

# Kalyan Chattopadhyay

## List of Publications by Year in descending order

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260  
papers

5,844  
citations

81900

39  
h-index

114465

63  
g-index

261  
all docs

261  
docs citations

261  
times ranked

7419  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three Dimensional Ag <sub>2</sub> O/TiO <sub>2</sub> Type-II (p-n) Nanoheterojunctions for Superior Photocatalytic Activity. ACS Applied Materials & Interfaces, 2013, 5, 331-337.	8.0	363
2	Amino-functionalized graphene quantum dots: origin of tunable heterogeneous photoluminescence. Nanoscale, 2014, 6, 3384.	5.6	237
3	Effect of oxygen partial pressure on the electrical and optical properties of highly (200) oriented p-type Ni <sub>1-x</sub> O films by DC sputtering. Journal of Materials Science, 2007, 42, 5766-5772.	3.7	133
4	Enhanced p-type conductivity and band gap narrowing in heavily Al doped NiO thin films deposited by RF magnetron sputtering. Journal of Physics Condensed Matter, 2009, 21, 115804.	1.8	128
5	CsPbBrCl <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> type II heterojunction as efficient visible range photocatalyst. Journal of Hazardous Materials, 2019, 380, 120855.	12.4	124
6	Low temperature solution processed ZnO/CuO heterojunction photocatalyst for visible light induced photo-degradation of organic pollutants. CrystEngComm, 2015, 17, 1464-1476.	2.6	123
7	Effect of Al doping on the conductivity type inversion and electro-optical properties of SnO <sub>2</sub> thin films synthesized by sol-gel technique. Journal of Sol-Gel Science and Technology, 2006, 39, 241-247.	2.4	118
8	Size-dependent optical properties of sputter-deposited nanocrystalline p-type transparent CuAlO <sub>2</sub> thin films. Journal of Applied Physics, 2005, 97, 084308.	2.5	117
9	Charge compensation assisted enhanced photoluminescence derived from Li-codoped MgAl <sub>2</sub> O <sub>4</sub> :Eu <sup>3+</sup> nanophosphors for solid state lighting applications. Dalton Transactions, 2013, 42, 12965.	3.3	110
10	Synthesis and optical characterization of ZnS and ZnS:Mn nanocrystalline thin films by chemical route. Nanotechnology, 2004, 15, 812-816.	2.6	96
11	Recent advances in low temperature, solution processed morphology tailored ZnO nanoarchitectures for electron emission and photocatalysis applications. CrystEngComm, 2015, 17, 9264-9295.	2.6	93
12	Controlling Nonradiative Transition Centers in Eu <sup>3+</sup> Activated CaSnO <sub>3</sub> Nanophosphors through Na <sup>+</sup> Co-Doping: Realization of Ultrabright Red Emission along with Higher Thermal Stability. Journal of Physical Chemistry C, 2015, 119, 16824-16835.	3.1	91
13	Human motion interactive mechanical energy harvester based on all inorganic perovskite-PVDF. Nano Energy, 2020, 74, 104870.	16.0	85
14	Electro-active phase formation in PVDF/BiVO <sub>4</sub> flexible nanocomposite films for high energy density storage application. RSC Advances, 2014, 4, 48220-48227.	3.6	82
15	Cu <sub>2</sub> O/g-C <sub>3</sub> N <sub>4</sub> nanocomposites: an insight into the band structure tuning and catalytic efficiencies. Nanoscale, 2016, 8, 19099-19109.	5.6	77
16	Co <sub>3</sub> O <sub>4</sub> Nanowires on Flexible Carbon Fabric as a Binder-Free Electrode for All Solid-State Symmetric Supercapacitor. ACS Omega, 2017, 2, 4216-4226.	3.5	76
17	Graphene wrapped Copper Phthalocyanine nanotube: Enhanced photocatalytic activity for industrial waste water treatment. Applied Surface Science, 2017, 418, 156-162.	6.1	71
18	Tunable cathodoluminescence over the entire visible window from all-inorganic perovskite CsPbX <sub>3</sub> 1D architecture. Journal of Materials Chemistry C, 2018, 6, 3322-3333.	5.5	70

