

Govind Gupta

List of Publications by Year in descending order

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244
papers

6,663
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61984

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all docs

247
docs citations

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times ranked

8585
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis growth and studies on optical, thermal and terahertz analyses of bulk size sodium acid phthalate single crystal: a metal-organic material for nonlinear optical applications. Journal of Thermal Analysis and Calorimetry, 2022, 147, 1167-1175.	3.6	8
2	Unraveling the cause of degradation in Cu(In,Ga)Se ₂ photovoltaics under potential induced degradation. Nano Select, 2022, 3, 157-164.	3.7	3
3	Rapid thermal annealing induced engineering of surface and photoluminescence properties of (K,Na)NbO ₃ thin films for optoelectronic applications. Applied Surface Science, 2022, 575, 151794.	6.1	8
4	Dimension dependency of tungsten oxide for efficient gas sensing. Environmental Science: Nano, 2022, 9, 40-60.	4.3	12
5	Influence of current conduction paths and native defects on gas sensing properties of polar and non-polar GaN. Journal of Alloys and Compounds, 2022, 898, 162808.	5.5	10
6	Recent progress of flexible NO ₂ and NH ₃ gas sensors based on transition metal dichalcogenides for room temperature sensing. Materials Today Chemistry, 2022, 23, 100726.	3.5	25
7	Preparation of nanocrystalline Pd/SnO ₂ thin films deposited on alumina substrate by reactive magnetron sputtering for efficient CO gas sensing. Materials Research Bulletin, 2022, 148, 111692.	5.2	26
8	Current advances in solar-blind photodetection technology: using Ga ₂ O ₃ and AlGaIn. Journal of Materials Chemistry C, 2022, 10, 1573-1593.	5.5	59
9	CO sensing properties of nanostructured WSe ₂ /GaN and MoSe ₂ /GaN based gas sensors. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 139, 115147.	2.7	6
10	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
11	Low-voltage, self-powered and broadband photodetector with Ohmic, transparent and cost-effective AZO electrodes on vertical aligned MoS ₂ flakes. Surfaces and Interfaces, 2022, 30, 101813.	3.0	6
12	Room temperature sputtered nanocrystalline SnO ₂ thin films sensitized with Pd nanoparticles for high performance CO gas sensing application. Optical Materials, 2022, 128, 112362.	3.6	14
13	Effect of shock wave on optical properties of Propyl p-hydroxybenzoate single crystal: A self-defocusing third order nonlinear optical material. Journal of Physics and Chemistry of Solids, 2022, 167, 110768.	4.0	8
14	Impact of high energy ion irradiation on structural, morphological, optical and photoluminescence properties of MgTiO ₃ thin films. Journal of Luminescence, 2022, 249, 119051.	3.1	6
15	Surface nanopatterning of amorphous gallium oxide thin film for enhanced solar-blind photodetection. Nanotechnology, 2022, 33, 375302.	2.6	7
16	van der Waals epitaxy of transition metal dichalcogenides <i>via</i> molecular beam epitaxy: looking back and moving forward. Materials Advances, 2022, 3, 6142-6156.	5.4	13
17	Growth and luminescence characteristics of zinc oxide thin films deposited by ALD technique. Journal of Luminescence, 2021, 233, 117797.	3.1	12
18	Colloidal lead-free Cs ₂ AgBiBr ₆ double perovskite nanocrystals: Synthesis, uniform thin-film fabrication, and application in solution-processed solar cells. Nano Research, 2021, 14, 1126-1134.	10.4	39

