# Govind Gupta

## List of Publications by Year in descending order

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|---|---|---|---|
| 244 papers | 6,663 citations | 61984 43 h-index | 95266 68 g-index |
| 247 all docs | 247 docs citations | 247 times ranked | 8585 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Multiwalled carbon nanotube/cement composites with exceptional electromagnetic interference shielding properties. Carbon, 2013, 56, 86-96. | 10.3 | 277 |
| 2 | Evolution of Hierarchical Hexagonal Stacked Plates of CuS from Liquidâ˜Liquid Interface and its Photocatalytic Application for Oxidative Degradation of Different Dyes under Indoor Lighting. Environmental Science & Technology, 2010, 44, 6313-6318. | 10.0 | 255 |
| 3 | High permittivity polyanilineâ€“barium titanate nanocomposites with excellent electromagnetic interference shielding response. Nanoscale, 2013, 5, 4330. | 5.6 | 245 |
| 4 | Faster response of NO<sub>2</sub>sensing in grapheneâ€“WO<sub>3</sub>nanocomposites. Nanotechnology, 2012, 23, 205501. | 2.6 | 224 |
| 5 | Fabrication of non-polar GaN based highly responsive and fast UV photodetector. Applied Physics Letters, 2017, 110, . | 3.3 | 185 |
| 6 | Mg3Sb2-based Zintl compound: a non-toxic, inexpensive and abundant thermoelectric material for power generation. RSC Advances, 2013, 3, 8504. | 3.6 | 133 |
| 7 | Optical and Photocatalytic Properties of Heavily F<sup>â€“</sup>-Doped SnO<sub>2</sub> Nanocrystals by a Novel Single-Source Precursor Approach. Inorganic Chemistry, 2011, 50, 5637-5645. | 4.0 | 130 |
| 8 | Correlation of sp3 and sp2 fraction of carbon with electrical, optical and nano-mechanical properties of argon-diluted diamond-like carbon films. Applied Surface Science, 2011, 257, 6804-6810. | 6.1 | 113 |
| 9 | Bimetallic Cuâ€“Ni nanoparticles of varying composition (CuNi3, CuNi, Cu3Ni). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 331, 206-212. | 4.7 | 112 |
| 10 | Growth of MoS<sub>2</sub>â€“MoO<sub>3</sub> Hybrid Microflowers via Controlled Vapor Transport Process for Efficient Gas Sensing at Room Temperature. Advanced Materials Interfaces, 2018, 5, 1800071. | 3.7 | 93 |
| 11 | A Highly Responsive Selfâ€Driven UV Photodetector Using GaN Nanoflowers. Advanced Electronic Materials, 2017, 3, 1700036. | 5.1 | 92 |
| 12 | Graphene Oxide-Coated Surface: Inhibition of Bacterial Biofilm Formation due to Specific Surfaceâ€“Interface Interactions. ACS Omega, 2017, 2, 3070-3082. | 3.5 | 84 |
| 13 | Highly selective and reversible NO<sub>2</sub> gas sensor using vertically aligned MoS<sub>2</sub> flake networks. Nanotechnology, 2018, 29, 464001. | 2.6 | 79 |
| 14 | Microstructural and electrochromic properties of tungsten oxide thin films produced by surfactant mediated electrodeposition. Applied Surface Science, 2008, 254, 2342-2352. | 6.1 | 78 |
| 15 | ZnO/GaN heterojunction based self-powered photodetectors: Influence of interfacial states on UV sensing. Applied Surface Science, 2019, 478, 1081-1089. | 6.1 | 78 |
| 16 | Graphene Quantum Dot-Sensitized ZnO-Nanorod/GaN-Nanotower Heterostructure-Based High-Performance UV Photodetectors. ACS Applied Materials & Interfaces, 2020, 12, 47038-47047. | 8.0 | 70 |
| 17 | 2D/3D Hybrid of MoS<sub>2</sub>/GaN for a High-Performance Broadband Photodetector. ACS Applied Electronic Materials, 2021, 3, 2407-2414. | 4.3 | 70 |
