Rafiq Ahmad

List of Publications by Year in descending order

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95 papers 5,102 citations

50244 46 h-index 91828 69 g-index

96 all docs 96 docs citations

96 times ranked 5993 citing authors

#	Article	IF	CITATIONS
1	Fabrication of an ultra-sensitive hydrazine sensor based on nano-chips shaped nickel hydroxide modified electrodes. Microsystem Technologies, 2022, 28, 279-286.	1.2	5
2	Nano-donuts shaped nickel oxide nanostructures for sensitive non-enzymatic electrochemical detection of glucose. Microsystem Technologies, 2022, 28, 313-318.	1.2	7
3	Biosynthesized gold nanoparticles maintained nitrogen metabolism, nitric oxide synthesis, ions balance, and stabilizes the defense systems to improve salt stress tolerance in wheat. Chemosphere, 2022, 287, 132142.	4.2	45
4	Impact of NiO nano-particles on colossal magneto-resistance of La0.70Ca0.30MnO3 composite. Materials Letters: X, 2022, 14, 100147.	0.3	0
5	Vertically Oriented Zinc Oxide Nanorod-Based Electrolyte-Gated Field-Effect Transistor for High-Performance Glucose Sensing. Analytical Chemistry, 2022, 94, 8867-8873.	3.2	15
6	High performance chemical sensor with field-effect transistors array for selective detection of multiple ions. Chemical Engineering Journal, 2021, 417, 128064.	6.6	22
7	Room Temperature Synthesis of Colossal Magneto-Resistance of La _{2/3} Ca _{1/3} MnO ₃ : Ag _{0.10} Composite. ECS Journal of Solid State Science and Technology, 2021, 10, 027006.	0.9	5
8	Anodic stripping voltammetry analysis of gold nanoparticles functionalized one-dimensional single polypyrrole nanowire for arsenic sensing. Surfaces and Interfaces, 2021, 23, 100895.	1.5	12
9	Engineered Hierarchical CuO Nanoleaves Based Electrochemical Nonenzymatic Biosensor for Glucose Detection. ECS Meeting Abstracts, 2021, MA2021-01, 1379-1379.	0.0	O
10	<i>In Silico</i>) and Electrochemical Studies for a ZnO–CuO-Based Immunosensor for Sensitive and Selective Detection of <i>E. coli</i>). ACS Omega, 2021, 6, 16076-16085.	1.6	14
11	Engineered CuO Nanofibers with Boosted Non-Enzymatic Glucose Sensing Performance. Journal of the Electrochemical Society, 2021, 168, 067507.	1.3	37
12	CsPbBr ₃ Nanoplatelets: Synthesis and Understanding of Ultraviolet Light-Induced Structural Phase Change and Luminescence Degradation. ECS Journal of Solid State Science and Technology, 2021, 10, 096002.	0.9	10
13	Engineered Hierarchical CuO Nanoleaves Based Electrochemical Nonenzymatic Biosensor for Glucose Detection. Journal of the Electrochemical Society, 2021, 168, 017501.	1.3	83
14	A highly sensitive uric acid biosensor based on vertically arranged ZnO nanorods on a ZnO nanoparticle-seeded electrode. New Journal of Chemistry, 2021, 45, 18863-18870.	1.4	16
15	Reviewâ€"Recent Advances in Nanostructured Graphitic Carbon Nitride as a Sensing Material for Heavy Metal Ions. Journal of the Electrochemical Society, 2020, 167, 037519.	1.3	57
16	Ultra thin NiO nanosheets for high performance hydrogen gas sensor device. Applied Surface Science, 2020, 506, 144971.	3.1	133
17	Transcriptomic analysis delineates potential signature genes and miRNAs associated with the pathogenesis of asthma. Scientific Reports, 2020, 10, 13354.	1.6	20
18	Silver Nanoparticle Regulates Salt Tolerance in Wheat Through Changes in ABA Concentration, Ion Homeostasis, and Defense Systems. Biomolecules, 2020, 10, 1506.	1.8	73

