

Zia Ur Rahman Muhammad

List of Publications by Year in descending order

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119
papers

3,074
citations

159358

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182168

51
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127
all docs

127
docs citations

127
times ranked

3954
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectrum Sensing and Allocation Strategy for IoT Devices Using Continuous-Time Markov Chain-Based Game Theory Model. , 2022, 6, 1-4.		4
2	A Multi-Level Sensor-Based Spinal Cord Disorder Classification Model for Patient Wellness and Remote Monitoring. IEEE Sensors Journal, 2021, 21, 14253-14262.	2.4	7
3	Infrared Monitoring of Oxygenation Process Generated by Robotic Verticalization in Bedridden People. IEEE Sensors Journal, 2021, 21, 14426-14433.	2.4	4
4	Value added usage of granular steel slag and milled glass in concrete production. Journal of Engineering Research, 2021, 9, .	0.4	5
5	Noise cancellation in brain waves using a new diffusion normalized least power based algorithm for brain computer interface applications. Measurement: Sensors, 2021, 14, 100038.	1.3	1
6	Adaptive Exon Prediction for Disease Identification using Higher Order Algorithms. , 2021, , .		0
7	Optoelectronic and Nanosensors Detection Systems: A Review. IEEE Sensors Journal, 2021, 21, 12645-12653.	2.4	7
8	A constant phase impedance sensor for measuring conducting liquid level. ISA Transactions, 2021, 115, 250-258.	3.1	5
9	A Collateral Sensor Data Sharing Framework for Decentralized Healthcare Systems. IEEE Sensors Journal, 2021, 21, 27848-27857.	2.4	10
10	Sputtered Mg _{100-x} Zn _x (0 ≤ x ≤ 100) systems as anode materials for a biodegradable battery aimed for transient bioelectronics. Electrochimica Acta, 2020, 329, 135129.	2.6	14
11	An Efficient optimal threshold-based segmentation and classification model for multi-level spinal cord injury detection. , 2020, , .		7
12	An Efficient Multi-Modal Biometric Sensing and Authentication Framework for Distributed Applications. IEEE Sensors Journal, 2020, 20, 15014-15025.	2.4	18
13	Energy Detection for Spectrum Sensing in Medical Telemetry Networks using Modified NLMS algorithm. , 2020, , .		10
14	A Hybrid CNN-Based Segmentation and Boosting Classifier for Real Time Sensor Spinal Cord Injury Data. IEEE Sensors Journal, 2020, 20, 10092-10101.	2.4	40
15	Energy Detection in Medical Telemetry Systems using Logarithmic Adaptive Algorithm. SSRG International Journal of Engineering Trends and Technology, 2020, 68, 49-56.	0.3	1
16	Spectrum Sensing using NMLMF algorithm in Cognitive Radio Networks for Health Care Monitoring Applications. International Journal of Advanced Trends in Computer Science and Engineering, 2020, 9, 7837-7843.	0.6	1
17	Artifact Elimination in Thoracic electrical bioimpedance signals using new Normalized Adaptive Filters. International Journal of Emerging Trends in Engineering Research, 2020, 8, 5376-5383.	0.7	7
18	DESIGN OF 16 ELEMENT RECTANGULAR PATCH ANTENNA ARRAY FOR 5G APPLICATIONS. Journal of Critical Reviews, 2020, 7, .	0.7	1

