronics	2019, 128, pp. 32-36
7	A prolonged exposure of Ti-Si-B-C nanocomposite coating in 3.5 wt% NaCl solution: Electrochemical and morphological analysis	Parikshit Mahato, Suman K. Mishra, Manilal Murmu, Naresh Chandra Murmu, Harish Hirani, Priyabrata Banerjee	Surface and Coatings Technology	2019, 375, pp. 477-488
8	A SILAR method for the fabrication of layer-by-layer assembled Cu ₂ O-reduced graphene oxide composite for non-enzymatic detection of hydrogen peroxide	J Sharath Kumar, Naresh Chandra Murmu, Amit Banerjee, R, Sankar Ganesh, Hiroshi Inokawa, Tapas Kuila	Materials Research Express	2019, 6 (2), article no. 025045
9	A simple urea-based multianalyte and multichannel chemosensor for the selective detection of F ⁻ , Hg ²⁺ and Cu ²⁺ in solution and cells and the extraction of Hg ²⁺ and Cu ²⁺ from real water sources: a logic gate mimic ensemble	Amita Mondal, Additi Roy Chowdhury, Samuzal Bhuyan, Subhra Kanti Mukhopadhyay, Priyabrata Banerjee	Dalton Transactions	2019, 48, pp. 4375-4386
10	A spiral shaped regenerative microfluidic fuel cell with Ni-C based porous electrodes	Ravi Kumar Arun, Anjali, Moumita Sardar, Preeti Singh,	International Journal of Energy Research	2019, 43 (14), pp. 8834-8840

		Bishnu Mohan Jha, Nripen Chanda		
11	All-circular hole microstructured fiber with high birefringence and low confinement loss	Sneha Verma	Applied Optics	2019, 58 (14), pp. 3767-3774
12	Amine cured double Schiff base epoxy as efficient anticorrosive coating materials for protection of mild steel in 3.5% NaCl medium	ManilalMurmuSoura v Kr.SahaNaresh ChandraMurmuPriya brataBanerjee	Journal of Molecular Liquids	2019, 278, pp. 521-535
13	Ammonia-Assisted Growth of CoSn(OH) ₆ Nanostructures and Their Electrochemical Performances for Supercapacitor	Shipra Raj, Pradip Kar, Poulomi Roy	Journal of Nanoscience and Nanotechnology	2019, 19 (5), pp. 2755-2761
14	An Improved Adjustable Modulation Strategy for Three-level NPC Inverters Considering Dynamic Loading Applications	Sarbani Mukherjee, Santu Kumar Giri, Subrata Banerjee	IEEE Transactions on Industry Applications	2019, 55 (4), pp. 3915 - 3925
15	An Improved Modulation Strategy for Fast Capacitor Voltage Balancing of Three-Level NPC Inverters	Santu Giri, Subrata Banerjee, Chandan Chakraborty	IEEE Transactions on Industrial Electronics	2019, 66 (10), pp. 7498 - 7509
16	Assessment of Mixture and Eulerian Multiphase Models in Predicting the Thermo-Fluidic Transport Characteristics for Fly Ash-Water Slurry Flow in Straight Horizontal Pipeline	Bibhuti Bhusan Nayak, Dipankar Chatterjee	Heat Transfer Engineering	2019, 40 (8), pp. 679-692
17	Automatic estimation of mechanical properties from fractographs using optimal anisotropic diffusion and Voronoi tessellation	Samik Dutta, Abhishek Karmakar, Himadri Roy, Kaustav Barat	Measurement	2019, 134, pp. 574-585
18	Binder-Free Growth of Nickel-Doped Iron Sulfide on Nickel Foam via Electrochemical Deposition for Electrocatalytic Water Splitting	Subhasis Shit, Saikat Bolar, Naresh Chandra Murmu, Tapas Kuila	ACS Sustainable Chemistry & Engineering	2019, 7 (21), pp. 18015-18026
19	Biodiesel production from waste cooking oil using heterogeneous catalysts and its operational characteristics on variable compression ratio CI engine	Jatinder Kataria, S.K. Mohapatra, K. Kundu	Journal of the Energy Institute	2019, 92 (2), pp. 275-287
20	Bioinspired silver nanoparticles/reduced graphene oxide nanocomposites for catalytic reduction of 4-nitrophenol, organic dyes and act as energy storage electrode material	Haradhan Kolya, Tapas Kuila, Nam Hoon Kim, Joong Hee Lee	Composites Part B: Engineering	2019, 173, article no. 106924
