Dr Syed M Usman Ali

List of Publications by Year
in descending order

41 papers	1,395 citations	394421 19 h-index	377865 34 g-index
43 all docs	43 docs citations	43 times ranked	1706 citing authors

#	Article	IF	Citations
1	Flipped voltage follower based fourth order filter and its application to portable ECG acquisition system. The Integration VLSI Journal, 2020, 72, 29-38.	2.1	9
2	Application of new algorithms on asymmetric cascaded multilevel inverter. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 943-958.	0.9	0
3	ZnO nanostructures: comparative synthetic and characterisation studies. Micro and Nano Letters, 2020, 15, 972-976.	1.3	3
4	New level doubling architecture of cascaded multilevel inverter. IET Power Electronics, 2019, 12, 1891-1902.	2.1	12
5	Nanopower sub-threshold biquadratic cells and its application to portable ECG system. AEU - International Journal of Electronics and Communications, 2019, 107, 57-69.	2.9	2
6	7.2â€...nW 68â€...dB DR Fourth Order Self-compensated Low Pass Filter for Portable ECG Application. Advanced Biomedical Engineering, 2019, 8, 153-162.	0.6	0
7	Power Efficient Fully Differential Bulk Driven OTA for Portable Biomedical Application. Electronics (Switzerland), 2018, 7, 41.	3.1	17
8	Step forward to map fully parallel energy efficient cortical columns on field programmable gate arrays. IET Science, Measurement and Technology, 2014, 8, 432-440.	1.6	4
9	Impact of hydrogen concentrations on the impedance spectroscopic behavior of Pd-sensitized ZnO nanorods. Nanoscale Research Letters, 2013, 8, 68.	5.7	33
10	Solâ€“gel synthesis of Pd doped ZnO nanorods for room temperature hydrogen sensing applications. Ceramics International, 2013, 39, 6461-6466.	4.8	60
11	Comparative study of SVPWM (space vector pulse width modulation) & SPWM (sinusoidal pulse) Tj ETQq1 1 0.784314 rgBT /Ov Conference Series: Materials Science and Engineering, 2013, 51, 012027.	0.6	18
12	Morphological, Structural, and Electrical Characterization of Sol-Gel-Synthesized ZnO Nanorods. Journal of Nanomaterials, 2013, 2013, 1-7.	2.7	18
13	Semantic Mapping and Motion Planning with Turtlebot Roomba. IOP Conference Series: Materials Science and Engineering, 2013, 51, 012024.	0.6	1
14	FPGA based Smart Wireless MIMO Control System. IOP Conference Series: Materials Science and Engineering, 2013, 51, 012018.	0.6	0
15	Wireless Control of Miniaturized Mobile Vehicle for Indoor Surveillance. IOP Conference Series: Materials Science and Engineering, 2013, 51, 012025.	0.6	8
16	Designing, Fabrication and Controlling Of Multipurpose3-DOF Robotic Arm. IOP Conference Series: Materials Science and Engineering, 2013, 51, 012023.	0.6	0
17	Solâ€“Gel Synthesis of ZnO Nanorods for Ultrasensitive Detection of Acetone. Advanced Science Letters, 2013, 19, 3560-3563.	0.2	3
18	A Potentiometric Indirect Uric Acid Sensor Based on ZnO Nanoflakes and Immobilized Uricase. Sensors, 2012, 12, 2787-2797.	3.8	64

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19	Structural and impedance spectroscopy study of Alâ€doped ZnO nanorods grown by solâ€gel method. Microelectronics International, 2012, 29, 131-135.	0.6	19
20	Effect of Different Seed Solutions on the Morphology and Electrooptical Properties of ZnO Nanorods. Journal of Nanomaterials, 2012, 2012, 1-6.	2.7	49
21	Selective Thallium (I) Ion Sensor Based on Functionalised ZnO Nanorods. Journal of Nanotechnology, 2012, 2012, 1-6.	3.4	6
22	Morphological, optical, and Raman characteristics of ZnO nanoflakes prepared via a solâ€“gel method. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 143-147.	1.8	52
23	Sensitivity of A-549 human lung cancer cells to nanoporous zinc oxide conjugated with Photofrin. Lasers in Medical Science, 2012, 27, 607-614.	2.1	21
24	Characterisation, analysis and optical properties of nanostructure ZnO using the solâ€“gel method. Micro and Nano Letters, 2012, 7, 163.	1.3	32
25	Iron Ion Sensor Based on Functionalized ZnO Nanorods. Electroanalysis, 2012, 24, 521-528.	2.9	12
26	Zinc Oxide Nanostructures Based Bio- and Chemical Extra- and Intracellular Sensors. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 305-322.	0.5	0
27	Intracellular K$^+$ Determination With a Potentiometric Microelectrode Based on ZnO Nanowires. IEEE Nanotechnology Magazine, 2011, 10, 913-919.	2.0	29
28	Applications of zinc oxide nanowires for bio-photonics and bio-electronics. Proceedings of SPIE, 2011, , .	0.8	2
29	ZnO Nanorods Based Enzymatic Biosensor for Selective Determination of Penicillin. Biosensors, 2011, 1, 153-163.	4.7	36
30	Selective determination of urea using urease immobilized on ZnO nanowires. Sensors and Actuators B: Chemical, 2011, 160, 637-643.	7.8	78
31	Functionalised zinc oxide nanotube arrays as electrochemical sensors for the selective determination of glucose. Micro and Nano Letters, 2011, 6, 609.	1.3	40
32	Selective potentiometric determination of uric acid with uricase immobilized on ZnO nanowires. Sensors and Actuators B: Chemical, 2011, 152, 241-247.	7.8	115
33	Wireless Remote Monitoring of Glucose Using a Functionalized ZnO Nanowire Arrays Based Sensor. Sensors, 2011, 11, 8485-8496.	3.8	26
34	ZnO Nanoporous Structure Growth, Optical and Structural Characterization by Aqueous Solution Route. , 2011, , .		4
35	Functionalized ZnO nanorod-based selective magnesium ion sensor for intracellular measurements. Biosensors and Bioelectronics, 2010, 26, 1118-1123.	10.1	38
36	A fast and sensitive potentiometric glucose microsensor based on glucose oxidase coated ZnO nanowires grown on a thin silver wire. Sensors and Actuators B: Chemical, 2010, 145, 869-874.	7.8	155

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37	An intracellular glucose biosensor based on nanoflake ZnO. Sensors and Actuators B: Chemical, 2010, 150, 673-680.	7.8	120
38	Functionalised ZnO-nanorod-based selective electrochemical sensor for intracellular glucose. Biosensors and Bioelectronics, 2010, 25, 2205-2211.	10.1	120
39	ZnO nanoporous structure growth, optical and structural characterization by aqueous solution route. , 2010, , .		3
40	Miniaturized pH Sensors Based on Zinc Oxide Nanotubes/Nanorods. Sensors, 2009, 9, 8911-8923.	3.8	126
41	Glucose Detection With a Commercial MOSFET Using a ZnO Nanowires Extended Gate. IEEE Nanotechnology Magazine, 2009, 8, 678-683.	2.0	60