

Shafqat Karim

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Resonant Plasmonic and Vibrational Coupling in a Tailored Nanoantenna for Infrared Detection. <i>Physical Review Letters</i> , 2008, 101, 157403. | 2.9 | 634 |
| 2 | 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 |
| 3 | Morphological evolution of Au nanowires controlled by Rayleigh instability. <i>Nanotechnology</i> , 2006, 17, 5954-5959. | 1.3 | 240 |
| 4 | Resonances of individual metal nanowires in the infrared. <i>Applied Physics Letters</i> , 2006, 89, 253104. | 1.5 | 176 |
| 5 | 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 |
| 6 | Electrochemical fabrication of single-crystalline and polycrystalline Au nanowires: the influence of deposition parameters. <i>Nanotechnology</i> , 2006, 17, 1922-1926. | 1.3 | 115 |
| 7 | Synthesis of gold nanowires with controlled crystallographic characteristics. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 84, 403-407. | 1.1 | 95 |
| 8 | Finite-size effects in the electrical transport properties of single bismuth nanowires. <i>Journal of Applied Physics</i> , 2006, 100, 114307. | 1.1 | 76 |
| 9 | 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 |
| 10 | Influence of crystallinity on the Rayleigh instability of gold nanowires. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 3767-3770. | 1.3 | 68 |
| 11 | 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 |
| 12 | Magnetic response of core-shell cobalt ferrite nanoparticles at low temperature. <i>Journal of Applied Physics</i> , 2009, 105, . | 1.1 | 62 |
| 13 | Surface Plasmon Resonances of Cu Nanowire Arrays. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13583-13587. | 1.5 | 61 |
| 14 | 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 |
| 15 | Effect of Crystallographic Texture on Magnetic Characteristics of Cobalt Nanowires. <i>Nanoscale Research Letters</i> , 2010, 5, 1111-1117. | 3.1 | 59 |
| 16 | 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 |
| 17 | Preferred growth orientation of metallic fcc nanowires under direct and alternating electrodeposition conditions. <i>Nanotechnology</i> , 2007, 18, 135709. | 1.3 | 55 |
| 18 | Semiconductor to metallic transition and polaron conduction in nanostructured cobalt ferrite. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 165404. | 1.3 | 54 |