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19	Novel Quaternary Chalcogenide/Reduced Graphene Oxide-Based Asymmetric Supercapacitor with High Energy Density. ACS Applied Materials & Interfaces, 2017, 9, 22652-22664.	8.0	69
20	Morphology control of rutile TiO <sub>2</sub> hierarchical architectures and their excellent field emission properties. CrystEngComm, 2012, 14, 2683.	2.6	66
21	Topological Insulator Bi <sub>2</sub> Se <sub>3</sub> /Si-Nanowire-Based p-n Junction Diode for High-Performance Near-Infrared Photodetector. ACS Applied Materials & Interfaces, 2017, 9, 22788-22798.	8.0	66
22	Enhanced Adsorption of Hexavalent Chromium onto Magnetic Calcium Ferrite Nanoparticles: Kinetic, Isotherm, and Neural Network Modeling. Journal of Dispersion Science and Technology, 2016, 37, 1806-1818.	2.4	59
23	Implications of boron doping on electrocatalytic activities of graphyne and graphdiyne families: a first principles study. Physical Chemistry Chemical Physics, 2016, 18, 2949-2958.	2.8	59
24	3D network of V <sub>2</sub> O <sub>5</sub> for flexible symmetric supercapacitor. Electrochimica Acta, 2020, 337, 135701.	5.2	59
25	White light emitting MgAl <sub>2</sub> O <sub>4</sub> :Dy <sup>3+</sup> ,Eu <sup>3+</sup> nanophosphor for multifunctional applications. Dalton Transactions, 2018, 47, 12228-12242.	3.3	58
26	Effect of Fluorine Doping on Semiconductor to Metal-Like Transition and Optical Properties of Cadmium Oxide Thin Films Deposited by Sol-Gel Process. Journal of Sol-Gel Science and Technology, 2005, 34, 173-179.	2.4	52
27	Amorphous graphene in Transformer oil nanofluids with superior thermal and insulating properties. Carbon, 2018, 139, 1010-1019.	10.3	52
28	Self-sacrificial template directed hydrothermal route to kesterite-Cu <sub>2</sub> ZnSnS <sub>4</sub> microspheres and study of their photo response properties. CrystEngComm, 2014, 16, 2634.	2.6	50
29	Simple Chemical Route Synthesis of Fe <sub>2</sub> O <sub>3</sub> Nanoparticles and its Application for Adsorptive Removal of Congo Red from Aqueous Media: Artificial Neural Network Modeling. Journal of Dispersion Science and Technology, 2016, 37, 775-785.	2.4	47
30	Neutralizing the Charge Imbalance Problem in Eu <sup>3+</sup> -Activated BaAl <sub>2</sub> O <sub>4</sub> Nanophosphors: Theoretical Insights and Experimental Validation Considering K <sup>+</sup> Codoping. ACS Omega, 2018, 3, 788-800.	3.5	47
31	Ultra-thin graphene edges at the nanowire tips: a cascade cold cathode with two-stage field amplification. Nanotechnology, 2011, 22, 505703.	2.6	45
32	Poole-Frenkel effect in nanocrystalline SnO <sub>2</sub> :F thin films prepared by a sol-gel dip-coating technique. Physica Status Solidi A, 2004, 201, 983-989.	1.7	44
33	Effect of Co doping on the static dielectric constant of ZnO nanoparticles. Journal of Applied Physics, 2007, 101, 124911.	2.5	44
34	Structural, optical and photoelectron spectroscopic studies of nano/micro ZnO: Cd rods synthesized via sol-gel route. Journal of Sol-Gel Science and Technology, 2007, 41, 87-92.	2.4	44
35	Preparation of nanocrystalline CuAlO <sub>2</sub> through sol-gel route. Journal of Sol-Gel Science and Technology, 2009, 52, 75-81.	2.4	44
36	ZnS nanobelts grown in a polymer matrix by chemical bath deposition. Nanotechnology, 2005, 16, 107-112.	2.6	41

