

Khurram Shehzad

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,596
citations

279798

23
h-index

189892

50
g-index

66
all docs

66
docs citations

66
times ranked

4227
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Black phosphorus ink formulation for inkjet printing of optoelectronics and photonics. Nature Communications, 2017, 8, 278. | 12.8 | 311 |
| 2 | Three-dimensional macro-structures of two-dimensional nanomaterials. Chemical Society Reviews, 2016, 45, 5541-5588. | 38.1 | 280 |
| 3 | A self-powered high-performance graphene/silicon ultraviolet photodetector with ultra-shallow junction: breaking the limit of silicon?. Npj 2D Materials and Applications, 2017, 1, . | 7.9 | 211 |
| 4 | 2D Heterostructures for Ubiquitous Electronics and Optoelectronics: Principles, Opportunities, and Challenges. Chemical Reviews, 2022, 122, 6514-6613. | 47.7 | 187 |
| 5 | Graphene Hybrid Structures for Integrated and Flexible Optoelectronics. Advanced Materials, 2020, 32, e1902039. | 21.0 | 127 |
| 6 | Mechanical properties of nickel-graphene composites synthesized by electrochemical deposition. Nanotechnology, 2015, 26, 065706. | 2.6 | 116 |
| 7 | A Broadband Fluorographene Photodetector. Advanced Materials, 2017, 29, 1700463. | 21.0 | 110 |
| 8 | Effects of carbon nanotubes aspect ratio on the qualitative and quantitative aspects of frequency response of electrical conductivity and dielectric permittivity in the carbon nanotube/polymer composites. Carbon, 2013, 54, 105-112. | 10.3 | 98 |
| 9 | Room-temperature valleytronic transistor. Nature Nanotechnology, 2020, 15, 743-749. | 31.5 | 87 |
| 10 | Complementary percolation characteristics of carbon fillers based electrically percolative thermoplastic elastomer composites. Composites Science and Technology, 2011, 72, 28-35. | 7.8 | 83 |
| 11 | High-temperature thermoelectric properties of La and Fe co-doped Ca ²⁺ Co ²⁺ O misfit-layered cobaltites consolidated by spark plasma sintering. Journal of Alloys and Compounds, 2014, 588, 277-283. | 5.5 | 79 |
| 12 | Graphene charge-injection photodetectors. Nature Electronics, 2022, 5, 281-288. | 26.0 | 70 |
| 13 | Facile Synthesis of In ₂ Se ₃ Nanoflowers toward High Performance Self-Powered Broadband In ₂ Se ₃ /Si Heterojunction Photodiode. Small, 2017, 13, 1604033. | 10.0 | 64 |
| 14 | Designing an Efficient Multimode Environmental Sensor Based on Graphene-Silicon Heterojunction. Advanced Materials Technologies, 2017, 2, 1600262. | 5.8 | 55 |
| 15 | Solvent-Based Soft-Patterning of Graphene Lateral Heterostructures for Broadband High-Speed Metal-Semiconductor-Metal Photodetectors. Advanced Materials Technologies, 2017, 2, 1600241. | 5.8 | 53 |
| 16 | All-organic PANI-DBSA/PVDF dielectric composites with unique electrical properties. Journal of Materials Science, 2013, 48, 3737-3744. | 3.7 | 49 |
| 17 | High Capacity Retention Anode Material for Lithium Ion Battery. Electrochimica Acta, 2016, 211, 156-163. | 5.2 | 44 |
| 18 | Influence of carbon nanotube dimensions on the percolation characteristics of carbon nanotube/polymer composites. Journal of Applied Physics, 2014, 116, . | 2.5 | 32 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Flexible Dielectric Nanocomposites with Ultrawide Zero-Temperature Coefficient Windows for Electrical Energy Storage and Conversion under Extreme Conditions. ACS Applied Materials & Interfaces, 2017, 9, 7591-7600. | 8.0 | 29 |
| 20 | The effect of aspect ratio on the piezoresistive behavior of the multiwalled carbon nanotubes/thermoplastic elastomer nanocomposites. Journal of Applied Physics, 2013, 113, . | 2.5 | 28 |
| 21 | High-performance, flexible graphene/ultra-thin silicon ultra-violet image sensor. , 2017, , . | | 28 |
| 22 | Two percolation thresholds and remarkably high dielectric permittivity in pristine carbon nanotube/elastomer composites. Applied Nanoscience (Switzerland), 2015, 5, 969-974. | 3.1 | 27 |
| 23 | Large, Linear, and Tunable Positive Magnetoresistance of Mechanically Stable Graphene Foam—Toward High-Performance Magnetic Field Sensors. ACS Applied Materials & Interfaces, 2017, 9, 1891-1898. | 8.0 | 27 |
| 24 | Defect-induced, temperature-independent, tunable magnetoresistance of partially fluorinated graphene foam. Carbon, 2019, 143, 179-188. | 10.3 | 25 |
| 25 | A high performance broadband photodetector based on (Sn _x Sb _{1-x}) ₂ Se ₃ nanorods with enhanced electrical conductivity. Journal of Materials Chemistry C, 2018, 6, 11078-11085. | 5.5 | 24 |
| 26 | Flexible, Low Cost, and Platinum-Free Counter Electrode for Efficient Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 25353-25360. | 8.0 | 21 |
| 27 | Polyaniline/silver decorated MWCNT composites with enhanced electrical and thermal properties. Polymer Composites, 2018, 39, E1346. | 4.6 | 21 |
