

Susmita Das

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94 papers	711 citations	13 h-index	21 g-index
117 ext. papers	879 ext. citations	2.4 avg, IF	4.94 L-index

#	Paper	IF	Citations
94	Effect of experimental parameters on photocatalytic degradation efficiency of TiO nanoparticles synthesized by electrochemical method towards Rhodamine B dye solution under natural sunlight.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	0
93	Glucose-mediated one-pot hydrothermal synthesis of hollow magnesium oxide-zinc oxide (MgO-ZnO) microspheres with enhanced natural sunlight photocatalytic activity.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	0
92	Proposed Prediction Framework for Improving the Accuracy of Path loss Models of WiMAX Network. <i>Wireless Personal Communications</i> , 2021 , 117, 1079-1101	1.9	1
91	Assessment of shade-unshade condition and subsequently pesticide treatment on first flush tea leaf metabolites through GC/MS based metabolomics approach. <i>Cogent Food and Agriculture</i> , 2021 , 7, 1930424	1.8	1
90	Volatile profiles of three Mentha species and the effect of plant growth regulators (PGRs) on the volatile organic compounds (VOCs) in Mentha spicata. <i>Journal of Herbs, Spices and Medicinal Plants</i> , 2021 , 27, 396-410	0.9	
89	GC-MS-Based Profiling of Non-polar Metabolites and Chemometric Study of Fruits of Capsicum Species and Landraces at Different Stages of Ripening. <i>Journal of Herbs, Spices and Medicinal Plants</i> , 2020 , 26, 126-147	0.9	4
88	Metabolite profiling and colon cancer protective activity of cone extract. <i>Natural Product Research</i> , 2020 , 34, 599-603	2.3	2
87	Phytochemical composition, β -glucuronidase inhibition, and antioxidant properties of two fractions of Piper betle leaf aqueous extract. <i>Journal of Food Biochemistry</i> , 2019 , 43, e13048	3.3	7
86	Profiling non-polar terpenes of rhizomes for distinguishing some Indian Curcuma species. <i>Journal of Applied Research on Medicinal and Aromatic Plants</i> , 2019 , 13, 100207	2.6	3
85	Hybrid approach for ECG signal enhancement using dictionary learning-based sparse representation. <i>IET Science, Measurement and Technology</i> , 2019 , 13, 381-391	1.5	4
84	Noise-resilient voltage and frequency synchronisation of an autonomous microgrid. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 189-200	2.5	12
83	Removal of toxic hydroquinone: Comparative studies on use of iron impregnated granular activated carbon as an adsorbent and catalyst. <i>Environmental Engineering Research</i> , 2019 , 24, 474-483	3.6	9
82	Electrocardiogram beat type dictionary based compressed sensing for telecardiology application. <i>Biomedical Signal Processing and Control</i> , 2019 , 47, 207-218	4.9	11
81	An overview of the synthesis of CuO-ZnO nanocomposite for environmental and other applications. <i>Nanotechnology Reviews</i> , 2018 , 7, 267-282	6.3	39
80	Spectrum occupancy prediction based on functional link artificial neural network (FLANN) in ISM band. <i>Neural Computing and Applications</i> , 2018 , 29, 1363-1376	4.8	8
79	An intelligent resource management scheme for SDF-based cooperative spectrum sensing in the presence of primary user emulation attack. <i>Computers and Electrical Engineering</i> , 2018 , 69, 555-571	4.3	2
78	Distributed voltage and frequency synchronisation control scheme for islanded inverter-based microgrid. <i>IET Smart Grid</i> , 2018 , 1, 48-56	2.7	24