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19	Plasmonic Au Nanoparticles Sensitized MoS ₂ , for Bifunctional NO ₂ , and Light Sensing. IEEE Sensors Journal, 2021, 21, 4190-4197.	4.7	12
20	Inclination of screw dislocations on the performance of homoepitaxial GaN based UV photodetectors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 263, 114879.	3.5	9
21	Effect of ALD window on thermal ALD deposited HfO _x /Si interface for silicon surface passivation. Materials Today: Proceedings, 2021, 46, 5761-5765.	1.8	1
22	Studies on the third-order nonlinear behaviour of Itaconic acid single crystal using femto-second laser. Journal of Materials Science: Materials in Electronics, 2021, 32, 3247-3254.	2.2	4
23	A comparative study on structural and optical properties of ZnO nanoparticles prepared by three different synthesis methods. Materials Today: Proceedings, 2021, 43, 3856-3861.	1.8	4
24	Investigating the growth of AlGaIn/AlN heterostructure by modulating the substrate temperature of AlN buffer layer. SN Applied Sciences, 2021, 3, 1.	2.9	9
25	Corrigendum to "Magnetron configurations dependent surface properties of SnO ₂ thin films deposited by sputtering process" [Vacuum 177 (2020) 109353]. Vacuum, 2021, 184, 109885.	3.5	0
26	Investigating the role of oxygen and related defects in the self-biased and moderate-biased performance of In ₂ Ga ₂ O ₃ solar-blind photodetectors. Journal Physics D: Applied Physics, 2021, 54, 165102.	2.8	20
27	Investigation of band offset at PEDOT: PSS/GaN interface. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	2
28	Bulk growth of Iminodiacetic acid single crystal and its characterization for nonlinear optical applications. Bulletin of Materials Science, 2021, 44, 1.	1.7	13
29	Optical excitations and ferromagnetic ordering in Sm doped WO ₃ at dilute concentrations. Materials Today Communications, 2021, 26, 101721.	1.9	3
30	Thermally induced cation ordering in ZnAl ₂ O ₄ ·Mg ²⁺ , Fe ³⁺ for sensing thermal history through photoluminescence. Journal of Materials Science, 2021, 56, 12111-12120.	3.7	2
31	An insight into the surface engineering of colloidal PbSe quantum dots for polymer hybrid photovoltaic applications. Journal of Sol-Gel Science and Technology, 2021, 99, 295-314.	2.4	1
32	Fabrication of GaN nano-towers based self-powered UV photodetector. Scientific Reports, 2021, 11, 10859.	3.3	55
33	Study of light-emitting defects induced by 100 MeV Ag ion irradiation in potassium sodium niobate thin films. Journal of Luminescence, 2021, 233, 117909.	3.1	7
34	2D/3D Hybrid of MoS ₂ /GaN for a High-Performance Broadband Photodetector. ACS Applied Electronic Materials, 2021, 3, 2407-2414.	4.3	70
35	Influence of Temperature on Photodetection Properties of Honeycomb-like GaN Nanostructures. Advanced Materials Interfaces, 2021, 8, 2100593.	3.7	12
36	Sequential tunability of red and white light emissions in Sm-activated ZnO phosphors by up- and downconversion mechanisms. Journal of Applied Physics, 2021, 129, .	2.5	4

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37	Comparison of co-operative down-conversion luminescence in Pr ³⁺ , Yb ³⁺ doped CaF ₂ and SrF ₂ . <i>Optik</i> , 2021, 240, 166814.	2.9	3
38	Elemental, Optical, and Time-Domain Terahertz Spectroscopy Studies on Methyl p-Hydroxybenzoate Single Crystal for THz Applications. <i>Journal of Electronic Materials</i> , 2021, 50, 6121-6127.	2.2	3
39	Role of Fe ³⁺ in altering the degrees of freedom in ZnAl ₂ O ₄ spinel. <i>Journal of Applied Physics</i> , 2021, 130, 055103.	2.5	2
40	Impact of thermal oxidation on the electrical transport and chemical & electronic structure of the GaN film grown on Si and sapphire substrates. <i>Applied Surface Science Advances</i> , 2021, 5, 100106.	6.8	11
41	Charge transfer-induced fast blue emission in SrZnO ₂ :Ce. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	4
42	Low bias operated, fast response SnSe thin film Vis-NIR photodetector on glass substrate using one-step thermal evaporation technique. <i>Journal of Alloys and Compounds</i> , 2021, 879, 160370.	5.5	28
43	Switchable cool and cold white emission from dysprosium doped SrZnO ₂ . <i>Journal of Physics Condensed Matter</i> , 2021, 33, 035703.	1.8	7
44	Influence of magnetron configurations on the structure and properties of room temperature sputtered ZnO thin films. <i>Physica Scripta</i> , 2021, 96, 015811.	2.5	7
45	Electronic properties and oxygen chemisorption at Al _x Ga _{1-x} N surfaces. <i>Materials Chemistry and Physics</i> , 2020, 239, 122106.	4.0	4
46	Boron-doped few-layer graphene nanosheet gas sensor for enhanced ammonia sensing at room temperature. <i>RSC Advances</i> , 2020, 10, 1007-1014.	3.6	46
47	Core/Shell Nanocrystal Tailored Carrier Dynamics in Hysteresisless Perovskite Solar Cells with ~1/420% Efficiency and Long Operational Stability. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 591-600.	4.6	21
48	Assessment of optical, mechanical and nonlinear properties of potassium acid phthalate single crystal: a potential candidate for optoelectronic applications. <i>Materials Research Express</i> , 2020, 7, 015705.	1.6	14
49	Spectral investigations of less explored rod-shaped green emitting Ba ₂ SiO ₄ :Tb ³⁺ phosphors for LED and photovoltaic applications. <i>Optik</i> , 2020, 203, 164015.	2.9	8
50	Oxygen vacancies induced photoluminescence in SrZnO_2 nanophosphors probed by theoretical and experimental analysis. <i>Scientific Reports</i> , 2020, 10, 17364.	3.3	8
51	Excitation induced enhancement of spectral response and energy transfer mechanisms in Fe/Sm modified ZnO phosphors. <i>Journal of Applied Physics</i> , 2020, 128, 143104.	2.5	4
52	Self-Induced Growth of GaN Nanowall Structure on Si (111) by Laser Molecular Beam Epitaxy. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 3919-3924.	0.9	0
53	Phase dependent radiation hardness and performance analysis of amorphous and polycrystalline Ga ₂ O ₃ solar-blind photodetector against swift heavy ion irradiation. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	18
54	Self-induced growth of GaN nanorod assembly on flexible niobium metal foil using laser molecular beam epitaxy. <i>Vacuum</i> , 2020, 181, 109643.	3.5	6