#	ARTICLE	IF	CITATIONS
19	A Real Time Multimedia Cloud Security Method Using Three Phase Multi User Modal for Palm Feature Extraction. <i>Journal of Advanced Research in Dynamical and Control Systems</i> , 2020, 12, 707-713.	0.3	0
20	An Efficient Multi-Mode Three Phase Biometric Data Security Framework For Cloud Computing-Based Servers. <i>SSRG International Journal of Engineering Trends and Technology</i> , 2020, 68, 10-17.	0.3	0
21	New Exon Prediction Techniques Using Adaptive Signal Processing Algorithms for Genomic Analysis. <i>IEEE Access</i> , 2019, 7, 80800-80812.	2.6	11
22	Efficient and Secure Pairing-Free Certificateless Aggregate Signature Scheme for Healthcare Wireless Medical Sensor Networks. <i>IEEE Internet of Things Journal</i> , 2019, 6, 9064-9075.	5.5	83
23	Combinatorial Development and In Vitro Characterization of the Quaternary Zrâ€“Tiâ€“Xâ€“Y (Xâ€“Yâ€“=â€“Cuâ€“Ag/Coâ€“Ni) Metallic Glass for Prospective Bioimplants. <i>Advanced Engineering Materials</i> , 2019, 21, 1900726.		13
24	Neolithic millet farmers contributed to the permanent settlement of the Tibetan Plateau by adopting barley agriculture. <i>National Science Review</i> , 2019, 6, 1005-1013.	4.6	55
25	Model Development and Exergy Analysis of a Microreactor for the Steam Methane Reforming Process in a CFD Environment. <i>Entropy</i> , 2019, 21, 399.	1.1	7
26	Fast and Accurate Feature Extraction-Based Segmentation Framework for Spinal Cord Injury Severity Classification. <i>IEEE Access</i> , 2019, 7, 46092-46103.	2.6	36
27	TiO ₂ hollow spheres with separated Au and RuO ₂ co-catalysts for efficient photocatalytic water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13221-13231.	3.8	33
28	Controlling corrosion kinetics of magnesium alloys by electrochemical anodization and investigation of film mechanical properties. <i>Applied Surface Science</i> , 2019, 484, 906-916.	3.1	14
29	Microstructural evolution and intermetallic formation in Zn-Mg hybrids processed by High-Pressure Torsion. <i>Philosophical Magazine</i> , 2019, 99, 557-584.	0.7	48
30	Efficient Pairing-Free Identity-Based ADS-B Authentication Scheme With Batch Verification. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019, 55, 2473-2486.	2.6	28
31	Functionalized graphene oxide coating on Ti6Al4V alloy for improved biocompatibility and corrosion resistance. <i>Materials Science and Engineering C</i> , 2019, 94, 920-928.	3.8	52
32	Identification of four hub genes associated with adrenocortical carcinoma progression by WGCNA. <i>PeerJ</i> , 2019, 7, e6555.	0.9	36
33	Artifact Elimination in Cardiac Signals Using through Circular Leaky Adaptive Algorithms for Remote Patient Care Monitoring. <i>Indian Journal of Public Health Research and Development</i> , 2019, 10, 2350.	0.1	7
34	Adaptive Signal Enhancement in clinical cardiac care Systems Using Normalized Median LMS Variants. <i>Indian Journal of Public Health Research and Development</i> , 2019, 10, 441.	0.1	1
35	Artifact Elimination in Impedance Cardiography using Gradient based Adaptive Signal Enhancement Techniques. <i>International Journal of Recent Technology and Engineering</i> , 2019, 8, 598-606.	0.2	5
36	Adaptive Noise Cancellation Techniques for Impedance Cardiography Signal Analysis. <i>International Journal of Innovative Technology and Exploring Engineering</i> , 2019, 8, 122-130.	0.2	4