21	Borane phosphonate DNA: a versatile unnatural internucleotide linkage	Rajen Kundu	New Journal of Chemistry	2019, 43, pp. 4323-4328

22	Cd(II) Based Coordination Polymer Series: Fascinating Structures, Efficient Semiconductors, and Promising Nitro Aromatic Sensing	Pravat Ghorai, Arka Dey, Abhijit Hazra, Basudeb Dutta, Paula Brandão, Partha Pratim Ray, Priyabrata Banerjee, Amrita Saha	Crystal Growth & Design	2019, 19 (11), pp. 6431-6447
23	Covalently grafting of self-assembled functionalized graphene oxide multilayer films on Si substrate for solid film lubrication	Suprakash Samanta, Santosh Singh, Rashmi R. Sahoo	Thin Solid Films	2019, 683, pp.16-26
24	Design and development of non-perfluorinated ionic polymer metal Composite-based flexible link manipulator for robotics assembly	Ravi Kant Jain, Ajahar Khan, Inamuddin, Abdullah M. Asiri	Polymer Composites	2019, 40 (7), pp. 2582-2593
25	Design of Adaptive Voltage Dither Control Framework Based on Spectral Analysis for Nonlinear Piezoelectric Actuator	S.K. Shome, S. Jana, A. Mukherjee, P. Bhattacharjee	Journal of Control, Automation and Electrical Systems	2019, 30 (6), pp. 954-969
26	Development of a High-Strength Low-Carbon Steel with Reasonable Ductility through Thermal Cycling	Amir Raza Subhani, Dipak Kumar Mondal, Chandan Mondal, Himadri Roy, Joydeep Maity	Journal of Materials Engineering and Performance	2019, 28 (4), pp. 2192-2201
27	Development of carbon coated NiS ₂ as positive electrode material for high performance asymmetric supercapacitor	Souvik Ghosh, J. Sharath Kumar, Naresh Chandra Murmu, R. Sankar Ganesh, Hiroshi Inokawa, Tapas Kuila	Composites Part B: Engineering	2019, 177, article no. 107373
28	Direct observation of micro delamination in graphene oxide incorporated carbon fiber/epoxy composite via in-situ tensile test	Nitai Chandra Adak, Suman Chhetri, Satvik Sabarad, Himadri Roy, Naresh Chandra Murmu, Pranab Samanta, Tapas Kuila	Composites Science and Technology	2019, 177, pp. 57-65
29	Discrimination of 1- and 2-Propanol by Using the Transient Current Change of a Semiconducting ZnFe ₂ O ₄ Chemiresistor	Kalisadhan Mukherjee, Chinedu E. Ekuma, Yangyang Zhao, Abhishek Maikap, Sina Najmaei, Mona E. Zaghoul	CHEMPLUSCHEM	2019, 84 (4), pp. 387-391
30	Eco-friendly disposal of expired anti-tuberculosis drug isoniazid and its role in the protection of metal	Ashish K. Singh, Ajit K.Pandey, Priyabrata Banerjee, Sourav Kr. Saha, Bhawna Chugh, Sanjeeve Thakur, Balaram Pani, Pramila Chaubey, Gurmeet Singh	Journal of Environmental Chemical Engineering	2019, 7 (2), article no. 102971
31	Effect of Ion Diffusion in Cobalt Molybdenum Bimetallic Sulfide toward Electrocatalytic Water Splitting	Subhasis Shit, Wooree Jang, Saikat Bolar, Naresh Chandra Murmu,	ACS Applied Materials & Interfaces	2019, 11 (24), pp. 21634-21644

		Hyeyoung Koo, Tapas Kuila		
32	Effect of the solvent ratio (ethylene glycol/water) on the preparation of iron sulfide electrocatalyst and its activity towards overall water splitting	Subhasis Shit, Wooree Jang, Saikat Bolar, Naresh Chandra Murmu, Hyeyoung Koo, Tapas Kuila	ChemElectroChem	2019, 6 (12), pp. 3199-3208
33	Effect of stereochemical conformation into the corrosion inhibitive behaviour of double azomethine based Schiff bases on mild steel surface in 1 mol L ⁻¹ HCl medium: An experimental, density functional theory and molecular dynamics simulation study	Manilal Murmu, Sourav Kr. Saha, Naresh Chandra Murmu, Priyabrata Banerjee	Corrosion Science	2019, 146, pp. 134-151