| 28 | Approaching the Collection Limit in Hot Electron Transistors with Ambipolar Hot Carrier Transport. ACS Nano, 2019, 13, 14191-14197. | 14.6 | 21 |
| 29 | On Refining the Relationship between Aspect Ratio and Percolation Threshold of Practical Carbon Nanotubes/Polymer Nanocomposites. Japanese Journal of Applied Physics, 2011, 50, 080214. | 1.5 | 20 |
| 30 | Effect of the carbon nanotube size dispersity on the electrical properties and pressure sensing of the polymer composites. Journal of Materials Science, 2016, 51, 11014-11020. | 3.7 | 20 |
| 31 | All-Two-Dimensional-Material Hot Electron Transistor. IEEE Electron Device Letters, 2018, 39, 634-637. | 3.9 | 19 |
| 32 | In situ synthesis of copper nanoparticles on SBA-16 silica spheres. Arabian Journal of Chemistry, 2016, 9, 537-541. | 4.9 | 17 |
| 33 | Piezoresistive Behavior of Electrically Conductive Carbon Fillers/Thermoplastic Elastomer Nanocomposites. Journal of Advanced Physics, 2013, 2, 70-74. | 0.4 | 16 |
| 34 | On Refining the Relationship between Aspect Ratio and Percolation Threshold of Practical Carbon Nanotubes/Polymer Nanocomposites. Japanese Journal of Applied Physics, 2011, 50, 080214. | 1.5 | 16 |
| 35 | Non-magnetic thin films for magnetic field position sensor. Sensors and Actuators A: Physical, 2017, 254, 89-94. | 4.1 | 15 |
| 36 | Porous SnO ₂ nanoparticles based ion chromatographic determination of non-fluorescent antibiotic (chloramphenicol) in complex samples. Scientific Reports, 2018, 8, 12327. | 3.3 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Large magnetotransport properties in mixed-dimensional van der Waals heterostructures of graphene foam. <i>Carbon</i> , 2020, 159, 648-655. | 10.3 | 15 |
| 38 | Light-induced negative differential resistance in gate-controlled graphene-silicon photodiode. <i>Applied Physics Letters</i> , 2018, 112, . | 3.3 | 14 |
| 39 | Micron-Scale Photodetectors Based on One-Dimensional Single-Crystalline Sb ₂ S ₃ Microrods: Simultaneously Improving Responsivity and Extending Spectral Response Region. <i>Journal of Physical Chemistry C</i> , 2019, 123, 810-816. | 3.1 | 14 |
| 40 | Graphene light-field camera. <i>Nature Photonics</i> , 2020, 14, 134-136. | 31.4 | 13 |
| 41 | Synthesis and antibacterial potential of hybrid nanocomposites based on polyorthochloroaniline/copper nanofiller. <i>Polymer Composites</i> , 2018, 39, 4524-4531. | 4.6 | 12 |
| 42 | Developing imprinted polymer nanoparticles for the selective separation of antidiabetic drugs. <i>Journal of Separation Science</i> , 2015, 38, 3469-3476. | 2.5 | 9 |
| 43 | Cathodic titania nanotube arrays as anode material for lithium-ion batteries. <i>Journal of Materials Science</i> , 2017, 52, 4323-4332. | 3.7 | 8 |
| 44 | Ferromagnetic (Ni) nanoparticles in CuTi-1223 superconductor composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 403, 60-67. | 2.3 | 7 |
| 45 | Synthesis of antibacterial poly(o-chloroaniline)/chromium hybrid composites with enhanced electrical conductivity. <i>Chemistry Central Journal</i> , 2018, 12, 46. | 2.6 | 7 |
| 46 | Near-field radiative heat transfer between black phosphorus and graphene sheet. <i>Materials Research Express</i> , 2019, 6, 025906. | 1.6 | 7 |
| 47 | Formation of self-ordered porous anodized alumina template for growing tungsten trioxide nanowires. <i>International Nano Letters</i> , 2015, 5, 37-41. | 5.0 | 6 |
| 48 | Tailoring electrical and thermal properties of polymethyl methacrylate-carbon nanotubes composites through polyaniline and dodecyl benzene sulphonic acid impregnation. <i>Polymer Composites</i> , 2018, 39, E1052. | 4.6 | 6 |
| 49 | Polymerization kinetics of bicyclic olefins and mechanism with symmetrical ansa-metallocene catalysts associated with active center count: relationship between their activities and structure and activation path. <i>RSC Advances</i> , 2022, 12, 15284-15295. | 3.6 | 6 |
| 50 | Structurally modified poly(vinyl alcohol) ionic composites as efficient humidity indicators. <i>Polymer Composites</i> , 2012, 33, 1018-1024. | 4.6 | 4 |
| 51 | Dielectric properties of oxygen post-annealed Cu _{0.5} Tl _{0.5} Ba ₂ Ca ₃ (Cu _{4-x} Cd _y)O ₁₂ bulk superconductor. <i>Ceramics International</i> , 2013, 39, 9591-9598. | 4.8 | 4 |
| 52 | Molybdenum disulfide grafted titania nanotube arrays as high capacity retention anode material for lithium ion batteries. <i>Applied Nanoscience (Switzerland)</i> , 2017, 7, 67-73. | 3.1 | 4 |
| 53 | Rapid assay of the comparative degradation of acetaminophen in binary and ternary combinations. <i>Arabian Journal of Chemistry</i> , 2014, 7, 522-524. | 4.9 | 3 |
| 54 | Suppression of 3D mobility of carrier and superconductivity by Y ³⁺ substitution in Cu _{0.5} Tl _{0.5} Ba ₂ (Ca _{2-x} Y _x)Cu ₃ O ₁₀ samples. <i>Ceramics International</i> , 2014, 40, 4187-4191. | 4.8 | 3 |