| 18 | Enhanced electrochemical performance of polypyrrole coated MoS 2 nanocomposites as electrode material for supercapacitor application. Journal of Electroanalytical Chemistry, 2016, 782, 278-287. | 3.8 | 69 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Fabrication of sensitive bioelectrode based on atomically thin CVD grown graphene for cancer biomarker detection. Biosensors and Bioelectronics, 2018, 105, 173-181. | 10.1 | 69 |
| 20 | Functionalized Molybdenum Disulfide Nanosheets for 0Dâ€“2D Hybrid Nanostructures: Photoinduced Charge Transfer and Enhanced Photoresponse. Journal of Physical Chemistry Letters, 2017, 8, 1729-1738. | 4.6 | 67 |
| 21 | Rare earth metal oxide (RE<sub>2</sub>O<sub>3</sub>; RE = Nd, Gd, and Yb) incorporated polyindole composites: gravimetric and volumetric capacitive performance for supercapacitor applications. New Journal of Chemistry, 2018, 42, 5295-5308. | 2.8 | 64 |
| 22 | Surface characterization of plasma-treated and PEG-grafted PDMS for micro fluidic applications. Vacuum, 2007, 81, 1094-1100. | 3.5 | 63 |
| 23 | Inorganicâ€“organic nanohybrid of MoS2-PANI for advanced photocatalytic application. International Nano Letters, 2019, 9, 127-139. | 5.0 | 63 |
| 24 | Electronic Structure and Room Temperature Ferromagnetism in Gdâ€doped Cerium Oxide Nanoparticles for Hydrogen Generation via Photocatalytic Water Splitting. Global Challenges, 2019, 3, 1800090. | 3.6 | 62 |
| 25 | Binary Feâ€“Co Alloy Nanoparticles Showing Significant Enhancement in Electrocatalytic Activity Compared with Bulk Alloys. Journal of Physical Chemistry C, 2010, 114, 18779-18784. | 3.1 | 60 |
| 26 | Pit assisted oxygen chemisorption on GaN surfaces. Physical Chemistry Chemical Physics, 2015, 17, 15201-15208. | 2.8 | 60 |
| 27 | Investigation of cation (Sn2+) and anion (N3â€“) substitution in favor of visible light photocatalytic activity in the layered perovskite K2La2Ti3O10. Journal of Hazardous Materials, 2011, 189, 502-508. | 12.4 | 59 |
| 28 | Current advances in solar-blind photodetection technology: using Ga<sub>2</sub>O<sub>3</sub> and AlGaN. Journal of Materials Chemistry C, 2022, 10, 1573-1593. | 5.5 | 59 |
| 29 | Extenuation of Stress and Defects in GaN Films Grown on a Metalâ€“Organic Chemical Vapor Deposition-GaN/c-Sapphire Substrate by Plasma-Assisted Molecular Beam Epitaxy. Crystal Growth and Design, 2015, 15, 2144-2150. | 3.0 | 56 |
| 30 | Structural, optical and magnetic properties of Fe-doped CeO2 samples probed using X-ray photoelectron spectroscopy. Journal of Materials Science: Materials in Electronics, 2018, 29, 10141-10153. | 2.2 | 55 |
| 31 | Fabrication of GaN nano-towers based self-powered UV photodetector. Scientific Reports, 2021, 11, 10859. | 3.3 | 55 |
| 32 | GaN Nanotowers Grown on Si (111) and Functionalized with Au Nanoparticles and ZnO Nanorods for Highly Responsive UV Photodetectors. ACS Applied Nano Materials, 2020, 3, 8104-8116. | 5.0 | 53 |
| 33 | Studies of nanostructured copper/hydrogenated amorphous carbon multilayer films. Journal of Alloys and Compounds, 2011, 509, 1285-1293. | 5.5 | 51 |
| 34 | In-Situ Integration of Waste Coconut Shell Derived Activated Carbon/Polypyrrole/Rare Earth Metal Oxide (Eu2O3): A Novel Step Towards Ultrahigh Volumetric Capacitance. Electrochimica Acta, 2017, 251, 532-545. | 5.2 | 50 |
| 35 | Enlightening gallium nitride-based UV photodetectors. Journal of Materials Chemistry C, 2020, 8, 12348-12354. | 5.5 | 50 |