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55	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
56	Enlightening gallium nitride-based UV photodetectors. Journal of Materials Chemistry C, 2020, 8, 12348-12354.	5.5	50
57	Detailed chemical mechanism of the phase transition in nano-SrTiO ₃ perovskite with visible luminescence. Inorganic Chemistry Communication, 2020, 120, 108125.	3.9	7
58	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
59	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
60	Ultra-thin GaN nanostructures based self-powered ultraviolet photodetector via non-homogeneous Au-GaN interfaces. Optical Materials, 2020, 102, 109820.	3.6	36
61	Au-Nanoplasmonics-Mediated Surface Plasmon-Enhanced GaN Nanostructured UV Photodetectors. ACS Omega, 2020, 5, 14535-14542.	3.5	43
62	Room temperature synthesis of perovskite (MAPbI ₃) single crystal by anti-solvent assisted inverse temperature crystallization method. Journal of Crystal Growth, 2020, 537, 125598.	1.5	18
63	Flexible perylene diimide/GaN organic-inorganic hybrid system with exciting optical and interfacial properties. Scientific Reports, 2020, 10, 10480.	3.3	8
64	Significantly high electromagnetic shielding effectiveness in polypyrrole synthesized by eco-friendly and cost-effective technique. Journal of Applied Polymer Science, 2020, 137, 49566.	2.6	12
65	Synthesis, characterization and photoluminescence of Dy ³⁺ -doped MgZnO nanophosphors. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	2
66	Current Transport and Band Alignment Study of MoS ₂ /GaN and MoS ₂ /AlGaN Heterointerfaces for Broadband Photodetection Application. ACS Applied Electronic Materials, 2020, 2, 710-718.	4.3	43
67	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
68	Improved optical properties of ion beam irradiated (K,Na)NbO ₃ thin films. Journal of Alloys and Compounds, 2020, 823, 153794.	5.5	20
69	Excitation energy dependent switchable emission in SrZnO ₂ nanophosphors: XAS and luminescence studies. Journal of Materials Chemistry C, 2020, 8, 3147-3155.	5.5	17
70	SnO ₂ /Au multilayer heterostructure for efficient CO sensing. Materials Chemistry and Physics, 2020, 244, 122741.	4.0	17
71	Magnetron configurations dependent surface properties of SnO ₂ thin films deposited by sputtering process. Vacuum, 2020, 177, 109353.	3.5	19
72	Performance analysis of anomalous photocatalytic activity of Cr-doped TiO ₂ nanoparticles [Cr(x)TiO ₂ (1-x)]. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	19