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37	Synthesis of Hollow Mesoporous TiO ₂ Microspheres with Single and Double Au Nanoparticle Layers for Enhanced Visible-Light Photocatalysis. Chemistry - an Asian Journal, 2018, 13, 432-439.	1.7	21
38	Cloud-based adaptive exon prediction for DNA analysis. Healthcare Technology Letters, 2018, 5, 25-30.	1.9	13
39	An insight into the effect of buffer layer on the electrochemical performance of MgF ₂ coated magnesium alloy ZK60. Surface and Coatings Technology, 2018, 344, 514-521.	2.2	18
40	Recent Advancements in Bulk Metallic Glasses and Their Applications: A Review. Critical Reviews in Solid State and Materials Sciences, 2018, 43, 233-268.	6.8	170
41	Synthesis of graphene via ultra-sonic exfoliation of graphite oxide and its electrochemical characterization. Materials Chemistry and Physics, 2018, 206, 7-11.	2.0	36
42	Efficient Adaptive Exon Prediction for DNA study using Proportionate LMS Variants. International Journal of Engineering and Technology(UAE), 2018, 7, 116.	0.2	1
43	Efficient adaptive noise cancellation techniques in an IOT Enabled Telecardiology System. International Journal of Engineering and Technology(UAE), 2018, 7, 74.	0.2	11
44	Ultra-Wide-Band Band-Pass Filters Using Plasmonic MIM Waveguide-Based Ring Resonators. IEEE Photonics Technology Letters, 2018, 30, 1715-1718.	1.3	25
45	Sign Regressor based Normalized Adaptive Filters for Speech Enhancement Applications. International Journal of Engineering and Technology(UAE), 2018, 7, 79.	0.2	1
46	Electrochemical characterization and thermodynamic tendency of β -Lactoglobulin adsorption on 3D printed stainless steel. Journal of Industrial and Engineering Chemistry, 2018, 65, 180-187.	2.9	12
47	Efficient Pairing-Free Certificateless Authentication Scheme With Batch Verification for Vehicular Ad-Hoc Networks. IEEE Access, 2018, 6, 31808-31819.	2.6	70
48	Nanoflower like SnO ₂ -TiO ₂ nanotubes composite photoelectrode for efficient photocathodic protection of 304 stainless steel. Applied Surface Science, 2018, 457, 516-521.	3.1	52
49	Novel Logarithmic Reference Free Adaptive Signal Enhancers for ECG Analysis of Wireless Cardiac Care Monitoring Systems. IEEE Access, 2018, 6, 46382-46395.	2.6	24
50	An Efficient Kalman Noise Canceller for Cardiac Signal Analysis in Modern Telecardiology Systems. IEEE Access, 2018, 6, 34616-34630.	2.6	25
51	Novel Segmentation Technique for Synthetic Aperture Radar Target Tracking using Hybrid PSO Method. International Journal of Engineering and Technology(UAE), 2018, 7, 95.	0.2	0
52	In situ growth of single-crystal TiO ₂ nanorod arrays on Ti substrate: Controllable synthesis and photoelectro-chemical water splitting. Nano Research, 2017, 10, 1021-1032.	5.8	20
53	Preparation of Gold Shells on Hollow Mesoporous Silica Nanospheres and Application to Photothermal-Chemotherapy. ChemistrySelect, 2017, 2, 3969-3975.	0.7	8
54	Side Lobe Suppression in NC-OFDM Systems Using Variable Cancellation Basis Function. IEEE Access, 2017, 5, 9415-9421.	2.6	13

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55	Hollow hematite single crystals deposited with ultra-thin Al ₂ O ₃ by atom layer deposition for improved photoelectrochemical performance. Dalton Transactions, 2017, 46, 10635-10640.	1.6	7
56	The effects of parametric changes in electropolishing process on surface properties of 316L stainless steel. Applied Surface Science, 2017, 410, 432-444.	3.1	46
57	Preparation of hollow mesoporous silica nanospheres: controllable template synthesis and their application in drug delivery. New Journal of Chemistry, 2017, 41, 14122-14129.	1.4	31
58	A New Plasmonic Broadband Branch-Line Coupler for Nanoscale Wireless Links. IEEE Photonics Technology Letters, 2017, 29, 1568-1571.	1.3	7
59	3D hierarchical WO ₃ grown on TiO ₂ nanotube arrays and their photoelectrochemical performance for water splitting. Journal of Alloys and Compounds, 2017, 695, 2154-2159.	2.8	22
60	Cardiac signal enhancement using normalised variable step algorithm for remote healthcare monitoring systems. International Journal of Medical Engineering and Informatics, 2017, 9, 145.	0.2	9
61	Novel Adaptive Exon Predictor for DNA Analysis Using Singular Value Decomposition. International Journal on Measurement Technologies and Instrumentation Engineering, 2017, 6, 22-32.	0.3	0
62	Efficient Adaptive Filtering Techniques for Thoracic Electrical Bio-Impedance Analysis in Health Care Systems. Journal of Medical Imaging and Health Informatics, 2017, 7, 1126-1138.	0.2	14
63	INFLUENCE OF GLASS POWDER AND STEEL SLAG ON PROPERTIES OF CONCRETE: A REVIEW. Civil Engineering Journal, 2017, 26, 386-393.	0.1	2
64	Stability Control Structure of Hovercraft Prototype Utilising PID Controller. Bulletin of Electrical Engineering and Informatics, 2017, 6, 348-350.	0.6	1
65	Surface characterization and cytotoxicity analysis of plasma sprayed coatings on titanium alloys. Materials Science and Engineering C, 2016, 67, 675-683.	3.8	39
66	Liquid-solid contact triboelectrification and its use in self-powered nanosensor for detecting organics in water. Nano Energy, 2016, 30, 321-329.	8.2	81
67	Paper-based triboelectric nanogenerators and their application in self-powered anticorrosion and antifouling. Journal of Materials Chemistry A, 2016, 4, 18022-18030.	5.2	84
68	Process techniques for human thoracic electrical bio-impedance signal in remote healthcare systems. Healthcare Technology Letters, 2016, 3, 124-128.	1.9	2
69	Baseline wander removal in cardiac signals using Variable Step Size Adaptive Noise Cancellers. , 2016, , .		3
70	On Utilizing Static Courier Nodes to Achieve Energy Efficiency with Depth Based Routing for Underwater Wireless Sensor Networks. , 2016, , .		2
71	Recent progress in red semiconductor photocatalysts for solar energy conversion and utilization. Nanotechnology Reviews, 2016, 5, .	2.6	12
72	Investigation of the Electrical Characteristics on Measurement Frequency of a Thin-Film Ceramic Humidity Sensor. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 694-702.	2.4	43