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37	Rules of Boron–Nitrogen Doping in Defect Graphene Sheets: A First-Principles Investigation of Band-Gap Tuning and Oxygen Reduction Reaction Catalysis Capabilities. <i>ChemPhysChem</i> , 2014, 15, 2542-2549.	2.1	41
38	Sol–Gel-Derived ZnO:Mn Nanocrystals: Study of Structural, Raman, and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16700-16708.	3.1	40
39	Novel synthesis of Ni <sub>x</sub> Zn <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> (0 ≤ x ≤ 1) nanoparticles and their dielectric properties. <i>Journal of Nanoparticle Research</i> , 2011, 13, 739-750.	1.9	39
40	Band gap enhancement of glancing angle deposited TiO <sub>2</sub> nanowire array. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	39
41	Branch Density-Controlled Synthesis of Hierarchical TiO <sub>2</sub> Nanobelt and Tunable Three-Step Electron Transfer for Enhanced Photocatalytic Property. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 10044-10059.	8.0	39
42	Ag decorated topological surface state protected hierarchical Bi <sub>2</sub> Se <sub>3</sub> nanoflakes for enhanced field emission properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1766-1775.	5.5	39
43	Methyl orange adsorption onto simple chemical route synthesized crystalline Fe <sub>2</sub> O <sub>3</sub> nanoparticles: kinetic, equilibrium isotherm, and neural network modeling. <i>Desalination and Water Treatment</i> , 2016, 57, 13549-13560.	1.0	39
44	One pot solvothermal synthesis of ZnPc nanotube and its composite with RGO: A high performance ORR catalyst in alkaline medium. <i>Applied Surface Science</i> , 2018, 449, 144-151.	6.1	39
45	Multilevel Programming and Light-Assisted Resistive Switching in a Halide-Tunable All-Inorganic Perovskite Cube for Flexible Memory Devices. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3667-3677.	4.3	38
46	Synthesis and Optical Characterization of CdS Nanowires by Chemical Process. <i>Journal of Nanoparticle Research</i> , 2006, 8, 125-130.	1.9	35
47	Room temperature deposition of ultra sharp ZnO nanospoke arrays on metallic, non-metallic and flexible carbon fabrics: Efficient field emitters. <i>CrystEngComm</i> , 2011, 13, 1976-1983.	2.6	35
48	Hierarchical graphene nanocones over 3D platform of carbon fabrics: A route towards fully foldable graphene based electron source. <i>Nanoscale</i> , 2011, 3, 4135.	5.6	35
49	Surface modification of amorphous carbon nanotubes with copper phthalocyanine leading to enhanced field emission. <i>RSC Advances</i> , 2013, 3, 1227-1234.	3.6	35
50	Highly oriented cupric oxide nanoknife arrays on flexible carbon fabric as high performing cold cathode emitter. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1321.	5.5	33
51	Ultrasound assisted catalytic degradation of textile dye under the presence of reduced Graphene Oxide enveloped Copper Phthalocyanine nanotube. <i>Applied Surface Science</i> , 2018, 449, 113-121.	6.1	32
52	Field emission enhancement of polypyrrole due to band bending induced tunnelling in polypyrrole-carbon nanotubes nanocomposite. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 3208-3213.	5.8	30
53	Morphology control and photoluminescence properties of Eu <sup>3+</sup> -activated Y <sub>4</sub> Al <sub>2</sub> O <sub>9</sub> nanophosphors for solid state lighting applications. <i>CrystEngComm</i> , 2018, 20, 2540-2552.	2.6	29
54	Temperature dependent structural and optical properties of nanocrystalline CdO thin films deposited by sol–gel process. <i>Journal of Nanoparticle Research</i> , 2005, 7, 219-225.	1.9	28