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73	Mechanistic insights into defect generation and tuning of optical properties in Zn _{1-x} Fe _x Al ₂ O ₄ (0.01 ≤ x ≤ 0.40) nanocrystals. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 757-768.	1.1	6
74	Growth Dynamics of Epitaxial Gallium Nitride Films Grown on c-Sapphire Substrates. <i>Materials Horizons</i> , 2020, , 75-101.	0.6	0
75	Boosting Sensing Performance of Vacancy-Containing Vertically Aligned MoS ₂ Using rGO Particles. <i>IEEE Sensors Journal</i> , 2019, 19, 10214-10220.	4.7	18
76	Dual-functional cathode buffer layer for power conversion efficiency enhancement of bulk-heterojunction solar cells. <i>Synthetic Metals</i> , 2019, 255, 116112.	3.9	5
77	Probing reversible photoluminescence alteration in CH ₃ NH ₃ PbBr ₃ colloidal quantum dots for luminescence-based gas sensing application. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 668-673.	9.4	10
78	Studies of Ultrafast Transient Absorption Spectroscopy of Gold Nanorods in an Aqueous Solution. <i>ACS Omega</i> , 2019, 4, 12626-12631.	3.5	12
79	Impact on photon-assisted charge carrier transport by engineering electrodes of GaN based UV photodetectors. <i>Journal of Alloys and Compounds</i> , 2019, 785, 883-890.	5.5	18
80	Influence of surface nitridation and an AlN buffer layer on the growth of GaN nanostructures on a flexible Ti metal foil using laser molecular beam epitaxy. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SC1032.	1.5	4
81	Enhanced near-infrared luminescence in zinc aluminate bestowed by fuel-blended combustion approach. <i>Journal of Alloys and Compounds</i> , 2019, 797, 148-158.	5.5	24
82	Layered vanadium oxide nanofibers as impressive electrocatalyst for hydrogen evolution reaction in acidic medium. <i>Electrochimica Acta</i> , 2019, 312, 89-99.	5.2	34
83	A high-performance hydrogen sensor based on a reverse-biased MoS ₂ /GaN heterojunction. <i>Nanotechnology</i> , 2019, 30, 314001.	2.6	42
84	Defect induced broadband visible to near-infrared luminescence in ZnAl ₂ O ₄ nanocrystals. <i>Applied Surface Science</i> , 2019, 480, 945-950.	6.1	36
85	Inorganic-organic nanohybrid of MoS ₂ -PANI for advanced photocatalytic application. <i>International Nano Letters</i> , 2019, 9, 127-139.	5.0	63
86	Nanostructured GaN and AlGaN/GaN heterostructure for catalyst-free low-temperature CO sensing. <i>Applied Surface Science</i> , 2019, 481, 379-384.	6.1	17
87	Influence of wet chemical etching on electronic structure and optical response of polar (0001) GaN films. <i>Materials Chemistry and Physics</i> , 2019, 230, 326-330.	4.0	4
88	Correlation of donor-acceptor pair emission on the performance of GaN-based UV photodetector. <i>Materials Science in Semiconductor Processing</i> , 2019, 98, 59-64.	4.0	24
89	Microstructural evolution of high quality AlN grown by PAMBE under different growth conditions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 243, 71-77.	3.5	8
90	ZnO/GaN heterojunction based self-powered photodetectors: Influence of interfacial states on UV sensing. <i>Applied Surface Science</i> , 2019, 478, 1081-1089.	6.1	78