77	Channel Models for Body Surface Communications in Ultra Wideband-Based Wireless Body Area Networks. <i>Wireless Personal Communications</i> , 2018 , 100, 1263-1275	1.9	1
76	Estimation of Path Loss Model for a 2.65 GHz Mobile WiMAX Network Deployed in a Sub-Urban Environment with Regression Techniques. <i>Wireless Personal Communications</i> , 2018 , 99, 283-297	1.9	2
75	Communication Delay Analysis of Consensus-based Secondary Control of Islanded Microgrid 2018 ,		2
74	Multiple narrowband interference mitigation using hybrid Hermite pulses for body surface to external communications in UWB body area networks. <i>Wireless Networks</i> , 2017 , 23, 387-402	2.5	7
73	An efficient wavelet-based automated R-peaks detection method using Hilbert transform. <i>Biocybernetics and Biomedical Engineering</i> , 2017 , 37, 566-577	5.7	4 ¹
72	Adaptive resource allocation scheme for cognitive radio vehicular ad-hoc network in the presence of primary user emulation attack. <i>IET Networks</i> , 2017 , 6, 5-13	2.8	12
71	An intelligent approach for resource allocation in the cognitive radio vehicular ad hoc network. <i>Transactions on Emerging Telecommunications Technologies</i> , 2017 , 28, e3159	1.9	2
70	Metabolite profiling, antioxidant activity, and glycosidase inhibition property of the mesocarp tissue extracts of sugar date palm [Phoenix sylvestris (L.) Roxb.] fruits. <i>International Journal of Food Properties</i> , 2017 , 20, 2982-2993	3	9
69	Minimized SER and QOS Based Power Allocation Strategies for Multi HDAF Relay Cooperative Network. <i>Wireless Personal Communications</i> , 2017 , 96, 779-798	1.9	0
68	An improved EMD based ECG denoising method using adaptive switching mean filter 2017 ,		6
67	A novel approach for energy-efficient resource allocation in double threshold-based cognitive radio network. <i>International Journal of Communication Systems</i> , 2017 , 30, e3198	1.7	6
66	Performance study of hybrid decode&lify&forward (HDAF) relaying scheme for physical layer security in wireless cooperative network. <i>International Journal of Communication Systems</i> , 2017 , 30, e3182 ¹⁷	1.7	3
65	Synthesis and characterization of ZnO/CuO nanocomposite by electrochemical method. <i>Materials Science in Semiconductor Processing</i> , 2017 , 57, 173-177	4.3	28
64	Reliable communication in UWB body area networks using multiple hybrid relays. <i>Wireless Networks</i> , 2017 , 23, 2555-2570	2.5	3
63	A novel approach for cognitive radio application in 2.4-GHz ISM band. <i>International Journal of Electronics</i> , 2017 , 104, 792-804	1.2	5
62	Consensus-based voltage and frequency restoration scheme for inertia-less islanded microgrid with communication latency 2017 ,		4
61	Voltage and frequency synchronization of a low voltage inverter based microgrid 2017 ,		3
60	Hybrid Relaying in Ultra-wideband Body Area Networks. <i>Wireless Personal Communications</i> , 2016 , 86, 435-449	1.9	3