| 36 | Surface chemistry and electronic structure of nonpolar and polar GaN films. Applied Surface Science, 2015, 345, 440-447. | 6.1 | 49 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Nickel-shell assisted growth of nickel-cobalt hydroxide nanofibres and their symmetric/asymmetric supercapacitive characteristics. Journal of Power Sources, 2016, 325, 762-771. | 7.8 | 49 |
| 38 | GaN-UV photodetector integrated with asymmetric metal semiconductor metal structure for enhanced responsivity. Journal of Materials Science: Materials in Electronics, 2018, 29, 8958-8963. | 2.2 | 49 |
| 39 | Agâ€“Au alloy nanoparticles prepared by electro-exploding wire technique. Journal of Nanoparticle Research, 2008, 10, 1027-1036. | 1.9 | 48 |
| 40 | Probing a Bifunctional Luminomagnetic Nanophosphor for Biological Applications: a Photoluminescence and Timeâ€Resolved Spectroscopic Study. Small, 2011, 7, 1767-1773. | 10.0 | 48 |
| 41 | High yield synthesis of electrolyte heating assisted electrochemically exfoliated graphene for electromagnetic interference shielding applications. RSC Advances, 2015, 5, 19074-19081. | 3.6 | 47 |
| 42 | Boron-doped few-layer graphene nanosheet gas sensor for enhanced ammonia sensing at room temperature. RSC Advances, 2020, 10, 1007-1014. | 3.6 | 46 |
| 43 | Effect of nominal doping of Ag and Ni on the crystalline structure and photo-catalytic properties of mesoporous titania. Materials Chemistry and Physics, 2010, 124, 600-608. | 4.0 | 45 |
| 44 | Effect of Ni doping on the microstructure and high Curie temperature ferromagnetism in solâ€“gel derived titania powders. Materials Chemistry and Physics, 2012, 133, 471-479. | 4.0 | 45 |
| 45 | Size and alloying induced shift in core and valence bands of Pd-Ag and Pd-Cu nanoparticles. Journal of Applied Physics, 2014, 115, . | 2.5 | 45 |
| 46 | Electrochemical and magnetic properties of nanostructured CoMn<sub>2</sub>O<sub>4</sub>and Co<sub>2</sub>MnO<sub>4</sub>. RSC Advances, 2015, 5, 84988-84998. | 3.6 | 45 |
| 47 | Environment-Friendly Mesoporous Magnetite Nanoparticles-Based Hydroelectric Cell. Journal of Physical Chemistry C, 2018, 122, 5908-5916. | 3.1 | 45 |
| 48 | Turning Hazardous Diesel Soot into High Performance Carbon/MnO<sub>2</sub> Supercapacitive Energy Storage Material. ACS Sustainable Chemistry and Engineering, 2017, 5, 450-459. | 6.7 | 43 |
| 49 | Au-Nanoplasmonics-Mediated Surface Plasmon-Enhanced GaN Nanostructured UV Photodetectors. ACS Omega, 2020, 5, 14535-14542. | 3.5 | 43 |
| 50 | Current Transport and Band Alignment Study of MoS<sub>2</sub>/GaN and MoS<sub>2</sub>/AlGaN Heterointerfaces for Broadband Photodetection Application. ACS Applied Electronic Materials, 2020, 2, 710-718. | 4.3 | 43 |
| 51 | Synthesis of hydrophilic carbon black; role of hydrophilicity in maintaining the hydration level and protonic conduction. RSC Advances, 2013, 3, 3917. | 3.6 | 42 |
| 52 | Ultrafast photoresponse and enhanced photoresponsivity of Indium Nitride based broad band photodetector. Solar Energy Materials and Solar Cells, 2017, 172, 376-383. | 6.2 | 42 |
| 53 | A high-performance hydrogen sensor based on a reverse-biased MoS<sub>2</sub>/GaN heterojunction. Nanotechnology, 2019, 30, 314001. | 2.6 | 42 |
| 54 | Redox behavior and optical response of nanostructured poly(3,4-ethylenedioxythiophene) films grown in a camphorsulfonic acid based micellar solution. Electrochimica Acta, 2008, 53, 3189-3199. | 5.2 | 41 |