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91	Role of growth temperature on formation of single crystalline GaN nanorods on flexible titanium foil by laser molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2019, 509, 23-28.	1.5	16
92	Electronic Structure and Room Temperature Ferromagnetism in Gd-doped Cerium Oxide Nanoparticles for Hydrogen Generation via Photocatalytic Water Splitting. <i>Global Challenges</i> , 2019, 3, 1800090.	3.6	62
93	Enhanced hard magnetic properties in partially-doped $Mn_{3-x}Gd_xGa$ ($x \approx 0.03$). <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 473, 278-283.	2.3	4
94	A solid carbon source based high performance mono/bi layer graphene/SiNWs heterojunction NIR photodetector. , 2019, , .		1
95	Growth of MoS_2 – MoO_3 Hybrid Microflowers via Controlled Vapor Transport Process for Efficient Gas Sensing at Room Temperature. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800071.	3.7	93
96	Environment-Friendly Mesoporous Magnetite Nanoparticles-Based Hydroelectric Cell. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5908-5916.	3.1	45
97	Rare earth metal oxide (RE_2O_3 ; RE = Nd, Gd, and Yb) incorporated polyindole composites: gravimetric and volumetric capacitive performance for supercapacitor applications. <i>New Journal of Chemistry</i> , 2018, 42, 5295-5308.	2.8	64
98	Surface-Engineered Nanostructure-Based Efficient Nonpolar GaN Ultraviolet Photodetectors. <i>ACS Omega</i> , 2018, 3, 2304-2311.	3.5	37
99	Structural, optical and magnetic properties of Fe-doped CeO_2 samples probed using X-ray photoelectron spectroscopy. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 10141-10153.	2.2	55
100	Epitaxial growth of GaN nanostructure by PA-MBE for UV detection application. <i>Applied Surface Science</i> , 2018, 449, 186-192.	6.1	20
101	Dependence of Al incorporation on growth temperature during laser molecular beam epitaxy of $Al_xGa_{1-x}N$ epitaxial layers on sapphire (0001). <i>Journal of Alloys and Compounds</i> , 2018, 739, 122-128.	5.5	11
102	Fabrication of sensitive bioelectrode based on atomically thin CVD grown graphene for cancer biomarker detection. <i>Biosensors and Bioelectronics</i> , 2018, 105, 173-181.	10.1	69
103	X-ray Photoelectron Spectroscopy, Magnetotransport and Magnetisation Study of Nb_2PdS_5 Superconductor. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 943-949.	1.8	12
104	GaN-UV photodetector integrated with asymmetric metal semiconductor metal structure for enhanced responsivity. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 8958-8963.	2.2	49
105	Bio-functionalization of grade V titanium alloy with type I human collagen for enhancing and promoting human periodontal fibroblast cell adhesion – an in-vitro study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 161, 1-9.	5.0	29
106	A strategy to design lanthanide doped dual-mode phosphor mediated spectral convertor for solar cell applications. <i>Journal of Luminescence</i> , 2018, 196, 207-213.	3.1	27
107	Structural, vibrational and electronic properties of CuO nanoparticles synthesized via exploding wire technique. <i>Ceramics International</i> , 2018, 44, 2478-2484.	4.8	30
108	Conducting polymer/bio-material composite coatings for corrosion protection. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 402-417.	1.5	11

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109	Elucidating iron doping induced n- to p- characteristics of Strontium titanate based ethanol sensors. Current Applied Physics, 2018, 18, 246-253.	2.4	11
110	Reduction of Rocksalt Phase in Ag -Doped GeMn_2Sb : A Potential Material for Reversible Near-Infrared Window. Physical Review Applied, 2018, 10, .	3.8	24
111	Star-Shaped CuS Flat Nanoflakes Reinforced Ni(OH) ₂ Nanosheets for Enhanced Capacitance. ChemistrySelect, 2018, 3, 11293-11301.	1.5	3
112	Highly selective and reversible NO ₂ gas sensor using vertically aligned MoS ₂ flake networks. Nanotechnology, 2018, 29, 464001.	2.6	79
113	Influence of growth temperature on structural and optical properties of laser MBE grown epitaxial thin GaN films on a-plane sapphire. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2018, 36, 04G102.	1.2	6
114	Edge enriched cobalt ferrite nanorods for symmetric/asymmetric supercapacitive charge storage. Electrochimica Acta, 2018, 283, 708-717.	5.2	31
115	Effect of Metal Contacts on a GaN/Sapphire-Based MSM Ultraviolet Photodetector. Journal of Electronic Materials, 2018, 47, 6086-6090.	2.2	26
116	Deciphering the Role of Oxygen Vacancies on Structural, Electrical, and Magnetic Properties of Fe-Substituted Strontium Titanate. Physica Status Solidi (B): Basic Research, 2018, 255, 1700683.	1.5	3
117	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
118	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
119	Determination of band alignment at two-dimensional MoS ₂ /Si van der Waals heterojunction. Journal of Applied Physics, 2018, 123, .	2.5	19
120	Electronic structure and chemical state analysis of nanoflowers decorated GaN and AlGaIn/GaN heterostructure. Journal of Alloys and Compounds, 2017, 708, 385-391.	5.5	9
121	Fabrication of non-polar GaN based highly responsive and fast UV photodetector. Applied Physics Letters, 2017, 110, .	3.3	185
122	Influence of metallic surface states on electron affinity of epitaxial AlN films. Applied Surface Science, 2017, 407, 255-259.	6.1	19
123	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
124	A Highly Responsive Self-Driven UV Photodetector Using GaN Nanoflowers. Advanced Electronic Materials, 2017, 3, 1700036.	5.1	92
125	Optical band gap tuning of Ag doped Ge ₂ Sb ₂ Te ₅ thin films. Journal of Materials Science: Materials in Electronics, 2017, 28, 11300-11305.	2.2	31
126	Light Induced Electron-Phonon Scattering Mediated Resistive Switching in Nanostructured Nb Thin Film Superconductor. Scientific Reports, 2017, 7, 881.	3.3	12

