

Shafqat Karim

List of Publications by Year in descending order

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76
papers

3,406
citations

186209

28
h-index

143943

57
g-index

80
all docs

80
docs citations

80
times ranked

4628
citing authors

#	ARTICLE	IF	CITATIONS
1	MWCNT synergy for boosting the electrochemical kinetics of $V_{2}O_{5}$ cathode for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2022, 46, 3417-3425.	1.4	4
2	Facile synthesis of zwitterionic surfactant-assisted molybdenum oxide/reduced graphene oxide nanocomposite with enhanced photocatalytic and antimicrobial activities. <i>Journal of the Chinese Chemical Society</i> , 2022, 69, 269-279.	0.8	7
3	A sensitive non-enzymatic glucose sensor based on MgO entangled nanosheets decorated with CdS nanoparticles: Experimental and DFT study. <i>Journal of Molecular Liquids</i> , 2022, 360, 119366.	2.3	10
4	Mesoporous $NiCo_{2}S_{4}$ nanoflakes as an efficient and durable electrocatalyst for non-enzymatic detection of cholesterol. <i>Nanotechnology</i> , 2022, 33, 375502.	1.3	3
5	Frequency stable dielectric constant with reduced dielectric loss of one-dimensional ZnO/ZnS heterostructures. <i>Nanoscale</i> , 2021, 13, 15711-15720.	2.8	6
6	Ni and Co synergy in bimetallic nanowires for the electrochemical detection of hydrogen peroxide. <i>Nanotechnology</i> , 2021, 32, 205501.	1.3	12
7	Oxygen vacancies boosted vanadium doped ZnO nanostructures-based voltage-switchable binary biosensor. <i>Nanotechnology</i> , 2021, 33, .	1.3	2
8	Preparation of oxidized Zn-In nanostructures for electrochemical non-enzymatic cholesterol sensing. <i>Materials Science in Semiconductor Processing</i> , 2021, 135, 106101.	1.9	7
9	Voltage-Switchable Biosensor with Gold Nanoparticles on TiO_{2} Nanotubes Decorated with CdS Quantum Dots for the Detection of Cholesterol and $H_{2}O_{2}$. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3653-3668.	4.0	52
10	Graphene Oxide Functionalized with Silver Nanoparticles and ZnO Synergic Nanocomposite as an Efficient Electrochemical Sensor for Diclofenac Sodium. <i>Nano</i> , 2021, 16, .	0.5	3
11	Development of non-enzymatic cholesterol bio-sensor based on TiO_{2} nanotubes decorated with $Cu_{2}O$ nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2020, 302, 127200.	4.0	70
12	Fabrication of Au/Ni/NiO heterostructure nanowires by electrochemical deposition and their temperature dependent magnetic properties. <i>Journal of Solid State Chemistry</i> , 2020, 284, 121186.	1.4	7
13	The role of electrodeposition current density in the synthesis and non-enzymatic glucose sensing of oxidized zinc-tin hybrid nanostructures. <i>Materials Science in Semiconductor Processing</i> , 2020, 109, 104953.	1.9	5
14	TiO_{2} nanotube array-modified electrodes for L-cysteine biosensing: experimental and density-functional theory study. <i>Nanotechnology</i> , 2020, 31, 505501.	1.3	9
15	Sensitization of $Sm/SnO_{2} - SiO_{2}$ Nanocomposite with Zwitterionic Surfactant for Enhanced Photocatalytic Performance under Sunlight. <i>Russian Journal of Physical Chemistry A</i> , 2019, 93, 1610-1619.	0.1	9
16	Silver Nanoparticles Embedded Graphene Oxide Nanocomposite with Enhanced Antibacterial and Photocatalytic Degradation Activities. <i>ChemistrySelect</i> , 2019, 4, 8372-8377.	0.7	12
17	Morphological evolution of ZnO nanostructures with hydrothermal oxidation time and their electrochemical glucose sensing properties. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 2059-2068.	1.6	4
18	Synergic effect of plasmonic gold nanoparticles and graphene oxide on the performance of glucose sensing. <i>New Journal of Chemistry</i> , 2019, 43, 18925-18934.	1.4	4