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|---|---|---|---|
| 55 | Charge transfer, lattice distortion, and quantum confinement effects in Pd, Cu, and Pdâ€“Cu nanoparticles; size and alloying induced modifications in binding energy. Applied Physics Letters, 2011, 98, . | 3.3 | 40 |
| 56 | Enhanced Electrocatalytic Activity of Copperâ€“Cobalt Nanostructures. Journal of Physical Chemistry C, 2011, 115, 14526-14533. | 3.1 | 39 |
| 57 | Colloidal lead-free Cs2AgBiBr6 double perovskite nanocrystals: Synthesis, uniform thin-film fabrication, and application in solution-processed solar cells. Nano Research, 2021, 14, 1126-1134. | 10.4 | 39 |
| 58 | Electro-optical response of tungsten oxide thin film nanostructures processed by a template-assisted electrodeposition route. Acta Materialia, 2007, 55, 6095-6107. | 7.9 | 37 |
| 59 | Surface-Engineered Nanostructure-Based Efficient Nonpolar GaN Ultraviolet Photodetectors. ACS Omega, 2018, 3, 2304-2311. | 3.5 | 37 |
| 60 | Selective gas sensing response from different loading of Ag in solâ€“gel mesoporous titania powders. Sensors and Actuators B: Chemical, 2011, 159, 112-120. | 7.8 | 36 |
| 61 | Phase control of nanostructured iron oxide for application to biosensor. Journal of Materials Chemistry B, 2013, 1, 464-474. | 5.8 | 36 |
| 62 | Defect induced broadband visible to near-infrared luminescence in ZnAl2O4 nanocrystals. Applied Surface Science, 2019, 480, 945-950. | 6.1 | 36 |
| 63 | Ultra-thin GaN nanostructures based self-powered ultraviolet photodetector via non-homogeneous Au-GaN interfaces. Optical Materials, 2020, 102, 109820. | 3.6 | 36 |
| 64 | Layered vanadium oxide nanofibers as impressive electrocatalyst for hydrogen evolution reaction in acidic medium. Electrochimica Acta, 2019, 312, 89-99. | 5.2 | 34 |
| 65 | Correlation of growth temperature with stress, defect states and electronic structure in an epitaxial GaN film grown on c-sapphire via plasma MBE. Physical Chemistry Chemical Physics, 2016, 18, 8005-8014. | 2.8 | 33 |
| 66 | Photoconductivity and characterization of nitrogen incorporated hydrogenated amorphous carbon thin films. Journal of Applied Physics, 2012, 112, . | 2.5 | 31 |
| 67 | Optical band gap tuning of Ag doped Ge2Sb2Te5 thin films. Journal of Materials Science: Materials in Electronics, 2017, 28, 11300-11305. | 2.2 | 31 |
| 68 | Edge enriched cobalt ferrite nanorods for symmetric/asymmetric supercapacitive charge storage. Electrochimica Acta, 2018, 283, 708-717. | 5.2 | 31 |
| 69 | Structural, vibrational and electronic properties of CuO nanoparticles synthesized via exploding wire technique. Ceramics International, 2018, 44, 2478-2484. | 4.8 | 30 |
| 70 | Probing the correlation between structure, carrier dynamics and defect states of epitaxial GaN film on (112l„0) sapphire grown by rf-molecular beam epitaxy. RSC Advances, 2015, 5, 73261-73267. | 3.6 | 29 |
| 71 | Bio-functionalization of grade V titanium alloy with type I human collagen for enhancing and promoting human periodontal fibroblast cell adhesion â€“ an in-vitro study. Colloids and Surfaces B: Biointerfaces, 2018, 161, 1-9. | 5.0 | 29 |
| 72 | Oxygen vacancy induced electrical conduction and room temperature ferromagnetism in system BaSn<sub>1â^'x</sub>Ni<sub>x</sub>O<sub>3</sub>(0â€‰â€‰â©½â€‰â€‰xâ€‰â€‰â©½â€‰0.2 Express, 2017, 4, 116304. | | |