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|----|--|-----|-----------|
| 19 | Enhanced photocatalytic and electrochemical properties of Au nanoparticles supported TiO ₂ microspheres. <i>New Journal of Chemistry</i> , 2014, 38, 1424. | 1.4 | 52 |
| 20 | 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 |
| 21 | 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 |
| 22 | Quantum size effects manifest in infrared spectra of single bismuth nanowires. <i>Applied Physics Letters</i> , 2006, 88, 103114. | 1.5 | 46 |
| 23 | Field emission properties of electrochemically deposited gold nanowires. <i>Applied Physics Letters</i> , 2008, 92, 063115. | 1.5 | 38 |
| 24 | Electrical conduction mechanism in ZnS nanoparticles. <i>Journal of Alloys and Compounds</i> , 2014, 612, 64-68. | 2.8 | 38 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | Effect of temperature on the magnetic characteristics of Ni _{0.5} Co _{0.5} Fe ₂ O ₄ nanoparticles. <i>Materials Chemistry and Physics</i> , 2012, 133, 1006-1010. | 2.0 | 31 |
| 29 | Oscillations of electrical conductivity in single bismuth nanowires. <i>Physical Review B</i> , 2008, 77, . | 1.1 | 29 |
| 30 | Ag TiO ₂ nanocomposite for environmental and sensing applications. <i>Materials Chemistry and Physics</i> , 2016, 181, 194-203. | 2.0 | 29 |
| 31 | Diameter dependent failure current density of gold nanowires. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 185403. | 1.3 | 28 |
| 32 | Determination of porosity of different materials by radon diffusion. <i>Radiation Measurements</i> , 2005, 40, 106-109. | 0.7 | 27 |
| 33 | Characterization of Cobalt Nanowires Fabricated in Anodic Alumina Template Through AC Electrodeposition. <i>IEEE Nanotechnology Magazine</i> , 2010, 9, 223-228. | 1.1 | 23 |
| 34 | Swelling in CR-39 and its effect on bulk etch-rate. <i>Radiation Measurements</i> , 2002, 35, 301-305. | 0.7 | 22 |
| 35 | Effect of etching conditions on pore shape in etched ion-track polycarbonate membranes. <i>Radiation Measurements</i> , 2009, 44, 779-782. | 0.7 | 22 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | Fabrication and temperature dependent magnetic properties of nickel nanowires embedded in alumina templates. <i>Ceramics International</i> , 2015, 41, 12081-12086. | 2.3 | 21 |
| 38 | Efficient field emission from structured gold nanowire cathodes. <i>EPJ Applied Physics</i> , 2009, 48, 30502. | 0.3 | 19 |
| 39 | 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 |
| 40 | 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 |
| 41 | Burnout current density of bismuth nanowires. <i>Journal of Applied Physics</i> , 2008, 103, 103713. | 1.1 | 13 |
| 42 | Development of Silver Nanowires Based Highly Sensitive Amperometric Glucose Biosensor. <i>Electroanalysis</i> , 2015, 27, 1498-1506. | 1.5 | 13 |
| 43 | Tuning the Characteristics of Electrochemically Fabricated Gold Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 5659-5666. | 0.9 | 12 |
| 44 | Silver Nanoparticles Embedded Graphene Oxide Nanocomposite with Enhanced Antibacterial and Photocatalytic Degradation Activities. <i>ChemistrySelect</i> , 2019, 4, 8372-8377. | 0.7 | 12 |
| 45 | Ni and Co synergy in bimetallic nanowires for the electrochemical detection of hydrogen peroxide. <i>Nanotechnology</i> , 2021, 32, 205501. | 1.3 | 12 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | 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 |
| 50 | Effect of particle size on the magnetic properties of Ni _x Co _{1-x} Fe ₂ O ₄ (x=0.3) nanoparticles. <i>Chemical Physics Letters</i> , 2012, 549, 67-71. | 1.2 | 9 |
| 51 | 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 |
| 52 | 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 |
| 53 | Tungsten oxide multifunctional nanostructures: Enhanced environmental and sensing applications. <i>Materials Chemistry and Physics</i> , 2019, 221, 250-257. | 2.0 | 8 |
| 54 | Study of the etching characteristics of -mixed NaOH solution. <i>Radiation Measurements</i> , 2005, 40, 299-302. | 0.7 | 7 |

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|----|---|-----|-----------|
| 55 | Electrical transport properties of single crystal vanadium pentoxide nanowires. <i>Materials Chemistry and Physics</i> , 2015, 159, 19-24. | 2.0 | 7 |
| 56 | 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 |
| 57 | Preparation of oxidized Zn ²⁺ /In nanostructures for electrochemical non-enzymatic cholesterol sensing. <i>Materials Science in Semiconductor Processing</i> , 2021, 135, 106101. | 1.9 | 7 |
| 58 | 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 |
| 59 | Temperature dependent dielectric and electric modulus properties of ZnS nano particles. <i>Semiconductor Science and Technology</i> , 2017, 32, 035008. | 1.0 | 6 |
| 60 | Frequency stable dielectric constant with reduced dielectric loss of one-dimensional ZnO ²⁺ /ZnS heterostructures. <i>Nanoscale</i> , 2021, 13, 15711-15720. | 2.8 | 6 |
| 61 | Heavy ion interactions of () Pb with U. <i>Radiation Measurements</i> , 2001, 34, 227-230. | 0.7 | 5 |
| 62 | 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 |
| 63 | 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 |
| 64 | 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 |
| 65 | 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 |
| 66 | 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 |
| 67 | 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 |
| 68 | 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 |
| 69 | 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 |
| 70 | Varying Track Etch Rates along the Fission Fragments' Trajectories in CR-39 Detectors. <i>Chinese Physics Letters</i> , 2010, 27, 052903. | 1.3 | 2 |
| 71 | Oxygen vacancies boosted vanadium doped ZnO nanostructures-based voltage-switchable binary biosensor. <i>Nanotechnology</i> , 2021, 33, . | 1.3 | 2 |
| 72 | 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 |

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|----|--|-----|-----------|
| 73 | Field emission properties of gold nanowire cathodes based on polymer ion-track membranes. , 2007, , . | | 0 |
| 74 | Structural characterisation of textured gold nanowires. International Journal of Nanotechnology, 2011, 8, 855. | 0.1 | 0 |
| 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 |