34	Effect of thermal annealing on the physico-chemical and tribological performance of hydrophobic alkylated graphene sheets	Suprakash Samanta, Santosh Singh, Rashmi R. Sahoo	New Journal of Chemistry	2019, 43, pp. 2624-2639
35	Electrochemical Detection of H ₂ O ₂ Using Copper Oxide-Reduced Graphene Oxide Heterostructure	J. Sharath Kumar, Souvik Ghosh, Naresh Chandra Murmu, Nilrudra Mandal, Tapas Kuila	Journal of Nanoscience and Nanotechnology	2019, 19 (8), pp. 5295-5302
36	Electrodeposited SiC-graphene oxide composite in nickel matrix for improved tribological applications	Santosh Kumar Singh, Suprakash Samanta, Alok Kumar Das, Rashmi R. Sahoo	Surface Topography: Metrology and Properties	2019, 7 (3), article no. 035004
37	Estimation of dilution in laser cladding based on energy balance approach using regression analysis	Shitanshu Shekhar Chakraborty, Samik Dutta	Sādhanā	2019, 44, article no. 150 (1-6)
38	Ethylenediamine assisted functionalization of self-organized poly (d, l-lactide-co-glycolide) patterned surface to enhance cancer cell isolation	Namita Jaiswal, Abhiram Hens, Manosree Chatterjee, Nibedita Mahata, Nripen Chanda	Journal of Colloid and Interface Science	2019, 534, pp. 122-130
39	Evaluation of anti-corrosion performance of an expired semi synthetic antibiotic cefdinir for mild steel in 1 M HCl medium: An experimental and theoretical study	Ashish Kumar Singh, Bhawna Chugh, Sourav Kr. Saha, Priyabrata Banerjee, Eno E. Ebenso, Sanjeeve Thakur, Balaram Panie	Results in Physics	2019, 14, article no. 102383
40	Evaluation of mechanical and frictional properties of CuO added MgO/ZTA ceramics	Bipin Kumar Singh, Suprakash Samanta, Shibendu Shekhar Roy, Rashmi R Sahoo, Himadri Roy, Nilrudra Mandal	Materials Research Express	2019, 6 (12), article no. 125208
41	Evaluation of Wear Behaviour of Metal Injection Moulded Nickel Based Metal Matrix Composite	Veeresh Nayak Chinnathaypgal, Ramesh Motagondanahalli Rangarasaiah, Vijay	Silicon	2019, 11 (1), pp. 175–185

		Desai, Sudip Kumar Samanta		
42	Experimental and numerical investigation on the mechanical characteristics of polyethylenimine functionalized graphene oxide incorporated woven carbon fibre/epoxy composites	Nitai Chandra Adak, Suman Chhetri, Naresh Chandra Murmu, Pranab Samanta, Tapas Kuila, Joong Hee Lee	Composites Part B: Engineering	2019, 156, pp. 240-251
43	Experimentation modelling and optimization of electrohydrodynamic inkjet microfabrication approach: a Taguchi regression analysis	Amit Kumar Bal, Raju Das, Shibendu Shekhar Roy, Dakshina Ranjan Kisku, Naresh Chandra Murmu	Sādhanā	2019, 44:167
44	Function space formulation of the 3-noded distorted Timoshenko metric beam element	S. Manju, Somenath Mukherjee	Structural Engineering and Mechanics	2019, 69 (6), pp. 615-626
45	Gold nanoparticle-assisted enhancement in the anti-cancer properties of theaflavin against human ovarian cancer cells	Ritwik Maity, Manosree Chatterjee, Anmol Banerjee, Amlan Das, Raghwendra Mishra, Santasree Mazumder, Nripen Chanda	Materials Science and Engineering: C	2019, 104, article no. 109909
46	Hexanuclear Zn(II) and Mononuclear Cu(II) Complexes containing imino phenol ligands: Exploitation of their Catalytic and Biological Perspectives	Shyam Sundar Mondal, Manosree Chatterjee, Ranjay K. Tiwari, J.N. Behera, Nripen Chanda, Sourav Biswas, Tanmoy Kumar Saha	Applied Organometallic Chemistry	2019, 33 (8), article no. e5011
47	Hierarchical Cobalt Sulfide/Molybdenum Sulfide heterostructure as bifunctional electrocatalyst towards overall water splitting	Subhasis Shit, Suman Chhetri, Saikat Bolar, Naresh C. Murmu, Wooree Jang, Hyeyoung Koo, Tapas Kuila	ChemElectroChem	2019, 6 (2), pp. 430-438