59	Synthesis and characterization of copper succinate and copper oxide nanoparticles by electrochemical treatment: Optimization by Taguchi robust analysis. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 1322-1327	2.3	3
58	Multi-relay cooperative body surface communications in ultra-wideband body area networks. <i>Computers and Electrical Engineering</i> , 2016 , 50, 111-124	4.3	7
57	Maximized Channel Capacity Based Power Allocation Technique for Multi Relay Hybrid Decode-Amplify-Forward Cooperative Network. <i>Wireless Personal Communications</i> , 2016 , 87, 663-678	1.9	4
56	Optimal resource allocation for soft decision fusion-based cooperative spectrum sensing in cognitive radio networks. <i>Computers and Electrical Engineering</i> , 2016 , 52, 362-378	4.3	4
55	Sansevieria roxburghiana Schult. & Schult. F. (Family: Asparagaceae) Attenuates Type 2 Diabetes and Its Associated Cardiomyopathy. <i>PLoS ONE</i> , 2016 , 11, e0167131	3.7	12
54	Narrowband interference mitigation in body surface to external communication in UWB body area networks using first-order Hermite pulse. <i>International Journal of Electronics</i> , 2016 , 103, 985-1001	1.2	6
53	Performance of amplify forward and decode forward cooperative strategies for body surface communications in UWB Body Area Networks. <i>International Journal of Communication Systems</i> , 2016 , 29, 916-928	1.7	2
52	Poisson point process based performance analysis of D2D enabled heterogeneous wireless network 2016 ,		1
51	Synthesis and Characterization of ZnO/MgO Nanocomposite by Co-precipitation Method. <i>Smart Science</i> , 2016 , 4, 190-195	1.5	7
50	Recent Advances in Fabrication of Photocatalytic Micro-Reactor. <i>Materials Science Forum</i> , 2016 , 855, 156-167	0.4	1
49	Metabolomic and chemometric study of Achras sapota L. fruit extracts for identification of metabolites contributing to the inhibition of α -amylase and α -glucosidase. <i>European Food Research and Technology</i> , 2016 , 242, 733-743	3.4	20
48	Microfluidic-based photocatalytic microreactor for environmental application: a review of fabrication substrates and techniques, and operating parameters. <i>Photochemical and Photobiological Sciences</i> , 2016 , 15, 714-30	4.2	59
47	Recent trends in multiuser detection techniques for SDMA/OFDM communication system. <i>Physical Communication</i> , 2016 , 20, 93-108	2.2	18
46	Antioxidant, anti-acetylcholinesterase and anti-glycosidase properties of three species of Swertia, their xanthenes and amarogentin: A comparative study. <i>Pharmacognosy Journal</i> , 2015 , 7, 117-123	1.6	10
45	Copper succinate nanoparticles synthesis by electrochemical method: Effect of pH on structural, thermal and textural properties. <i>Materials Letters</i> , 2015 , 150, 130-134	3.3	13
44	Hierarchical Nanostructured ZnO-CuO Nanocomposite and its Photocatalytic Activity. <i>Journal of Nano Research</i> , 2015 , 35, 21-26	1	22
43	A Survey on Spectrum Occupancy Measurement for Cognitive Radio. <i>Wireless Personal Communications</i> , 2015 , 85, 2581-2598	1.9	19
42	Hybrid decode-amplify-forward (HDAF) scheme in distributed Alamouti-coded cooperative network. <i>International Journal of Electronics</i> , 2015 , 102, 725-741	1.2	8

41	Development of an empirical path loss model for a deployed 2.63GHz WiMAX network in a rural environment 2015 ,		1
40	Multiple Narrowband Interference Cancellation in High Data Rate UWB Body Area Networks using Hybrid Hermite Pulses. <i>International Journal of Wireless Information Networks</i> , 2015 , 22, 252-261	1.9	1
39	Hybrid relaying for sensor to external communication in multi relay body area networks 2015 ,		1
38	Performance enhancement of MIMO/UWB based wireless Body area network 2015 ,		1
37	Performance analysis of hybrid decode-amplify-forward (HDAF) relaying for improving security in cooperative wireless network 2015 ,		3
36	A cooperative spectrum sensing scheme using multiobjective hybrid IWO/PSO algorithm in cognitive radio networks 2014 ,		1
35	A co-operative effect of closely spaced intruding objects puncturing into a soft solid. <i>Soft Matter</i> , 2014 , 10, 6059-67	3.6	6
34	Performance analysis of patient monitoring system under different routing algorithm 2014 ,		4
33	Minimum symbol error rate multiuser detection using an effective invasive weed optimization for MIMO/SDMA-OFDM system. <i>International Journal of Communication Systems</i> , 2014 , 27, 3837-3854	1.7	10
32	Interference-aware power allocation in soft decision fusion (SDF) based cooperative spectrum sensing 2014 ,		2
31	Comparative performance evaluation of a new dynamic-double-threshold energy detection scheme with basic spectrum sensing techniques 2014 ,		1
30	Power allocation for AF cooperative relaying using particle swarm optimization 2014 ,		2
29	Interference Mitigation in Wireless Body Area Networks Using Modified and Modulated MHP. <i>Wireless Personal Communications</i> , 2014 , 77, 1343-1361	1.9	12
28	Multiuser Detection in SDMA-OFDM Wireless Communication System Using Complex Multilayer Perceptron Neural Network. <i>Wireless Personal Communications</i> , 2014 , 77, 21-39	1.9	14
27	Neural network-based adaptive multiuser detection schemes in SDMA-OFDM system for wireless application. <i>Neural Computing and Applications</i> , 2013 , 23, 1071-1082	4.8	15
26	Performance study of hybrid decode-amplify-forward (HDAF) scheme in distributed Alamouti coded cooperative network 2013 ,		1
25	Eigenvalue detection based method to mitigate PUEA in cognitive radio networks 2013 ,		1
24	Efficient complex radial basis function model for multiuser detection in a space division multiple access/multiple-input multiple-output orthogonal frequency division multiplexing system. <i>IET Communications</i> , 2013 , 7, 1394-1404	1.3	12