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55	Flexible cold cathode with ultralow threshold field designed through wet chemical route. <i>Nanotechnology</i> , 2010, 21, 505701.	2.6	27
56	An ambient condition, one pot route for large scale production of ultrafine (< 15 nm) ZnO nanowires from commercial zinc exhibiting excellent recyclable catalytic performance: Approach extendable to CuO nanostructures. <i>CrystEngComm</i> , 2012, 14, 640-647.	2.6	27
57	Dielectric and piezoelectric augmentation in self-poled magnetic Fe <sub>3</sub> O <sub>4</sub> /poly(vinylidene fluoride) composite nanogenerators. <i>Materials Research Express</i> , 2020, 7, 044001.	1.6	27
58	Facile additive-free synthesis of hematite nanoparticles for enhanced adsorption of hexavalent chromium from aqueous media: Kinetic, isotherm, and thermodynamic study. <i>Inorganic and Nano-Metal Chemistry</i> , 2017, 47, 1605-1613.	1.6	26
59	Endorsement of Manganese Phthalocyanine microstructures as electrocatalyst in ORR: Experimental and computational study. <i>Electrochimica Acta</i> , 2019, 296, 528-534.	5.2	26
60	Size-modulation of functionalized Fe <sub>3</sub> O <sub>4</sub> : nanoscopic customization to devise resolute piezoelectric nanocomposites. <i>Dalton Transactions</i> , 2020, 49, 7872-7890.	3.3	26
61	Ambient processed CsPbX <sub>3</sub> perovskite cubes for photocatalysis. <i>Materials Letters</i> , 2020, 267, 127501.	2.6	26
62	Efficient and persistent cold cathode emission from CuPc nanotubes: a joint experimental and simulation investigation. <i>Dalton Transactions</i> , 2014, 43, 9260-9266.	3.3	25
63	Realizing Direct Gap, Polytype, Group IIIA Delafossite: Ab Initio Forecast and Experimental Validation Considering Prototype CuAlO <sub>2</sub> . <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3539-3543.	4.6	24
64	Nanostructured CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> for environmental remediation through visible light active catalysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 10393-10398.	2.2	24
65	Tailored CsPbX <sub>3</sub> Nanorods for Electron-Emission Nanodevices. <i>ACS Applied Nano Materials</i> , 2019, 2, 5942-5951.	5.0	24
66	sp <sup>3</sup> bonded 2-dimensional allotrope of carbon: A first-principles prediction. <i>Carbon</i> , 2019, 146, 430-437.	10.3	24
67	MoSe <sub>2</sub> -Amorphous CNT Hierarchical Hybrid Core-Shell Structure for Efficient Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020, 3, 5067-5076.	5.1	24
68	Hierarchical Assembly of MnO <sub>2</sub> Nanosheet on CuCo <sub>2</sub> O <sub>4</sub> Nanoflake over Fabric Scaffold for Symmetric Supercapacitor. <i>ACS Applied Nano Materials</i> , 2021, 4, 1420-1433.	5.0	24
69	Bane to boon: tailored defect induced bright red luminescence from cuprous iodide nanophosphors for on-demand rare-earth-free energy-saving lighting applications. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6786-6795.	5.5	23
70	Three-dimensional VO <sub>2</sub> @PANI micro flower array for flexible supercapacitor. <i>Materials Letters</i> , 2019, 253, 90-94.	2.6	23
71	Amalgamation of MnWO <sub>4</sub> nanorods with amorphous carbon nanotubes for highly stabilized energy efficient supercapacitor electrodes. <i>Dalton Transactions</i> , 2021, 50, 5327-5341.	3.3	23
72	Interplay of bulk and surface on the magnetic properties of low temperature synthesized nanocrystalline cubic Cu <sub>1-x</sub> Zn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> (x=0.00, 0.02, 0.04 and 0.08). <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 367, 19-32.	2.3	22