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19	Tungsten oxide multifunctional nanostructures: Enhanced environmental and sensing applications. <i>Materials Chemistry and Physics</i> , 2019, 221, 250-257.	2.0	8
20	Temperature dependent dielectric and electric modulus properties of ZnS nano particles. <i>Semiconductor Science and Technology</i> , 2017, 32, 035008.	1.0	6
21	Electrical and magnetic properties of nano-sized Eu doped barium hexaferrites. <i>Journal of Alloys and Compounds</i> , 2017, 727, 683-690.	2.8	32
22	Ag TiO ₂ nanocomposite for environmental and sensing applications. <i>Materials Chemistry and Physics</i> , 2016, 181, 194-203.	2.0	29
23	Noble metal nanoparticle-functionalized ZnO nanoflowers for photocatalytic degradation of RhB dye and electrochemical sensing of hydrogen peroxide. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	59
24	Magnetic properties of nickel nanowires decorated with cobalt nanoparticles fabricated by two step electrochemical deposition technique. <i>Materials Chemistry and Physics</i> , 2016, 182, 466-471.	2.0	1
25	Fabrication and size dependent magnetic studies of Ni _x Mn _{1-x} Fe ₂ O ₄ (x=0.2) cubic nanoplates. <i>Journal of Alloys and Compounds</i> , 2016, 684, 656-662.	2.8	11
26	Fabrication and low temperature magnetic studies of Ni-Co core-shell nanowires. <i>Journal of Alloys and Compounds</i> , 2016, 662, 296-301.	2.8	14
27	Fabrication and temperature dependent magnetic properties of Ni-Cu-Co composite nanowires. <i>Physica B: Condensed Matter</i> , 2015, 475, 99-104.	1.3	10
28	Fabrication and temperature dependent magnetic properties of nickel nanowires embedded in alumina templates. <i>Ceramics International</i> , 2015, 41, 12081-12086.	2.3	21
29	Development of Silver Nanowires Based Highly Sensitive Amperometric Glucose Biosensor. <i>Electroanalysis</i> , 2015, 27, 1498-1506.	1.5	13
30	Influence of manganese substitution on structural and magnetic properties of CoFe ₂ O ₄ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2015, 639, 533-540.	2.8	67
31	Electrical transport properties of single crystal vanadium pentoxide nanowires. <i>Materials Chemistry and Physics</i> , 2015, 159, 19-24.	2.0	7
32	Enhanced photocatalytic and electrochemical properties of Au nanoparticles supported TiO ₂ microspheres. <i>New Journal of Chemistry</i> , 2014, 38, 1424.	1.4	52
33	Correlation between magnetic and electrical properties of Co _{0.6} Sn _{0.4} Fe ₂ O ₄ nanoparticles. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	3
34	Electrical conduction mechanism in ZnS nanoparticles. <i>Journal of Alloys and Compounds</i> , 2014, 612, 64-68.	2.8	38
35	Enhancement of electrical conductivity and dielectric constant in Sn-doped nanocrystalline CoFe ₂ O ₄ . <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	16
36	Temperature induced delocalization of charge carriers and metallic phase in Co _{0.6} Sn _{0.4} Fe ₂ O ₄ nanoparticles. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	37

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37	Effect of particle size on the magnetic properties of $\text{Ni}_x\text{Co}_{1-x}\text{Fe}_2\text{O}_4$ ($x=0.3$) nanoparticles. <i>Chemical Physics Letters</i> , 2012, 549, 67-71.	1.2	9
38	Effect of temperature on the magnetic characteristics of $\text{Ni}_0.5\text{Co}_0.5\text{Fe}_2\text{O}_4$ nanoparticles. <i>Materials Chemistry and Physics</i> , 2012, 133, 1006-1010.	2.0	31
39	Semiconductor to metallic transition and polaron conduction in nanostructured cobalt ferrite. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 165404.	1.3	54
40	Reduced conductivity and enhancement of Debye orientational polarization in lanthanum doped cobalt ferrite nanoparticles. <i>Physica B: Condensed Matter</i> , 2011, 406, 4393-4399.	1.3	48
41	Magnetic behavior of arrays of nickel nanowires: Effect of microstructure and aspect ratio. <i>Materials Chemistry and Physics</i> , 2011, 130, 1103-1108.	2.0	21
42	Effect of aging on the magnetic characteristics of nickel nanowires embedded in polycarbonate. <i>Journal of Applied Physics</i> , 2011, 110, 013908.	1.1	3
43	Structural characterisation of textured gold nanowires. <i>International Journal of Nanotechnology</i> , 2011, 8, 855.	0.1	0
44	Effect of Crystallographic Texture on Magnetic Characteristics of Cobalt Nanowires. <i>Nanoscale Research Letters</i> , 2010, 5, 1111-1117.	3.1	59
45	Varying Track Etch Rates along the Fission Fragments' Trajectories in CR-39 Detectors. <i>Chinese Physics Letters</i> , 2010, 27, 052903.	1.3	2
46	Characterization of Cobalt Nanowires Fabricated in Anodic Alumina Template Through AC Electrodeposition. <i>IEEE Nanotechnology Magazine</i> , 2010, 9, 223-228.	1.1	23
47	Efficient field emission from structured gold nanowire cathodes. <i>EPJ Applied Physics</i> , 2009, 48, 30502.	0.3	19
48	Diameter dependent failure current density of gold nanowires. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 185403.	1.3	28
49	Effect of etching conditions on pore shape in etched ion-track polycarbonate membranes. <i>Radiation Measurements</i> , 2009, 44, 779-782.	0.7	22
50	Structural analysis of nickel doped cobalt ferrite nanoparticles prepared by coprecipitation route. <i>Physica B: Condensed Matter</i> , 2009, 404, 3947-3951.	1.3	126
51	Synthesis and magnetic characterization of nickel ferrite nanoparticles prepared by co-precipitation route. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1838-1842.	1.0	405
52	Magnetic response of core-shell cobalt ferrite nanoparticles at low temperature. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	62
53	Surface Plasmon Resonances of Cu Nanowire Arrays. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13583-13587.	1.5	61
54	Investigation of size effects in the electrical resistivity of single electrochemically fabricated gold nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 3173-3178.	1.3	37