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| 73 | Low bias operated, fast response SnSe thin film Vis-NIR photodetector on glass substrate using one-step thermal evaporation technique. Journal of Alloys and Compounds, 2021, 879, 160370. | 5.5 | 28 |
| 74 | XPS investigation of ion beam induced conversion of GaAs(001) surface into GaN overlayer. Applied Surface Science, 2009, 256, 517-520. | 6.1 | 27 |
| 75 | Application of KZnF<sub>3</sub> as a Single Source Precursor for the Synthesis of Nanocrystals of ZnO<sub>2</sub>:F and ZnO:F; Synthesis, Characterization, Optical, and Photocatalytic Properties. Journal of Physical Chemistry C, 2011, 115, 10131-10139. | 3.1 | 27 |
| 76 | Novel borothermal process for the synthesis of nanocrystalline oxides and borides of niobium. Dalton Transactions, 2011, 40, 7879. | 3.3 | 27 |
| 77 | High transmittance contrast in amorphous to hexagonal phase of Ge2Sb2Te5: Reversible NIR-window. Applied Physics Letters, 2017, 111, . | 3.3 | 27 |
| 78 | A strategy to design lanthanide doped dual-mode phosphor mediated spectral convertor for solar cell applications. Journal of Luminescence, 2018, 196, 207-213. | 3.1 | 27 |
| 79 | Electronic states of self stabilized L10 FePt alloy nanoparticles. Applied Physics A: Materials Science and Processing, 2012, 109, 403-408. | 2.3 | 26 |
| 80 | Role of surface composition in morphological evolution of GaAs nano-dots with low-energy ion irradiation. Nanoscale Research Letters, 2012, 7, 552. | 5.7 | 26 |
| 81 | Effect of Metal Contacts on a GaN/Sapphire-Based MSM Ultraviolet Photodetector. Journal of Electronic Materials, 2018, 47, 6086-6090. | 2.2 | 26 |
| 82 | Preparation of nanocrystalline Pd/SnO2 thin films deposited on alumina substrate by reactive magnetron sputtering for efficient CO gas sensing. Materials Research Bulletin, 2022, 148, 111692. | 5.2 | 26 |
| 83 | Increase in the Thermoelectric Efficiency of the Disordered Phase of Layered Antiferromagnetic CuCrS2. Journal of Electronic Materials, 2011, 40, 2368-2373. | 2.2 | 25 |
| 84 | Recent progress of flexible NO2 and NH3 gas sensors based on transition metal dichalcogenides for room temperature sensing. Materials Today Chemistry, 2022, 23, 100726. | 3.5 | 25 |
| 85 | Reduction of Rocksalt Phase in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Ag</mml:mi></mml:math> -Doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Ge</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Sb</mml:mi><mml:mi><mml:n . A Potential Material for Reversible Near-Infrared Window. Physical Review Applied, 2018, 10, . | 3.8 | 24 |
| 86 | Enhanced near-infrared luminescence in zinc aluminate bestowed by fuel-blended combustion approach. Journal of Alloys and Compounds, 2019, 797, 148-158. | 5.5 | 24 |
| 87 | Correlation of donor-acceptor pair emission on the performance of GaN-based UV photodetector. Materials Science in Semiconductor Processing, 2019, 98, 59-64. | 4.0 | 24 |
| 88 | New Approach to Clean GaN Surfaces. Materials Focus, 2014, 3, 218-223. | 0.4 | 22 |
| 89 | Effect of growth temperature on defects in epitaxial GaN film grown by plasma assisted molecular beam epitaxy. AIP Advances, 2014, 4, 027114. | 1.3 | 22 |
| 90 | Wet chemical etching induced stress relaxed nanostructures on polar & non-polar epitaxial GaN films. Physical Chemistry Chemical Physics, 2017, 19, 8787-8801. | 2.8 | 22 |