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19	Hydrothermally Synthesized Nickel Oxide Nanosheets for Non-Enzymatic Electrochemical Glucose Detection. Journal of the Electrochemical Society, 2020, 167, 107504.	1.3	56
20	Reviewâ€"Recent Advances in the Development of Carbon Nanotubes Based Flexible Sensors. Journal of the Electrochemical Society, 2020, 167, 047506.	1.3	36
21	Graphene Oxide (GO) Nanocomposite Based Room Temperature Gas Sensor. Materials Horizons, 2020, , 303-328.	0.3	1
22	Highly Sensitive Hydrazine Detection Using a Vertically Oriented ZnO Nanosheet-based Field-Effect Transistor. Journal of the Electrochemical Society, 2020, 167, 167513.	1.3	26
23	Multi-Walled Carbon Nanotubes Decorated with Silver Nanoparticles for Acetone Gas Sensing at Room Temperature. Journal of the Electrochemical Society, 2020, 167, 167519.	1.3	75
24	Hybrid Composite Biomaterials. , 2019, , 695-714.		9
25	Biomimetic Approaches for Regenerative Engineering. , 2019, , 483-495.		2
26	Exfoliated nanosheets of Co3O4 webbed with polyaniline nanofibers: A novel composite electrode material for enzymeless glucose sensing application. Journal of Industrial and Engineering Chemistry, 2019, 73, 106-117.	2.9	37
27	One-step synthesis and decoration of nickel oxide nanosheets with gold nanoparticles by reduction method for hydrazine sensing application. Sensors and Actuators B: Chemical, 2019, 286, 139-147.	4.0	38
28	Recent progress and perspectives of gas sensors based on vertically oriented ZnO nanomaterials. Advances in Colloid and Interface Science, 2019, 270, 1-27.	7.0	141
29	Improved selectivity and low concentration hydrogen gas sensor application of Pd sensitized heterojunction n-ZnO/p-NiO nanostructures. Journal of Alloys and Compounds, 2019, 797, 456-464.	2.8	127
30	High response and low concentration hydrogen gas sensing properties using hollow ZnO particles transformed from polystyrene@ZnO core-shell structures. International Journal of Hydrogen Energy, 2019, 44, 15677-15688.	3.8	56
31	KAUSTat: A Wireless, Wearable, Open-Source Potentiostat for Electrochemical Measurements., 2019,,.		11
32	Organic field effect transistors (OFETs) in environmental sensing and health monitoring: A review. TrAC - Trends in Analytical Chemistry, 2019, 111, 27-36.	5.8	84
33	Fabrication of a solution-gated transistor based on valinomycin modified iron oxide nanoparticles decorated zinc oxide nanorods for potassium detection. Journal of Colloid and Interface Science, 2018, 518, 277-283.	5.0	34
34	Synthesis of manganese oxide nanorods and its application for potassium ion sensing in water. Journal of Colloid and Interface Science, 2018, 516, 364-370.	5.0	28
35	Fabrication of sensitive non-enzymatic nitrite sensor using silver-reduced graphene oxide nanocomposite. Journal of Colloid and Interface Science, 2018, 516, 67-75.	5.0	59
36	Preparation of a Highly Conductive Seed Layer for Calcium Sensor Fabrication with Enhanced Sensing Performance. ACS Sensors, 2018, 3, 772-778.	4.0	39

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37	Fully nozzle-jet printed non-enzymatic electrode for biosensing application. Journal of Colloid and Interface Science, 2018, 512, 480-488.	5.0	36
38	Nonenzymatic flexible field-effect transistor based glucose sensor fabricated using NiO quantum dots modified ZnO nanorods. Journal of Colloid and Interface Science, 2018, 512, 21-28.	5.0	99
39	Recent advances in nanowires-based field-effect transistors for biological sensor applications. Biosensors and Bioelectronics, 2018, 100, 312-325.	5.3	110
40	Physical Sensors for Biomedical Applications. , 2018, , .		4
41	Deposition of nanomaterials: A crucial step in biosensor fabrication. Materials Today Communications, 2018, 17, 289-321.	0.9	140
42	Nano-bitter gourd like structured CuO for enhanced hydrogen gas sensor application. International Journal of Hydrogen Energy, 2018, 43, 22705-22714.	3.8	85
43	Inorganic nanotheranostics: Strategy development and applications. , 2018, , 377-419.		3
44	Biosensor for the detection of <i>Listeria monocytogenes</i> : emerging trends. Critical Reviews in Microbiology, 2018, 44, 590-608.	2.7	52
45	Hydrothermal synthesis of p-type nanocrystalline NiO nanoplates for high response and low concentration hydrogen gas sensor application. Ceramics International, 2018, 44, 15721-15729.	2.3	56
46	Highly stable hydrazine chemical sensor based on vertically-aligned ZnO nanorods grown on electrode. Journal of Colloid and Interface Science, 2017, 494, 153-158.	5.0	55
47	Fabrication of a non-enzymatic glucose sensor field-effect transistor based on vertically-oriented ZnO nanorods modified with Fe 2 O 3. Electrochemistry Communications, 2017, 77, 107-111.	2.3	94
48	Development of highly-stable binder-free chemical sensor electrodes for p-nitroaniline detection. Journal of Colloid and Interface Science, 2017, 494, 300-306.	5.0	28
49	Solution Process Synthesis of High Aspect Ratio ZnO Nanorods on Electrode Surface for Sensitive Electrochemical Detection of Uric Acid. Scientific Reports, 2017, 7, 46475.	1.6	64
50	Two-dimensional ytterbium oxide nanodisks based biosensor for selective detection of urea. Biosensors and Bioelectronics, 2017, 98, 254-260.	5.3	59
51	In situ synthesis of cylindrical spongy polypyrrole doped protonated graphitic carbon nitride for cholesterol sensing application. Biosensors and Bioelectronics, 2017, 94, 686-693.	5.3	87
52	ZnO nanorods array based field-effect transistor biosensor for phosphate detection. Journal of Colloid and Interface Science, 2017, 498, 292-297.	5.0	93
53	Fabrication of a robust and highly sensitive nitrate biosensor based on directly grown zinc oxide nanorods on a silver electrode. New Journal of Chemistry, 2017, 41, 10992-10997.	1.4	19
54	Ambient-air-solution-processed efficient and highly stable perovskite solar cells based on CH3NH3Pbl3â^'xClx-NiO composite with Al2O3/NiO interfacial engineering. Nano Energy, 2017, 40, 408-417.	8.2	60