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73	Amorphous Carbon Nanotubesâ€“Nickel Oxide Nanoflower Hybrids: A Low Cost Energy Storage Material. ACS Omega, 2018, 3, 6311-6320.	3.5	22
74	Ambient condition oxidation of zinc foil in supersaturated solution for shape tailored ZnO nanostructures: low cost candidates for efficient electron emitter and UV-detector. CrystEngComm, 2014, 16, 1659.	2.6	21
75	Tailored CuO nanostructures decorated amorphous carbon nanotubes hybrid for efficient field emitter with theoretical validation. Carbon, 2018, 127, 510-518.	10.3	21
76	Investigation of electrochemical performances of ceramic oxide CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> nanostructures. Journal of Solid State Chemistry, 2019, 269, 600-607.	2.9	21
77	Three dimensional ZnO nanostructures realized through a polymer mediated aqueous chemical route: candidate for transparent flexible electronics. CrystEngComm, 2012, 14, 8244.	2.6	20
78	Edge effect enhanced electron field emission in top assembled reduced graphene oxide assisted by amorphous CNT-coated carbon cloth substrate. AIP Advances, 2013, 3, .	1.3	20
79	1Dâ€“2D hybrids as efficient optoelectronic materials: a study on graphitic carbon nitride nanosheets wrapped with zinc oxide rods. Dalton Transactions, 2018, 47, 4501-4507.	3.3	20
80	Flower-like Cu <sub>2</sub> NiSnS <sub>4</sub> microspheres for application as electrodes of asymmetric supercapacitors endowed with high energy density. CrystEngComm, 2018, 20, 1443-1454.	2.6	20
81	Enhanced photocurrent from generated photothermal heat in indium nanoparticles embedded TiO <sub>2</sub> film. Applied Physics Letters, 2013, 102, .	3.3	19
82	A scheme of simultaneous cationicâ€“anionic substitution in CuCrO <sub>2</sub> for transparent and superior p-type transport. Journal Physics D: Applied Physics, 2016, 49, 275109.	2.8	19
83	Solution processed Copper Phthalocyanine nanowires: A promising supercapacitor anode material. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 114, 113654.	2.7	19
84	Cube shaped FAPbBr <sub>3</sub> for piezoelectric energy harvesting devices. Materials Letters, 2021, 301, 130264.	2.6	19
85	Optical and electrical properties of p-type transparent conducting CuAlO <sub>2</sub> thin film synthesized by reactive radio frequency magnetron sputtering technique. Indian Journal of Physics, 2010, 84, 1341-1346.	1.8	18
86	Synthesis of CuBO <sub>2</sub> Nano/Microrods via Easy Molten Salt Route and Study of Its Field Emission Properties. Crystal Growth and Design, 2015, 15, 1518-1525.	3.0	18
87	Negative capacitance switching in size-modulated Fe <sub>3</sub> O <sub>4</sub> nanoparticles with spontaneous non-stoichiometry: confronting its generalized origin in non-ferroelectric materials. Nanoscale, 2020, 12, 1528-1540.	5.6	18
88	Electrochemical Performance of 3D Network CsPbBr <sub>3</sub> Perovskite Anodes for Li-Ion Batteries: Experimental Venture with Theoretical Expedition. Journal of Physical Chemistry C, 2021, 125, 16892-16902.	3.1	18
89	Electro-optical properties of all-oxide p-CuAlO <sub>2</sub> /n-ZnO: Al transparent heterojunction thin film diode fabricated on glass substrate. Open Physics, 2008, 6, 57-63.	1.7	17
90	Controlling the sharpness of ZnO tetrapods by restricted zinc oxidation in the open air: a low turn-on field emitter stabilized by graphene. Journal of Materials Chemistry C, 2013, 1, 4940.	5.5	17