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| 91 | Core/Shell Nanocrystal Tailored Carrier Dynamics in Hysteresisless Perovskite Solar Cells with âˆ¼20% Efficiency and Long Operational Stability. Journal of Physical Chemistry Letters, 2020, 11, 591-600. | 4.6 | 21 |
| 92 | Highly efficient luminescence from hybrid structures of ZnO/multi-walled carbon nanotubes for high performance display applications. Nanotechnology, 2010, 21, 475701. | 2.6 | 20 |
| 93 | Room temperature ferromagnetism in solâ€“gel prepared Co-doped ZnO. Materials Science in Semiconductor Processing, 2012, 15, 314-318. | 4.0 | 20 |
| 94 | Facile synthesis and photoluminescence spectroscopy of 3D-triangular GaN nano prism islands. Dalton Transactions, 2014, 43, 11855-11861. | 3.3 | 20 |
| 95 | Epitaxial growth of GaN nanostructure by PA-MBE for UV detection application. Applied Surface Science, 2018, 449, 186-192. | 6.1 | 20 |
| 96 | Improved optical properties of ion beam irradiated (K,Na)NbO3 thin films. Journal of Alloys and Compounds, 2020, 823, 153794. | 5.5 | 20 |
| 97 | Investigating the role of oxygen and related defects in the self-biased and moderate-biased performance of Î²-Ga<sub>2</sub>O<sub>3</sub> solar-blind photodetectors. Journal Physics D: Applied Physics, 2021, 54, 165102. | 2.8 | 20 |
| 98 | Formation of Sb submonolayer phases on high index Si(5512) surface. Surface Science, 2005, 596, 206-211. | 1.9 | 19 |
| 99 | A study of the temperature dependence of adsorption and silicidation kinetics at the Mg/Si(111) interface. Thin Solid Films, 2007, 515, 8192-8196. | 1.8 | 19 |
| 100 | DNA hybridization on silicon nanowires. Thin Solid Films, 2010, 519, 1151-1155. | 1.8 | 19 |
| 101 | CuO Barrier Limited Corrosion of Solid Cu<sub>2</sub>O Leading to Preferential Transport of Cu(I) Ion for Hollow Cu<sub>7</sub>S<sub>4</sub> Cube Formation. Journal of Physical Chemistry C, 2011, 115, 12275-12282. | 3.1 | 19 |
| 102 | Effect of lanthanum (La<sup>3+</sup>) doping on the structural and electrical properties of double perovskite Sr<sub>2</sub>NiMoO<sub>6</sub>. RSC Advances, 2016, 6, 22094-22102. | 3.6 | 19 |
| 103 | Epitaxial growth of high In-content In 0.41 Ga 0.59 N/GaN heterostructure on (11â€“20) Al 2 O 3 substrate. Journal of Alloys and Compounds, 2016, 658, 470-475. | 5.5 | 19 |
| 104 | Influence of metallic surface states on electron affinity of epitaxial AlN films. Applied Surface Science, 2017, 407, 255-259. | 6.1 | 19 |
| 105 | Determination of band alignment at two-dimensional MoS2/Si van der Waals heterojunction. Journal of Applied Physics, 2018, 123, . | 2.5 | 19 |
| 106 | Magnetron configurations dependent surface properties of SnO2 thin films deposited by sputtering process. Vacuum, 2020, 177, 109353. | 3.5 | 19 |
| 107 | Performance analysis of anomalous photocatalytic activity of Cr-doped TiO2 nanoparticles [Cr(x)TiO2(1â^'x)]. Applied Physics A: Materials Science and Processing, 2020, 126, 1. | 2.3 | 19 |
| 108 | Electronic structure analysis of GaN films grown on r- and a-plane sapphire. Journal of Alloys and Compounds, 2015, 645, 230-234. | 5.5 | 18 |

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|---|---|---|---|
| 109 | Carrier relaxation dynamics in defect states of epitaxial GaN/AlN/Si using ultrafast transient absorption spectroscopy. RSC Advances, 2015, 5, 83969-83975. | 3.6 | 18 |