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55	A Highly Sensitive Nonenzymatic Sensor Based on Fe ₂ O ₃ Nanoparticle Coated ZnO Nanorods for Electrochemical Detection of Nitrite. Advanced Materials Interfaces, 2017, 4, 1700691.	1.9	61
56	Nozzle-jet printed flexible field-effect transistor biosensor for high performance glucose detection. Journal of Colloid and Interface Science, 2017, 506, 188-196.	5.0	42
57	Highly Efficient Non-Enzymatic Glucose Sensor Based on CuO Modified Vertically-Grown ZnO Nanorods on Electrode. Scientific Reports, 2017, 7, 5715.	1.6	234
58	Globular Shaped Polypyrrole Doped Well-Dispersed Functionalized Multiwall Carbon Nanotubes/Nafion Composite for Enzymatic Glucose Biosensor Application. Scientific Reports, 2017, 7, 16191.	1.6	50
59	ZnO nanonails for photocatalytic degradation of crystal violet dye under UV irradiation. AIMS Materials Science, 2017, 4, 267-276.	0.7	14
60	Hierarchically assembled ZnO nanosheets microspheres for enhanced glucose sensing performances. Ceramics International, 2016, 42, 13464-13469.	2.3	17
61	Bi2O2CO3 nanoplates: Fabrication and characterization of highly sensitive and selective cholesterol biosensor. Journal of Alloys and Compounds, 2016, 683, 433-438.	2.8	46
62	High-performance glucose biosensor based on chitosan-glucose oxidase immobilized polypyrrole/Nafion/functionalized multi-walled carbon nanotubes bio-nanohybrid film. Journal of Colloid and Interface Science, 2016, 482, 39-47.	5.0	116
63	Low-temperature sintering of highly conductive silver ink for flexible electronics. Journal of Materials Chemistry C, 2016, 4, 8522-8527.	2.7	58
64	Outstanding Antibiofilm Features of Quanta-CuO Film on Glass Surface. ACS Applied Materials & Interfaces, 2016, 8, 15128-15137.	4.0	43
65	Rapid methyl orange degradation using porous ZnO spheres photocatalyst. Journal of Photochemistry and Photobiology B: Biology, 2016, 161, 312-317.	1.7	56
66	Ammonium ion detection in solution using vertically grown ZnO nanorod based field-effect transistor. RSC Advances, 2016, 6, 54836-54840.	1.7	60
67	Mesoporous ZnO nanoclusters as an ultra-active photocatalyst. Ceramics International, 2016, 42, 9519-9526.	2.3	46
68	Fabrication and Characterization of Highly Sensitive and Selective Glucose Biosensor Based on ZnO Decorated Carbon Nanotubes. Nanoscience and Nanotechnology Letters, 2016, 8, 853-858.	0.4	7
69	Effect of Annealing Atmosphere on the Optical and Electrical Properties of Al-Doped ZnO Films and ZnO Nanorods Grown by Solution Process. Science of Advanced Materials, 2016, 8, 1523-1529.	0.1	6
70	A robust enzymeless glucose sensor based on CuO nanoseed modified electrodes. Dalton Transactions, 2015, 44, 12488-12492.	1.6	50
71	Fabrication and characterization of a highly sensitive hydroquinone chemical sensor based on iron-doped ZnO nanorods. Dalton Transactions, 2015, 44, 21081-21087.	1.6	35
72	Enhanced anticancer potency using an acid-responsive ZnO-incorporated liposomal drug-delivery system. Nanoscale, 2015, 7, 4088-4096.	2.8	63