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73	Electrochemical & osteoblast adhesion study of engineered TiO ₂ nanotubular surfaces on titanium alloys. <i>Materials Science and Engineering C</i> , 2016, 58, 160-168.	3.8	30
74	Double Technique for Improving Ultrasound Medical Images. <i>Journal of Medical Imaging and Health Informatics</i> , 2016, 6, 667-675.	0.2	5
75	Removal of Artifacts from Electrocardiogram Using Efficient Dead Zone Leaky LMS Adaptive Algorithm. <i>Smart Innovation, Systems and Technologies</i> , 2016, , 619-630.	0.5	1
76	Efficient Electrocardiogram Signal Enhancement Techniques Using Block Processed Noise Cancelers. <i>Journal of Medical Imaging and Health Informatics</i> , 2016, 6, 739-745.	0.2	1
77	Efficient Speckle Noise Reduction Techniques for Synthetic Aperture Radars in Remote Sensing Applications. <i>International Review of Aerospace Engineering</i> , 2016, 9, 114.	0.2	0
78	Efficient Cardiac Signal Enhancement Techniques Based on Variable Step Size and Data Normalized Hybrid Signed Adaptive Algorithms. <i>International Review on Computers and Software</i> , 2016, 11, 872.	0.1	1
79	Preparation and characterization of magnetic nanocomposite catalysts with double Au nanoparticle layers. <i>RSC Advances</i> , 2015, 5, 99697-99705.	1.7	10
80	Electrochemical characterization and in-vitro bio-assessment of AZ31B and AZ91E alloys as biodegradable implant materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 217.	1.7	23
81	Microsensors and energy harvesting for thermotherapy: Design and characterization. , 2015, , .		1
82	Efficient block processing of long duration biotelemetric brain data for health care monitoring. <i>Review of Scientific Instruments</i> , 2015, 86, 035003.	0.6	12
83	Surface characterization and cytotoxicity response of biodegradable magnesium alloys. <i>Materials Science and Engineering C</i> , 2015, 49, 761-768.	3.8	55
84	A Novel Solâ€“Gel Thin-Film Constant Phase Sensor for High Humidity Measurement in the Range of 50%â€“100% RH. <i>IEEE Sensors Journal</i> , 2015, 15, 2370-2376.	2.4	18
85	The peroxidase/catalase-like activities of MFe ₂ O ₄ (M=Mg, Ni, Cu) MNPs and their application in colorimetric biosensing of glucose. <i>Biosensors and Bioelectronics</i> , 2015, 63, 384-391.	5.3	183
86	Preparation and characterization of magnetic gold shells using different sizes of gold nanoseeds and their corresponding effects on catalysis. <i>RSC Advances</i> , 2014, 4, 5012.	1.7	11
87	Sensitive enantioanalysis of Î²-blockers via fieldâ€“amplified sample injection combined with water removal in microemulsion electrokinetic chromatography. <i>Electrophoresis</i> , 2014, 35, 2772-2777.	1.3	6
88	A Digital Hygrometer for Trace Moisture Measurement. <i>IEEE Transactions on Industrial Electronics</i> , 2014, 61, 5599-5605.	5.2	52
89	Influence of Electropolishing and Magneto-electropolishing on Corrosion and Biocompatibility of Titanium Implants. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 3907-3915.	1.2	31
90	In situ preparation of core-satellites nanostructural magnetic-Au NPs composite for catalytic degradation of organic contaminants. <i>Chemical Engineering Journal</i> , 2014, 254, 514-523.	6.6	36