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|----|---|------|-----------|
| 55 | Modification of Diamond Particles for Improved Dispersion in Liquid Phase. Asian Journal of Chemistry, 2013, 25, 9840-9844. | 0.3 | 2 |
| 56 | Photodetectors: Solvent-Based Soft-Patterning of Graphene Lateral Heterostructures for Broadband High-Speed Metal-Semiconductor Metal Photodetectors (Adv. Mater. Technol. 2/2017). Advanced Materials Technologies, 2017, 2, . | 5.8 | 2 |
| 57 | Highly efficient catalytic degradation of low-density polyethylene Using a novel tungstophosphoric acid/kaolin clay composite catalyst. Turkish Journal of Chemistry, 2018, 42, . | 1.2 | 2 |
| 58 | Fabrication of Ag and Ni Nanocatalyst with Enhanced Efficiency. Journal of Chemistry, 2015, 2015, 1-4. | 1.9 | 1 |
| 59 | Photodetectors: A Broadband Fluorographene Photodetector (Adv. Mater. 22/2017). Advanced Materials, 2017, 29, . | 21.0 | 1 |
| 60 | Molecular Imprinted Titania Sol-Gel Layer for Conductometric Sensing of Nitrophenol. Sensor Letters, 2014, 12, 1682-1687. | 0.4 | 1 |
| 61 | Mechanism and properties of piezoresistive in rubber-matrix nanocomposites. , 2011, , . | | 0 |
| 62 | Enhanced Control on the Electro Deposition Through Magnetic Field Using Reverse Microemulsion as Template. Asian Journal of Chemistry, 2014, 26, 6077-6080. | 0.3 | 0 |
| 63 | Synthesis of SBA-16 Supported Catalyst for CNTs and Dispersion Study of CNTs in Polypyrrole Composite. Materials Research Society Symposia Proceedings, 2014, 1752, 95-100. | 0.1 | 0 |
| 64 | Surface Reforming of Diamond Particles by the Dispersion Enhancement in Common Liquids. Arabian Journal for Science and Engineering, 2016, 41, 97-103. | 1.1 | 0 |
| 65 | Template Assisted Synthesis of WO ₃ Nanowires. ECS Meeting Abstracts, 2013, , . | 0.0 | 0 |