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91	Synthesis, characterization and high natural sunlight photocatalytic performance of cobalt doped TiO <sub>2</sub> nanofibers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 50, 37-43.	2.7	17
92	rGO-Wrapped flowerlike Bi <sub>2</sub> Se <sub>3</sub> nanocomposite: synthesis, experimental and simulation-based investigation on cold cathode applications. <i>RSC Advances</i> , 2016, 6, 25900-25912.	3.6	17
93	Amorphous carbon nanotubes as potent sorbents for removal of a phenolic derivative compound and arsenic: theoretical support of experimental findings. <i>RSC Advances</i> , 2016, 6, 8913-8922.	3.6	17
94	Boron vacancy: a strategy to boost the oxygen reduction reaction of hexagonal boron nitride nanosheet in hBN@MoS <sub>2</sub> heterostructure. <i>Nanoscale Advances</i> , 2021, 3, 4739-4749.	4.6	17
95	Field-enhanced polarization in polytype ferric oxides: confronting anisotropy in dielectric ellipsoid dispersion. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 295301.	2.8	17
96	All-inorganic halide perovskite tuned robust mechanical-energy harvester: Self driven posture monitor and power source for portable electronics. <i>Applied Materials Today</i> , 2022, 26, 101385.	4.3	17
97	Wet-chemical dip-coating preparation of highly oriented copper-aluminum oxide thin film and its opto-electrical characterization. <i>Physica B: Condensed Matter</i> , 2011, 406, 220-224.	2.7	16
98	Synthesis and characterization of water soluble functionalized amorphous carbon nanotube-poly(vinyl alcohol) composite. <i>Macromolecular Research</i> , 2012, 20, 1021-1028.	2.4	16
99	Electronic structure and optical properties of CuAlO <sub>2</sub> under biaxial strain. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 235501.	1.8	16
100	CuBO <sub>2</sub> : a new highly transparent <i>p</i> -type wide band gap electron field emitter. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 505301.	2.8	16
101	Band edge tuned Zn <sub>x</sub> Cd <sub>1-x</sub> S solid solution nanopowders for efficient solar photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29998-30009.	2.8	16
102	Flexible, transparent resistive switching device based on topological insulator Bi <sub>2</sub> Se <sub>3</sub> -organic composite. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	16
103	GLAD synthesised erbium doped In <sub>2</sub> O <sub>3</sub> nano-columns for UV detection. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 12739-12752.	2.2	16
104	Site specific nitrogen incorporation in reduced graphene oxide using imidazole as a novel reducing agent for efficient oxygen reduction reaction and improved supercapacitive performance. <i>Carbon</i> , 2020, 166, 361-373.	10.3	16
105	Excellent Photocatalytic Activity of Mixed Phase Ultra Slim TiO <sub>2</sub> Nanofibers for the Degradation of Organic Wastes. <i>Advanced Science Letters</i> , 2012, 6, 127-133.	0.2	16
106	All-inorganic CsPbBr <sub>3</sub> perovskite as potential electrode material for symmetric supercapacitor. <i>Solid State Sciences</i> , 2021, 122, 106769.	3.2	16
107	Solution-processed light-induced multilevel non-volatile wearable memory device based on CsPb <sub>2</sub> Br <sub>5</sub> perovskite. <i>Dalton Transactions</i> , 2022, 51, 3864-3874.	3.3	16
108	Effect of annealing on SiO <sub>x</sub> -TiO <sub>2</sub> axial heterostructure nanowires and improved photodetection. <i>Journal of Applied Physics</i> , 2013, 114, 244310.	2.5	15