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91	An efficient cardiac signal enhancement using time-frequency realization of leaky adaptive noise cancelers for remote health monitoring systems. Measurement: Journal of the International Measurement Confederation, 2013, 46, 3815-3835.	2.5	30
92	Efficient Signal Conditioning Techniques for Brain Activity in Remote Health Monitoring Network. IEEE Sensors Journal, 2013, 13, 3276-3283.	2.4	42
93	Current status, barriers and developments in biohydrogen production by microalgae. Renewable and Sustainable Energy Reviews, 2013, 22, 571-579.	8.2	88
94	Mesostructured multifunctional magnetic nanocomposites for potential applications. Chemical Engineering Journal, 2013, 222, 382-390.	6.6	17
95	In Situ Synthesis of MIL-100(Fe) in the Capillary Column for Capillary Electrochromatographic Separation of Small Organic Molecules. Analytical Chemistry, 2013, 85, 11369-11375.	3.2	65
96	Adaptive Powerline Interference Removal from Cardiac Signals Using Leaky Based Normalized Higher Order Filtering Techniques. , 2013, , .		5
97	Protein Adsorption on Citrate Modified Magnetic Nanoparticles. Journal of Nanoscience and Nanotechnology, 2012, 12, 2598-2606.	0.9	17
98	A new on-line concentration method of cationic molecules in capillary electrophoresis by a hyphenated micelle to solvent stacking coupling with large amount sample electrokinetic stacking injection. Journal of Chromatography A, 2012, 1265, 176-180.	1.8	20
99	A Non-Linearities Based Noise Canceler for Cardiac Signal Enhancement in Wireless Health Care Monitoring. , 2012, , .		2
100	Graphene oxide-Fe ₃ O ₄ magnetic nanocomposites with peroxidase-like activity for colorimetric detection of glucose. Nanoscale, 2012, 4, 3969.	2.8	477
101	Efficient and Simplified Adaptive Noise Cancelers for ECG Sensor Based Remote Health Monitoring. IEEE Sensors Journal, 2012, 12, 566-573.	2.4	76
102	NMR, multi-spectroscopic and molecular modeling approach to investigate the complexes between C.I. Acid Orange 7 and human serum albumin in vitro. Dyes and Pigments, 2012, 92, 1100-1107.	2.0	31
103	Stationary and non-stationary noise removal from cardiac signals using a Constrained Stability Least Mean Square algorithm. , 2011, , .		4
104	A low complex adaptive algorithm for antenna beam steering. , 2011, , .		6
105	Efficient sign based normalized adaptive filtering techniques for cancelation of artifacts in ECG signals: Application to wireless biotelemetry. Signal Processing, 2011, 91, 225-239.	2.1	109
106	Preparation of Guanidine Group Functionalized Magnetic Nanoparticles and the Application in Preconcentration and Separation of Acidic Protein. Journal of Nanoscience and Nanotechnology, 2011, 11, 10387-10395.	0.9	17
107	Cancellation of Artifacts in ECG Signals Using Block Adaptive Filtering Techniques. Advances in Experimental Medicine and Biology, 2011, 696, 505-513.	0.8	4
108	Baseline wander and Power line interference elimination from Cardiac signals using Error Nonlinearity LMS algorithm. , 2010, , .		10

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109	Adaptive noise removal in the ECG using the Block LMS algorithm. , 2009, , .		9
110	Cancellation of artifacts in ECG Signals using sign based normalized adaptive filtering technique. , 2009, , .		6
111	Noise cancellation in ECG signals using normalized Sign-Sign LMS algorithm. , 2009, , .		7
112	Denoising ECG Signals Using Transform Domain Adaptive Filtering Technique. , 2009, , .		3
113	An Efficient Noise Cancellation Technique to Remove Noise from the ECG Signal Using Normalized Signed Regressor LMS Algorithm. , 2009, , .		22
114	Fast and robust wavelet-based dynamic range compression with local contrast enhancement. Proceedings of SPIE, 2008, , .	0.8	12
115	Adaptive methods of two-scale edge detection in post-enhancement visual pattern processing. , 2008, , .		0
116	Synthesis and Characterization of Radially-Aligned Carbon Filaments Spontaneously Grown on a Carbon Yarn. Journal of Nanoscience and Nanotechnology, 2008, 8, 4424-4431.	0.9	1
117	Nonlinear technique for the enhancement of extremely high contrast images. Proceedings of SPIE, 2008, , .	0.8	0
118	Beach sand from Cancun Mexico: a natural macro- and mesoporous material. Journal of Materials Science, 2007, 42, 6018-6026.	1.7	13
119	Tannic acid treatment to deter microbial biofouling in flow cell system and on RO membrane in drip flow reactor. , 0, 171, 62-66.		2