48	High resolution numerical simulation of a shock-accelerated refrigerant-22 bubble	Abhishek Kundu, Sudipta De	Computers & Fluids	2019, 193, article no. 104289
49	Hydrophobic Reduced Graphene Oxide-Based Ni Coating for Improved Tribological Application	Santosh Singh, Suprakash Samanta, Alok Kumar Das, Rashmi R. Sahoo	Journal of Materials Engineering and Performance	2019, 28 (6), pp 3704-3713
50	Impact of fast and slow pyrolysis on the degradation of mixed plastic waste: Product yield analysis and their characterization	Rohit Kumar Singh, Biswajit Ruj, A.K. Sadhukhan, P. Gupta	Journal of the Energy Institute	2019, 92 (6), pp. 1647-1657
51	In situ growth of Co ₃ O ₄ nanoflakes on reduced graphene oxide-wrapped Ni-foam as high performance asymmetric supercapacitor	Shipra Raj, Suneel Kumar Srivastava, Pradip Kara, Poulomi Roy	Electrochimica Acta	2019, 302, pp. 327-337
52	In Situ Mn-Doping-Promoted Conversion of Co(OH) ₂ to Co ₃ O ₄ as an Active	Shipra Raj, Sengeni Anantharaj, Subrata Kundu, Poulomi Roy	ACS Sustainable Chemistry & Engineering	2019, 710, pp. 9690-9698

	Electrocatalyst for Oxygen Evolution Reaction			
53	Influence of curing condition on thermo-mechanical properties of fly ash reinforced epoxy composite	A. Pattanaik, M. Mukherjee, S.B. Mishra	Composites Part B: Engineering	2019, 176 (1), article no. 107301
54	Interaction of three categories of tyre waste during co-pyrolysis: Effect on product yield and quality	R.K. Singh, S. Mondal, Biswajit Ruj, A.K. Sadhukhana, P. Gupta	Journal of Analytical and Applied Pyrolysis	2019, 141, article no. 104618
55	Laser-Assisted Printed Flexible Sensors: A Review	Tao Han, Anindya Nag, Nasrin Afsarimanesh, Subhas Chandra Mukhopadhyay, Sudip Kundu, Yongzhao Xu	Sensors	2019, 19 (6), article no. 1462 (1-28)
56	Low pH treatment of starch industry effluent with bacteria from leaf debris for methane production	Pradip Kumar Chatterjee, Shubhaneel Neogi, Shouvik Saha, Byong, Hun Jeon, Apurba Dey	Water Environment Research	2019, 91 (5), pp. 377-385
57	Measurement of chip morphology and multi criteria optimization of turning parameters for machining of AISI 4340 steel using Y-ZTA cutting insert	B.K. Singh, H. Roy, B. Mondal, S.S. Roy, Nilrudra Mandal	Measurement	2019, 142, pp. 181-194
58	Mitigation of Blast Induced Acceleration using open cell natural rubber and Synthetic Foam	Inderpal Singh Sandhu, Murugan Thangadurai, Prashant S. Alegaonkar, D.R. Saroha	Defence Science Journal	2019, 69 (1), pp. 53-57
59	Modeling of Top Burr Formation in Micro-end Milling of Zr-based Bulk Metallic Glass	Debajyoti Ray, Asit Baran Puri, Naga Hanumaiah, Saurav Halder	J. Micro Nano-Manuf.	2019, 7(4), article no. 041004
60	n-alkylamino analogs of Vitamin K3: Electrochemical, DFT and anticancer activity of their oxidized and one electron reduced form	Dattatray Chadar, Priyabrata Banerjee, Sourav Kr. Saha. Sujit Bhand, Rajendra Patil, Sunita Salunke-Gawalia	Journal of Molecular Structure	2019, 1179, pp. 443-452
61	Nanolubricants dispersed with graphene and its derivatives: an assessment and review of the tribological performance	Gayatri Paul, Harish Hirani, Tapas Kuila, N.C. Murmu	Nanoscale	2019, 11, pp. 3458-3483

62	Optimization of Active Surface area of Flower like MoS ₂ using V-doping towards Enhanced Hydrogen Evolution Reaction in Acidic and Basic Medium	Saikat Bolar, Subhasis Shit, J. Sharath Kumar, Naresh Chandra Murmu, R. Sankar Ganesh, Hiroshi Inokawa, Tapas Kuila	Applied Catalysis B: Environmental	2019, 254, pp. 432-442