| 110 | Electrical, Thermal and Spectroscopic Characterization of Bulk Bi2Se3 Topological Insulator. Journal of Superconductivity and Novel Magnetism, 2017, 30, 2031-2036. | 1.8 | 18 |
| 111 | Boosting Sensing Performance of Vacancy-Containing Vertically Aligned MoS<sub>2</sub> Using rGO Particles. IEEE Sensors Journal, 2019, 19, 10214-10220. | 4.7 | 18 |
| 112 | Impact on photon-assisted charge carrier transport by engineering electrodes of GaN based UV photodetectors. Journal of Alloys and Compounds, 2019, 785, 883-890. | 5.5 | 18 |
| 113 | Phase dependent radiation hardness and performance analysis of amorphous and polycrystalline Ga2O3 solar-blind photodetector against swift heavy ion irradiation. Journal of Applied Physics, 2020, 128, . | 2.5 | 18 |
| 114 | Room temperature synthesis of perovskite (MAPbI3) single crystal by anti-solvent assisted inverse temperature crystallization method. Journal of Crystal Growth, 2020, 537, 125598. | 1.5 | 18 |
| 115 | Adsorption induced faceting and superstructural phase diagram of the Sb/Si(5512) interface. Surface Science, 2006, 600, 2745-2751. | 1.9 | 17 |
| 116 | Electronic interaction and bipolar resistive switching in copper oxide-multilayer graphene hybrid interface: Graphene as an oxygen ion storage and blocking layer. Applied Physics Letters, 2011, 99, 222109. | 3.3 | 17 |
| 117 | Nanostructured GaN and AlGaN/GaN heterostructure for catalyst-free low-temperature CO sensing. Applied Surface Science, 2019, 481, 379-384. | 6.1 | 17 |
| 118 | Excitation energy dependent switchable emission in SrZnO<sub>2</sub> nanophosphors: XAS and luminescence studies. Journal of Materials Chemistry C, 2020, 8, 3147-3155. | 5.5 | 17 |
| 119 | SnO2/Au multilayer heterostructure for efficient CO sensing. Materials Chemistry and Physics, 2020, 244, 122741. | 4.0 | 17 |
| 120 | Role of growth temperature on formation of single crystalline GaN nanorods on flexible titanium foil by laser molecular beam epitaxy. Journal of Crystal Growth, 2019, 509, 23-28. | 1.5 | 16 |
| 121 | Influence of active nitrogen species on surface and optical properties of epitaxial GaN films. Journal of Alloys and Compounds, 2016, 661, 461-465. | 5.5 | 15 |
| 122 | Clustering and layering of In adatoms on low and high index silicon surfaces: A comparative study. Surface Science, 2010, 604, 1972-1977. | 1.9 | 14 |
| 123 | Stabilization of Mn(iv) in nanostructured zinc manganese oxide and their facile transformation from nanospheres to nanorods. Journal of Materials Chemistry, 2011, 21, 8566. | 6.7 | 14 |
| 124 | Precursor ratio optimizations for the synthesis of colloidal CZTS nanoparticles for photocatalytic degradation of malachite green. Journal of Physics and Chemistry of Solids, 2018, 122, 8-18. | 4.0 | 14 |
| 125 | Assessment of optical, mechanical and nonlinear properties of potassium acid phthalate single crystal: a potential candidate for optoelectronic applications. Materials Research Express, 2020, 7, 015705. | 1.6 | 14 |
| 126 | Controlled growth of GaN nanorods directly on flexible Mo metal foil by laser molecular beam epitaxy. Materials Science in Semiconductor Processing, 2020, 111, 104988. | 4.0 | 14 |

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|---|---|---|---|
| 127 | Room temperature sputtered nanocrystalline SnO2 thin films sensitized with Pd nanoparticles for high performance CO gas sensing application. Optical Materials, 2022, 128, 112362. | 3.6 | 14 |