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109	Tailored defect-induced sharp excitonic emission from microcrystalline CuI and its ab initio validation. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6592-6600.	5.5	15
110	Observation of bright green luminescence in an Eu <sup>2+</sup> complexed graphene oxide composite through reduction of Eu <sup>3+</sup> . <i>New Journal of Chemistry</i> , 2015, 39, 4210-4213.	2.8	15
111	Role of oxygen functionality on the band structure evolution and conductance of reduced graphene oxide. <i>Chemical Physics Letters</i> , 2017, 677, 80-86.	2.6	15
112	2D square nanosheets of Anatase TiO <sub>2</sub> : A surfactant free nanofiller for transformer oil nanofluids. <i>Journal of Molecular Liquids</i> , 2021, 325, 115000.	4.9	15
113	Manipulating dielectric relaxation via anisotropic field deviations in perovskite titanate grain boundary heterostructure: a joint experimental and theoretical venture. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	2.3	15
114	Electrical properties of vertically oriented TiO <sub>2</sub> nanowire arrays synthesized by glancing angle deposition technique. <i>Electronic Materials Letters</i> , 2013, 9, 213-217.	2.2	14
115	Effect of particle size distribution on the structure, hyperfine, and magnetic properties of Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> nanopowders. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	14
116	Unique quasi-vertical alignment of RGO sheets under an applied non-uniform DC electric field for enhanced field emission. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7608-7613.	5.5	14
117	Unconventional Dexter-Silverton Type Manganese Heteropolytungstate [Mn <sub>7</sub> (MnW <sub>12</sub> O <sub>42</sub> (OH) <sub>4</sub> ·8H <sub>2</sub> O)] Hollow Microsphere: Synthesis, Crystal Structure, Growth Mechanism, and Optical Property Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1536-1547.	3.1	14
118	A carbon fiber-ZnS nanocomposite for dual application as an efficient cold cathode as well as a luminescent anode for display technology. <i>Nanoscale</i> , 2015, 7, 2536-2544.	5.6	14
119	Local Field Enhancement-Induced Enriched Cathodoluminescence Behavior from CuI-RGO Nanophosphor Composite for Field-Emission Display Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 25571-25577.	8.0	14
120	Novel Ag <sub>2</sub> O-Ga <sub>2</sub> O <sub>3</sub> type II p-n heterojunction as an efficient water cleanser for green cleaning technology. <i>Applied Surface Science</i> , 2020, 515, 145958.	6.1	14
121	Size and phase dependent thermal conductivity of TiO <sub>2</sub> -water nanofluid with theoretical insight. <i>Journal of Molecular Liquids</i> , 2020, 302, 112499.	4.9	14
122	Hollow micro-spherical bismuth oxy-chloride for superior visible light induced dye-sensitized photocatalytic activity and its theoretical insight. <i>Materials Research Bulletin</i> , 2020, 125, 110778.	5.2	14
123	Copper (II) Phthalocyanine (CuPc) Based Optoelectronic Memory Device with Multilevel Resistive Switching for Neuromorphic Application. <i>Advanced Electronic Materials</i> , 2021, 7, 2001079.	5.1	14
124	Resistive Switching in a MoSe <sub>2</sub> -Based Memory Device Investigated Using Conductance Noise Spectroscopy. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3096-3105.	4.3	14
125	Low temperature synthesis of graphitic carbon nitride nanorods for heavy metal ions sensing. <i>Solid State Sciences</i> , 2018, 82, 99-105.	3.2	14
126	Intentionally incorporated defect and its consequences in oxide thin film through Radio Frequency Magnetron Sputtering Technique. <i>Indian Journal of Physics</i> , 2010, 84, 681-685.	1.8	13



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127	Temperature-dependent ac conductivity and dielectric response of vanadium doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 1105-1111.	2.3	13
128	Facile synthesis of ZnPc nanoflakes for cold cathode emission. <i>RSC Advances</i> , 2016, 6, 42739-42744.	3.6	13
129	Raman Spectroscopic Observation of Gradual Polymorphic Transition and Phonon Modes in CuPc Nanorod. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6323-6328.	3.1	13
130	Co incorporated Ni <sub>3</sub> S <sub>2</sub> hierarchical nano/micro cactus for electrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21315-21323.	7.1	13
131	Textile-based RGO-muffled cobalt (II, III) oxide hybrid nano-architectures for flexible energy storage device. <i>Applied Surface Science</i> , 2019, 485, 238-246.	6.1	13
132	Study of field emission and dielectric properties of AlN films prepared by DC sputtering technique at different substrate temperatures. <i>Indian Journal of Physics</i> , 2010, 84, 1347-1354.	1.8	12
133	Fabrication of barium/strontium carbonate coated amorphous carbon nanotubes as an improved field emitter. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 493-499.	2.3	12
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