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55	Oscillations of electrical conductivity in single bismuth nanowires. <i>Physical Review B</i> , 2008, 77, .	1.1	29
56	Resonant Plasmonic and Vibrational Coupling in a Tailored Nanoantenna for Infrared Detection. <i>Physical Review Letters</i> , 2008, 101, 157403.	2.9	634
57	Field emission properties of electrochemically deposited gold nanowires. <i>Applied Physics Letters</i> , 2008, 92, 063115.	1.5	38
58	Burnout current density of bismuth nanowires. <i>Journal of Applied Physics</i> , 2008, 103, 103713.	1.1	13
59	Tuning the Characteristics of Electrochemically Fabricated Gold Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 5659-5666.	0.9	12
60	Influence of crystallinity on the Rayleigh instability of gold nanowires. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 3767-3770.	1.3	68
61	Preferred growth orientation of metallic fcc nanowires under direct and alternating electrodeposition conditions. <i>Nanotechnology</i> , 2007, 18, 135709.	1.3	55
62	Field emission properties of gold nanowire cathodes based on polymer ion-track membranes. , 2007, , .		0
63	Investigation of nanopore evolution in ion track-etched polycarbonate membranes. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 265, 553-557.	0.6	60
64	Morphological evolution of Au nanowires controlled by Rayleigh instability. <i>Nanotechnology</i> , 2006, 17, 5954-5959.	1.3	240
65	Electrochemical fabrication of single-crystalline and polycrystalline Au nanowires: the influence of deposition parameters. <i>Nanotechnology</i> , 2006, 17, 1922-1926.	1.3	115
66	Resonances of individual metal nanowires in the infrared. <i>Applied Physics Letters</i> , 2006, 89, 253104.	1.5	176
67	Synthesis of gold nanowires with controlled crystallographic characteristics. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 84, 403-407.	1.1	95
68	Finite-size effects in the electrical transport properties of single bismuth nanowires. <i>Journal of Applied Physics</i> , 2006, 100, 114307.	1.1	76
69	Quantum size effects manifest in infrared spectra of single bismuth nanowires. <i>Applied Physics Letters</i> , 2006, 88, 103114.	1.5	46
70	Study of the etching characteristics of -mixed NaOH solution. <i>Radiation Measurements</i> , 2005, 40, 299-302.	0.7	7
71	Determination of porosity of different materials by radon diffusion. <i>Radiation Measurements</i> , 2005, 40, 106-109.	0.7	27
72	A quick method for maintaining the molarity of NaOH solution during continuous etching of CR-39. <i>Radiation Measurements</i> , 2002, 35, 41-45.	0.7	11

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73	Swelling in CR-39 and its effect on bulk etch-rate. Radiation Measurements, 2002, 35, 301-305.	0.7	22
74	Heavy ion interactions of (α) Pb with U. Radiation Measurements, 2001, 34, 227-230.	0.7	5
75	Fabrication and Magnetoresistance of Single Au-Ni-Au Nanowire. International Journal of Nano Studies & Technology, 0, , 45-49.	0.0	0
76	Synthesis of $\text{Co}_x\text{Ni}_{1-x}\text{Fe}_2\text{O}_4$ (X = 0.0, 0.5, 1.0) Nanoparticles by Chemical Co-Precipitation Route. International Journal of Nano Studies & Technology, 0, , 55-58.	0.0	0