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127	Electrical, Thermal and Spectroscopic Characterization of Bulk Bi ₂ Se ₃ Topological Insulator. Journal of Superconductivity and Novel Magnetism, 2017, 30, 2031-2036.	1.8	18
128	Photo-induced characteristic study of the smallest fullerene fragment, 1,6,7,10-tetramethylfluoranthene as an acceptor. New Journal of Chemistry, 2017, 41, 5836-5845.	2.8	8
129	Tethering of 3-aminopropyltriethoxy silane films on medical grade V titanium alloy surface through self-assembled monolayers (SAMs) for biomedical applications. Applied Surface Science, 2017, 412, 648-656.	6.1	9
130	Functionalized Molybdenum Disulfide Nanosheets for ODâ€“2D Hybrid Nanostructures: Photoinduced Charge Transfer and Enhanced Photoresponse. Journal of Physical Chemistry Letters, 2017, 8, 1729-1738.	4.6	67
131	Oxygen vacancy induced electrical conduction and room temperature ferromagnetism in system BaSn _{1-x} Ni _x O ₃ (0 ≤ x ≤ 1/2). Chinese Physics Letters, 2017, 4, 116304.		
132	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
133	In-Situ Integration of Waste Coconut Shell Derived Activated Carbon/Polypyrrole/Rare Earth Metal Oxide (Eu ₂ O ₃): A Novel Step Towards Ultrahigh Volumetric Capacitance. Electrochimica Acta, 2017, 251, 532-545.	5.2	50
134	Graphene Oxide-Coated Surface: Inhibition of Bacterial Biofilm Formation due to Specific Surfaceâ€“Interface Interactions. ACS Omega, 2017, 2, 3070-3082.	3.5	84
135	Enhanced current transport in GaN/AlN based single and double barrier heterostructures. Solar Energy Materials and Solar Cells, 2017, 170, 160-166.	6.2	6
136	Turning Hazardous Diesel Soot into High Performance Carbon/MnO ₂ Supercapacitive Energy Storage Material. ACS Sustainable Chemistry and Engineering, 2017, 5, 450-459.	6.7	43
137	High transmittance contrast in amorphous to hexagonal phase of Ge ₂ Sb ₂ Te ₅ : Reversible NIR-window. Applied Physics Letters, 2017, 111, .	3.3	27
138	Superconductivity at 5.5 K in Nb ₂ PdSe ₅ Compound. Journal of Superconductivity and Novel Magnetism, 2016, 29, 2705-2710.	1.8	7
139	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
140	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
141	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
142	Field emission properties of highly ordered low-aspect ratio carbon nanocup arrays. RSC Advances, 2016, 6, 9932-9939.	3.6	10
143	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
144	Effect of lanthanum (La ³⁺) doping on the structural and electrical properties of double perovskite Sr ₂ NiMo ₆ . RSC Advances, 2016, 6, 22094-22102.	3.6	19

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145	Epitaxial growth of high In-content In _{0.41} Ga _{0.59} N/GaN heterostructure on (11̄20) Al ₂ O ₃ substrate. Journal of Alloys and Compounds, 2016, 658, 470-475.	5.5	19
146	Growth kinetics of indium metal atoms on Si(1 1 2) surface. Materials Research Bulletin, 2015, 72, 286-290.	5.2	1
147	High yield synthesis of electrolyte heating assisted electrochemically exfoliated graphene for electromagnetic interference shielding applications. RSC Advances, 2015, 5, 19074-19081.	3.6	47
148	Luminomagnetic bifunctionality of Mn ²⁺ -bonded graphene oxide/reduced graphene oxide two dimensional nanosheets. Nanoscale, 2015, 7, 12498-12509.	5.6	7
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