63	Optimization of Chemi-adsorption, EDLC, and Redox Capacitance Through Electro-precipitation Synthesis of Fe ₃ O ₄ /NiO@rGO/h-BN for the Development of Hybrid Supercapacitor	Sanjit Saha, Wooree Jang, Naresh C. Murmu, Hyeyoung Koo, Tapas Kuila	ChemistrySelect	2019, 4 (2), pp. 589-599
64	Polypyrrole nanoparticles-based soft actuator for artificial muscle applications	Ajahaar Khana, Khalid A. Alamry, Ravi Kant Jain	RSC Adv.	2019, 9 (68), pp. 39721-39734
65	PS-Sim: A framework for scalable data simulation and incentivization in participatory sensing-based smart city applications	Rajesh P. Barnwal, Nirnay Ghosh, Soumya K. Ghosh, Sajal K. Das	Pervasive and Mobile Computing	2019, 57, pp. 64-77
66	Reduction of CO ₂ by a masked two-coordinate cobalt(I) complex and characterization of a proposed oxodicobalt(II) intermediate	Lisa Roy, Malik H. Al-Afyouni, Daniel E. DeRosha, Bhaskar Mondal, Ida M. DiMuccid, Kyle M. Lancaster, Jason Shearer, Eckhard Billa, William W. Brennesse, Frank Neesef, Shengfa Ye, Patrick L. Holland	Chemical Science	2019, 10 (3), pp. 918-929
67	Removing toxic contaminants from groundwater by graphene oxide nanocomposite in a membrane module under response surface optimization	M. Pal, S. Chakraborty, J. Nayak, P. Pal	International Journal of Environmental Science and Technology	2019, 16 (8), pp. 4583-4594
68	Rheological study of alumina feedstock for a micro-powder injection moulding application	Sk Tanbir Islam, Sudip Kumar Samanta, Aditya Kumar Lohar, Asish Bandyopadhyay	Materials Research Express	2019, 6 (9), article no. 95204
69	Saliency based shape extraction of objects in unconstrained underwater environment	Nitin Kumar, H.K. Sardana, S.N. Shome	Multimedia Tools and Applications	June 2019, Volume 78, Issue 11, pp 15121-15139
70	Seed Drill Discharge Rate Variation Due to Varietal Differences Using an Automated Calibration Test Rig	Daanvir Karan Dhir, Pradeep Rajan, SR Verma	Ama-Agricultural Mechanization in Asia Africa and Latin America	2019, 50 (3), pp. 43-47
71	Selecting effective intrinsic mode functions of empirical mode decomposition and variational mode decomposition using dynamic time warping	Prem Shankar Kumar, Lakshmi Annamalai Kumaraswamidhas, Swarup Kumar Laha	Transactions of the Institute of Measurement and Control	2019, 41 (7), pp. 1923-1932

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72	Selection of Graphite Pencil Grades for the Design of Suitable Electrodes for Stacking Multiple Single-Inlet Paper-Pencil Fuel Cells	Ravi Kumar Arun, Vinay Gupta, Preeti Singh, Gautam Biswas, Nripen Chanda	ChemistrySelect	2019, 4 (1), pp. 152-159
73	Sensitive and selective in vitro recognition of biologically toxic As(III) by rhodamine based chemoreceptor	Suparna Paul, Samuzal Bhuyan, Subhra Kanti Mukhopadhyay, Naresh Chandra Murmu, Priyabrata Banerjee	ACS Sustainable Chem. Eng.	2019, 7 (16), pp. 13687-13697
74	Silicon-Based Sensors for Biomedical Applications: A Review	Yongzhao Xu, Xiduo Hu, Sudip Kundu, Anindya Nag, Nasrin Afsarimanesh, Samta Sapra, Subhas Chandra Mukhopadhyay, Tao Han	Sensors	2019, 19, article no. 2908
75	Silver and molybdenum disulfide nanoparticles synthesized in situ in dimethylformamide as dielectric for micro-electro discharge machining	Soumen Mandal, Rajulapati Vinod Kumar, Nagahanumaiah	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture	2019, 233 (5), pp. 1594-1599
76	Statistical modelling and optimization of clad characteristics in laser metal deposition of austenitic stainless steel	Piyush Pant, Dipankar Chatterjee, Titas Nandi, Sudip Kumar Samanta, Aditya Kumar Lohar, Anirban Changdar	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2019, 41:283