23	Neural network-based multiuser detection for SDMA-OFDM system over IEEE 802.11n indoor wireless local area network channel models. <i>International Journal of Electronics</i> , 2013 , 100, 1332-1347	1.2	12
22	Study of channel capacity for hybrid decode-amplify-forward (HDAF) scheme in distributed Alamouti coded cooperative network 2013 ,		1
21	MHP for narrowband interference mitigation in high data rate UWB body area networks 2013 ,		2
20	Evaluation of Angiotensin I-Converting Enzyme (ACE) inhibitory potential of some underutilized indigenous fruits of West Bengal using an in vitro model. <i>Fruits</i> , 2013 , 68, 499-506	0.3	12
19	Performance of fuzzy logic-based slope tuning of neural equaliser for digital communication channel. <i>Neural Computing and Applications</i> , 2012 , 21, 423-432	4.8	3
18	Comparison of neural based multiuser detection techniques for SDMA based wireless communication system 2012 ,		4
17	In Vitro Inhibition of Key Enzymes Related to Diabetes by the Aqueous Extracts of Some Fruits of West Bengal, India. <i>Current Nutrition and Food Science</i> , 2012 , 8, 19-24	0.7	19
16	A novel concept of embedding orthogonal basis function expansion block in a neural equalizer structure for digital communication channel. <i>Neural Computing and Applications</i> , 2012 , 21, 481-488	4.8	3
15	RBF network based receiver design for multiuser detection in SDMA-OFDM system 2012 ,		3
14	Puncturing of soft gels with multi-tip needles. <i>Journal of Materials Science</i> , 2011 , 46, 2895-2904	4.3	17
13	Performance Study of Discrete Wavelet Packet Based MB-OFDM System for Short Range Indoor Wireless Environment 2011 ,		3
12	Neural network based multiuser detection techniques in SDMA-OFDM system 2011 ,		5
11	A comparison between MLP NN and RBF NN techniques for the detection of stator inter-turn fault of an induction motor 2010 ,		7
10	Induction motor stator inter-turn fault detection using wavelet transform technique 2010 ,		5
9	Interference mitigation techniques in transmitted reference UWB system used in WPANs NLOS channel environment 2010 ,		3
8	Interference Cancellation Schemes in UWB Systems Used in Wireless Personal Area Network based on Wavelet based Pulse Spectral shaping and Transmitted Reference UWB using AWGN Channel Model. <i>International Journal of Computer Applications</i> , 2010 , 2, 88-92	1.1	11
7	A Novel Transform Domain Based Hybrid Recurrent Neural Equaliser for Digital Communication Channel. <i>Lecture Notes in Electrical Engineering</i> , 2010 , 129-139	0.2	
6	Time Domain Equalization Technique Using RAKE-MMSE Receivers for High Data Rate UWB Communication System 2009 ,		3

5	RAKE-MMSE Time Domain Equalizer for High Data Rate UWB Communication System 2009 ,	5
4	A comparative study of pulse shaping functions for ICI power reduction in OFDM system 2008 ,	6
3	Smart antenna design for wireless communication using adaptive beam-forming approach 2008 ,	13
2	Design of Adaptive Channel Equaliser on Neural Framework Using Fuzzy Logic Based Multilevel Sigmoid Slope Adaptation 2008 ,	1
1	Wavelet Sub-bands Features-based ECG Signal Quality Assessment Scheme for Computer-aided Monitoring System. <i>IETE Journal of Research</i> ,1-10	0.9 1