| 128 | Bipolar resistive switching properties of Ti-CuO/(hexafluoro-hexa-peri-hexabenzocoronene)-Cu hybrid interface device: Influence of electronic nature of organic layer. Journal of Applied Physics, 2013, 113, . | 2.5 | 13 |
| 129 | Role of nanowire length on the performance of a self-driven NIR photodetector based on mono/bi-layer graphene (camphor)/Si-nanowire Schottky junction. Nanotechnology, 2020, 31, 225208. | 2.6 | 13 |
| 130 | Bulk growth of Iminodiacetic acid single crystal and its characterization for nonlinear optical applications. Bulletin of Materials Science, 2021, 44, 1. | 1.7 | 13 |
| 131 | Investigation on synthesis, growth, Hirshfeld surface and third order nonlinear optical properties of Urea-Succinic Acid single crystal: A potential candidate for self-defocusing lasing application. Optical Materials, 2022, 124, 112051. | 3.6 | 13 |
| 132 | van der Waals epitaxy of transition metal dichalcogenides via molecular beam epitaxy: looking back and moving forward. Materials Advances, 2022, 3, 6142-6156. | 5.4 | 13 |
| 133 | Physico-chemical characteristics of high performance polymer modified by low and atmospheric pressure plasma. Surface Engineering and Applied Electrochemistry, 2012, 48, 117-126. | 0.8 | 12 |
| 134 | Light Induced Electron-Phonon Scattering Mediated Resistive Switching in Nanostructured Nb Thin Film Superconductor. Scientific Reports, 2017, 7, 881. | 3.3 | 12 |
| 135 | X-ray Photoelectron Spectroscopy, Magnetotransport and Magnetisation Study of Nb2PdS5 Superconductor. Journal of Superconductivity and Novel Magnetism, 2018, 31, 943-949. | 1.8 | 12 |
| 136 | Influence of temperature and Al/N ratio on structural, chemical & electronic properties of epitaxial AlN films grown via PAMBE. Applied Surface Science, 2018, 455, 919-923. | 6.1 | 12 |
| 137 | Studies of Ultrafast Transient Absorption Spectroscopy of Gold Nanorods in an Aqueous Solution. ACS Omega, 2019, 4, 12626-12631. | 3.5 | 12 |
| 138 | Significantly high electromagnetic shielding effectiveness in polypyrrole synthesized by ecoâ€friendly and costâ€effective technique. Journal of Applied Polymer Science, 2020, 137, 49566. | 2.6 | 12 |
| 139 | Growth and luminescence characteristics of zinc oxide thin films deposited by ALD technique. Journal of Luminescence, 2021, 233, 117797. | 3.1 | 12 |
| 140 | Plasmonic Au Nanoparticles Sensitized MoSâ„‚ for Bifunctional NOâ„‚ and Light Sensing. IEEE Sensors Journal, 2021, 21, 4190-4197. | 4.7 | 12 |
| 141 | Influence of Temperature on Photodetection Properties of Honeycombâ€like GaN Nanostructures. Advanced Materials Interfaces, 2021, 8, 2100593. | 3.7 | 12 |
| 142 | A Comparative Photoelectron Spectroscopic Analysis of MBE and MOCVD Grown Epitaxial GaN Films. Science of Advanced Materials, 2015, 7, 546-551. | 0.7 | 12 |
| 143 | Dimension dependency of tungsten oxide for efficient gas sensing. Environmental Science: Nano, 2022, 9, 40-60. | 4.3 | 12 |
| 144 | Band alignment and Schottky behaviour of InN/GaN heterostructure grown by low-temperature low-energy nitrogen ion bombardment. RSC Advances, 2014, 4, 27308-27314. | 3.6 | 11 |

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|---|---|---|---|
| 145 | Dependence of Al incorporation on growth temperature during laser molecular beam epitaxy of AlxGa1â"xN epitaxial layers on sapphire (0001). Journal of Alloys and Compounds, 2018, 739, 122-128. | 5.5 | 11 |
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