77	Studies on die filling of A356 Al alloy and development of a steering knuckle component using rheo pressure die casting system	Prosenjit Das, Bikash Bhuniya, Sudip K. Samanta, Pradip Dutta	Journal of Materials Processing Technology	2019, 271, pp. 293-311
78	Study on feet forces' distributions, energy consumption and dynamic stability measure of hexapod robot during crab walking	Abhijit Mahapatra, Shibendu Shekhar Roy, Dilip Kumar Pratihar	Applied Mathematical Modelling	2019, 65, pp. 717-744
79	Synergistic effect of Fe ₃ O ₄ anchored N-doped rGO hybrid on mechanical, thermal and electromagnetic shielding properties of epoxy composites	Suman Chhetri, Nitai Chandra Adak, Pranab Samanta, Naresh Chandra Murmu, Suneel Kumar Srivastav, Tapas Kuila	Composites Part B: Engineering	2019, 166, pp. 371-381
80	Synthesis of stable aqueous colloid of functionalized silver nanorod	Abha Singh, Siddhartha Samanta, Nirgaman Bage, Barnali Dasgupta Ghosh, Pradip Kar and Poulomi Roy	Functional Materials Letters	2019, 12 (5), article no. 1950076

81	Synthesis of Tri-functional Core-shell CuO@carbon Quantum Dots@carbon Hollow Nanospheres Heterostructure for Non-enzymatic H ₂ O ₂ Sensing and Overall Water Splitting Applications	J. Sharath Kumar, Saikat Bolar, Naresh Chandra Murmu, R. Sankar Ganesh, Hiroshi Inokawa, Amit Banerjee, Tapas Kuila	Electroanalysis	2019, 31 (11), pp. 2120-2129
82	Tailor-made synthesis of an melamine-based aminated hydrophobic polymer for selective adsorption of toxic organic pollutants: an initiative towards wastewater purification	Debanjan Dey, Naresh Chandra Murmu, Priyabrata Banerjee	RSC Advances	2019, 9 (13), pp. 7469-7478
83	The effect of an N-heterocyclic compound on corrosion inhibition of J55 steel in sweet corrosive medium	Ambrish Singh, K.R. Ansari, M.A. Quraishi, Savas Kaya, Priyabrata Banerjee	New Journal of Chemistry	2019, 43, pp. 6303-6313
84	The evolution of foil bearing technology	P.Samanta, N.C. Murmu, M.M. Khonsari	Tribology International	2019, 135, pp. 305-323
85	Thermal degradation of waste plastics under non-sweeping atmosphere: Part 1: Effect of temperature, product optimization, and degradation mechanism	R.K. Singh, Biswajit Ruj, A.K. Sadhukhan, P.Gupta	Journal of Environmental Management	2019, 239, pp. 395-406
86	Time-varying process model for intelligent prediction of strain and temperature in micro-turning process	Soumen Mandal, Aniruddha Pal, Nagahanumaiah	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture	2019, 233 (5), pp. 1626-1634
87	Toxic organic solvent adsorption by a hydrophobic covalent polymer	Debanjan Dey, Priyabrata Banerjee	New Journal of Chemistry	2019, 43, pp. 3769-3777
88	Triazole-modified chitosan: a biomacromolecule as a new environmentally benign corrosion inhibitor for carbon steel in a hydrochloric acid solution	Dheeraj Singh Chauhan, M.A. Quraishi, A.A. Sorour, Sourav Kr. Saha, Priyabrata Banerjee	RSC Advances	2019, 9, pp. 14990 -15003
89	Tribological behavior of dodecylamine functionalized graphene nanosheets dispersed engine oil nanolubricants	Gayatri Paul, Subhasis Shit, Harish Hirani, Tapas Kuila, N.C.Murmu	Tribology International	2019, 131, pp. 605-619
90	Tribological influences of CuO into 3Y-TZP ceramic composite in conformal contact	Subhrojyoti Mazumder, Om Prakash Kumar, Dinesh Kumar Kotnees, Nilrudra Mandal	Journal of Tribology	2019, 141, article no. 031606 (1-10)