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73	Multi-synergetic ZnO platform for high performance cancer therapy. Chemical Communications, 2015, 51, 2585-2588.	2.2	16
74	A comprehensive biosensor integrated with a ZnO nanorod FET array for selective detection of glucose, cholesterol and urea. Chemical Communications, 2015, 51, 11968-11971.	2.2	89
75	Fabrication of highly sensitive uric acid biosensor based on directly grown ZnO nanosheets on electrode surface. Sensors and Actuators B: Chemical, 2015, 206, 146-151.	4.0	112
76	Nanoimprinted ZnO and ZnO Quantum Dots Embedded SiO2 Layers for Inverted Bulk Heterojunction Solar Cells. Science of Advanced Materials, 2015, 7, 1253-1257.	0.1	1
77	Optical and Electrical Properties of Li-Doped CuO Quantum-Dots Films by Solution Process. Science of Advanced Materials, 2015, 7, 2481-2485.	0.1	O
78	Spruce branched \hat{l}_{\pm} -Fe2O3 nanostructures as potential scaffolds for a highly sensitive and selective glucose biosensor. New Journal of Chemistry, 2014, 38, 5873-5879.	1.4	23
79	High performance cholesterol sensor based on ZnO nanotubes grown on Si/Ag electrodes. Electrochemistry Communications, 2014, 38, 4-7.	2.3	77
80	Highly stable urea sensor based on ZnO nanorods directly grown on Ag/glass electrodes. Sensors and Actuators B: Chemical, 2014, 194, 290-295.	4.0	76
81	Cholesterol biosensing based on highly immobilized ChOx on ZnO hollow nanospheres. RSC Advances, 2014, 4, 46049-46053.	1.7	13
82	Tailored lysozyme–ZnO nanoparticle conjugates as nanoantibiotics. Chemical Communications, 2014, 50, 9298-9301.	2.2	55
83	Highly sensitive hydrazine chemical sensor based on ZnO nanorods field-effect transistor. Chemical Communications, 2014, 50, 1890.	2.2	102
84	Photocatalytic degradation of methyl orange dye by ZnO nanoneedle under UV irradiation. Materials Letters, 2014, 136, 171-174.	1.3	95
85	Glucose-assisted synthesis of Cu2O shuriken-like nanostructures and their application as nonenzymatic glucose biosensors. Sensors and Actuators B: Chemical, 2014, 203, 471-476.	4.0	98
86	Development of Highly Sensitive and Selective Cholesterol Biosensor Based on Cholesterol Oxidase Co-Immobilized with α-Fe2O3 Micro-Pine Shaped Hierarchical Structures. Electrochimica Acta, 2014, 135, 396-403.	2.6	44
87	Wide Linear-Range Detecting Nonenzymatic Glucose Biosensor Based on CuO Nanoparticles Inkjet-Printed on Electrodes. Analytical Chemistry, 2013, 85, 10448-10454.	3.2	180
88	Gas sensing properties of single crystalline ZnO nanowires grown byÂthermal evaporation technique. Current Applied Physics, 2013, 13, 1769-1773.	1.1	30
89	High-performance cholesterol sensor based on the solution-gated field effect transistor fabricated with ZnO nanorods. Biosensors and Bioelectronics, 2013, 45, 281-286.	5.3	105
90	Highly selective wide linear-range detecting glucose biosensors based on aspect-ratio controlled ZnO nanorods directly grown on electrodes. Sensors and Actuators B: Chemical, 2012, 174, 195-201.	4.0	69

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91	Time-Dependent Control of Hole-Opening Degree of Porous ZnO Hollow Microspheres. Inorganic Chemistry, 2012, 51, 1104-1110.	1.9	55
92	Wide linear-range detecting high sensitivity cholesterol biosensors based on aspect-ratio controlled ZnO nanorods grown on silver electrodes. Sensors and Actuators B: Chemical, 2012, 169, 382-386.	4.0	54
93	Chemical and biological sensors based on metal oxide nanostructures. Chemical Communications, 2012, 48, 10369.	2.2	226
94	Review-Emerging Applications of g-C3N4 Films in Perovskite-Based Solar Cells. ECS Journal of Solid State Science and Technology, 0 , , .	0.9	10
95	Wide-Linear Range Cholesterol Detection Using Fe2O3 Nanoparticles Decorated ZnO Nanorods Based Electrolyte-Gated Transistor. Journal of the Electrochemical Society, 0, , .	1.3	11