

Dr Syed M Usman Ali

List of Publications by Year in descending order

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41
papers

1,395
citations

394421

19
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377865

34
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43
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43
docs citations

43
times ranked

1706
citing authors

#	ARTICLE	IF	CITATIONS
1	A fast and sensitive potentiometric glucose microsensor based on glucose oxidase coated ZnO nanowires grown on a thin silver wire. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 869-874.	7.8	155
2	Miniaturized pH Sensors Based on Zinc Oxide Nanotubes/Nanorods. <i>Sensors</i> , 2009, 9, 8911-8923.	3.8	126
3	An intracellular glucose biosensor based on nanoflake ZnO. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 673-680.	7.8	120
4	Functionalised ZnO-nanorod-based selective electrochemical sensor for intracellular glucose. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2205-2211.	10.1	120
5	Selective potentiometric determination of uric acid with uricase immobilized on ZnO nanowires. <i>Sensors and Actuators B: Chemical</i> , 2011, 152, 241-247.	7.8	115
6	Selective determination of urea using urease immobilized on ZnO nanowires. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 637-643.	7.8	78
7	A Potentiometric Indirect Uric Acid Sensor Based on ZnO Nanoflakes and Immobilized Uricase. <i>Sensors</i> , 2012, 12, 2787-2797.	3.8	64
8	Glucose Detection With a Commercial MOSFET Using a ZnO Nanowires Extended Gate. <i>IEEE Nanotechnology Magazine</i> , 2009, 8, 678-683.	2.0	60
9	Sol-gel synthesis of Pd doped ZnO nanorods for room temperature hydrogen sensing applications. <i>Ceramics International</i> , 2013, 39, 6461-6466.	4.8	60
10	Morphological, optical, and Raman characteristics of ZnO nanoflakes prepared via a sol-gel method. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 143-147.	1.8	52
11	Effect of Different Seed Solutions on the Morphology and Electrooptical Properties of ZnO Nanorods. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-6.	2.7	49
12	Functionalised zinc oxide nanotube arrays as electrochemical sensors for the selective determination of glucose. <i>Micro and Nano Letters</i> , 2011, 6, 609.	1.3	40
13	Functionalized ZnO nanorod-based selective magnesium ion sensor for intracellular measurements. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1118-1123.	10.1	38
14	ZnO Nanorods Based Enzymatic Biosensor for Selective Determination of Penicillin. <i>Biosensors</i> , 2011, 1, 153-163.	4.7	36
15	Impact of hydrogen concentrations on the impedance spectroscopic behavior of Pd-sensitized ZnO nanorods. <i>Nanoscale Research Letters</i> , 2013, 8, 68.	5.7	33
16	Characterisation, analysis and optical properties of nanostructure ZnO using the sol-gel method. <i>Micro and Nano Letters</i> , 2012, 7, 163.	1.3	32
17	Intracellular K ⁺ Determination With a Potentiometric Microelectrode Based on ZnO Nanowires. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 913-919.	2.0	29
18	Wireless Remote Monitoring of Glucose Using a Functionalized ZnO Nanowire Arrays Based Sensor. <i>Sensors</i> , 2011, 11, 8485-8496.	3.8	26

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19	Sensitivity of A-549 human lung cancer cells to nanoporous zinc oxide conjugated with Photofrin. <i>Lasers in Medical Science</i> , 2012, 27, 607-614.	2.1	21
20	Structural and impedance spectroscopy study of Al-doped ZnO nanorods grown by sol-gel method. <i>Microelectronics International</i> , 2012, 29, 131-135.	0.6	19
21	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
22	Morphological, Structural, and Electrical Characterization of Sol-Gel-Synthesized ZnO Nanorods. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-7.	2.7	18
23	Power Efficient Fully Differential Bulk Driven OTA for Portable Biomedical Application. <i>Electronics (Switzerland)</i> , 2018, 7, 41.	3.1	17
24	Iron Ion Sensor Based on Functionalized ZnO Nanorods. <i>Electroanalysis</i> , 2012, 24, 521-528.	2.9	12
25	New level doubling architecture of cascaded multilevel inverter. <i>IET Power Electronics</i> , 2019, 12, 1891-1902.	2.1	12
26	Flipped voltage follower based fourth order filter and its application to portable ECG acquisition system. <i>The Integration VLSI Journal</i> , 2020, 72, 29-38.	2.1	9
27	Wireless Control of Miniaturized Mobile Vehicle for Indoor Surveillance. <i>IOP Conference Series: Materials Science and Engineering</i> , 2013, 51, 012025.	0.6	8
28	Selective Thallium (I) Ion Sensor Based on Functionalised ZnO Nanorods. <i>Journal of Nanotechnology</i> , 2012, 2012, 1-6.	3.4	6
29	ZnO Nanoporous Structure Growth, Optical and Structural Characterization by Aqueous Solution Route. , 2011, , .		4
30	Step forward to map fully parallel energy efficient cortical columns on field programmable gate arrays. <i>IET Science, Measurement and Technology</i> , 2014, 8, 432-440.	1.6	4
31	ZnO nanoporous structure growth, optical and structural characterization by aqueous solution route. , 2010, , .		3
32	Sol-gel Synthesis of ZnO Nanorods for Ultrasensitive Detection of Acetone. <i>Advanced Science Letters</i> , 2013, 19, 3560-3563.	0.2	3
33	ZnO nanostructures: comparative synthetic and characterisation studies. <i>Micro and Nano Letters</i> , 2020, 15, 972-976.	1.3	3
34	Applications of zinc oxide nanowires for bio-photonics and bio-electronics. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
35	Nanopower sub-threshold biquadratic cells and its application to portable ECG system. <i>AEU - International Journal of Electronics and Communications</i> , 2019, 107, 57-69.	2.9	2
36	Semantic Mapping and Motion Planning with Turtlebot Roomba. <i>IOP Conference Series: Materials Science and Engineering</i> , 2013, 51, 012024.	0.6	1

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37	FPGA based Smart Wireless MIMO Control System. IOP Conference Series: Materials Science and Engineering, 2013, 51, 012018.	0.6	0
38	Designing, Fabrication and Controlling Of Multipurpose3-DOF Robotic Arm. IOP Conference Series: Materials Science and Engineering, 2013, 51, 012023.	0.6	0
39	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
40	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
41	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