91	Tribological investigation of MgO/Al ₂ O ₃ ceramic composite with the inclusion of nano CuO in dry abrasive wear test	Subhrojyoti Mazumder, Avinash Kumar, Bipin Kumar Singh, Himadri Roy, Nilrudra Mandal	Materials Research Express	2019, 6 (8), article no. 085086

92	Tribological property enhancement of 3Y-TZP ceramic by the combined effect of CaF ₂ and MgO phases	Subhrojyoti Mazumder, Bharat Bidhan Barad, Bijay Kumar Show, Nilrudra Mandal	Ceramics International	2019, 45 (10), pp. 13447-13455
93	Ultrafast, Highly Sensitive, and Selective Detection of p-Xylene at Room Temperature by Peptide-Hydrogel-Based Composite Material	Nilotpal Singha, Samya Neogi, Bapan Pramanik, Saurav Das, Antara Dasgupta, Ranajit Ghosh, Debapratim Das	ACS Applied Polymer Materials	2019, 1 (9), pp. 2267-2272
94	Water desalination using graphene oxide-embedded paper microfluidics	Ebenezer Olubunmi Ige, Ravi Kumar Arun Preeti Singh Manash Gope Rajnarayan Saha Nripen Chanda, Suman Chakraborty	Microfluidics and Nanofluidics	2019, 23, article no. 80
95	Weak interactions: The architect behind the structural diversity of coordination polymer	Ananta Kumar Ghosh, Abhijit Hazra, Amita Mondal, Priyabrata Banerjee	Inorganica Chimica Acta	2019, 488, pp. 86-119
96	Palmitic acid based environmentally benign corrosion inhibiting formulation useful during acid cleansing process in MSF desalination plants	Divya Bajpai Tripathy Manilal Murmu Priyabrata Banerjee Mumtaz Ahmad Quraishi	Desalination	Vol.472, 15 December 2019, 114128
97	Effect of Fe ₃ O ₄ -Decorated N-Doped Reduced Graphene Oxide Nanohybrid on the Anticorrosion Performance of Epoxy Composite Coating	Dr. Suman Chhetri Souvik Ghosh Dr. Pranab Samanta Dr. Naresh Chandra Murmu Dr. Tapas Kuila	ChemistrySelect	Vol.4, Issue 46 December 13, 2019 13446-13454
98	Bismuth-Doped Nickel Ferrite Nanoparticles for Room Temperature Memory Devices	M. Banerjee A. Mukherjee S. Chakrabarty S. Basu M. Pal	ACS Appl. Nano Mater.	2019, 2, 12, 7795–7802
99	Review on electron beam based additive manufacturing	Seema Negi, Athul Arun Nambolan, Sajjan Kapil, Prathamesh Shreekanth Joshi, Manivannan R., K.P. Karunakaran, Parag Bhargava	Rapid Prototyping Journal	2019 Vol.26 Issue 3 pp. 485-498
100	Interspecies microbial nexus facilitated methanation of polysaccharidic wastes	Shouvik Saha Byong-HunJeon Mayur B.Kurade Sanjay P.Govindwar Pradip K.Chatterjee Sang-Eun Oh Hyun-Seog Roh Sean S.Lee	Bioresource Technology	Vol.289, October 2019, 121638

101	Biodegradation of high concentration phenol using sugarcane bagasse immobilized <i>Candida tropicalis</i> PHB5 in a packed-bed column reactor	Bikram Basak Byong-Hun Jeon Mayur B. Kurade Ganesh D. Saratale Biswanath Bhunia Pradip K. Chatterjee Apurba Dey	Ecotoxicology and Environmental Safety	Vol.180, 30 September 2019, Pages 317-325
102	Fabrication of durable haemophobic surfaces on cast acrylic sheets using UV laser micromachining	Souvik Paul Saswata Mukhopadhyay Soumen Mandal Pankaj Agarwal Nripen Chanda	Micro & Nano Letters	Vol.14 Issue 11, 9 25 2019 pp.1175 - 1177
103	Sintering metal injection molding parts of tungsten-based steel using microwave and conventional heating methods	Veeresh Nayak C Ramesh M R Vijay Desai Sudip Kumar Samanta	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture	Vol.233 Issue: 11, 2019 pp.2138-2146
104	Modelling forward osmosis-nanofiltration integrated process for treatment and recirculation of leather industry wastewater	Parimal Pal Mounita Sardar Madhubonti Pal Sankha Chakraborty Jayato Nayak	Computers & Chemical Engineering	Vol.127, 4 August 2019, Pages 99-110
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