

Kalyan Chattopadhyay

List of Publications by Year in descending order

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260
papers

5,844
citations

81900

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all docs

261
docs citations

261
times ranked

7419
citing authors

#	ARTICLE	IF	CITATIONS
1	SrTiO ₃ : Sm ³⁺ , Na ⁺ -codoped orange-emitting nanophosphor for pc-WLEDs. Journal of Materials Science: Materials in Electronics, 2022, 33, 1-15.	2.2	7
2	Photo tuned electron field emission from vertically aligned CH ₃ NH ₃ PbI ₃ nanorods grown in AAO template. Journal of Physics and Chemistry of Solids, 2022, 161, 110457.	4.0	3
3	Copper and nickel decorated g-C ₃ N ₄ as superior catalysts for reduction of toxic pollutants: A combined experimental and theoretical approach. Applied Surface Science, 2022, 580, 152137.	6.1	10
4	Solution-processed light-induced multilevel non-volatile wearable memory device based on CsPb ₂ Br ₅ perovskite. Dalton Transactions, 2022, 51, 3864-3874.	3.3	16
5	Enhanced electrocatalytic oxygen reduction reaction from organic-inorganic heterostructure. International Journal of Hydrogen Energy, 2022, 47, 6710-6720.	7.1	7
6	Hydrothermal synthesis of GO wrapped BiOCl nanosheet and its application in visible light assisted catalytic degradation of Rhodamine B dye. Materials Chemistry and Physics, 2022, 279, 125796.	4.0	7
7	All-inorganic halide perovskite tuned robust mechanical-energy harvester: Self driven posture monitor and power source for portable electronics. Applied Materials Today, 2022, 26, 101385.	4.3	17
8	Enhanced field emission properties of rGO wrapped Ga ₂ O ₃ micro/nanobricks: Experimental investigation with theoretical validation. Journal of Alloys and Compounds, 2022, 902, 163726.	5.5	3
9	Mechanism of Oxygen Reduction Reaction in Alkaline Medium on Nitrogen-Doped Graphyne and Graphdiyne Families: A First Principles Study. ChemPhysChem, 2022, 23, e202100900.	2.1	2
10	Zinc oxide rod-coated cotton fabric: a super-hydrophobic material for self-cleaning and oil/water separation. Chemical Papers, 2022, 76, 4679-4690.	2.2	2
11	Ratiometric temperature sensing and molecular logic AND gate execution via Eu ³⁺ doped BaWO ₄ nanophosphor. Journal of Luminescence, 2022, 247, 118883.	3.1	3
12	Significant enhancement of lattice thermal conductivity of monolayer AlN under bi-axial strain: a first principles study. Physical Chemistry Chemical Physics, 2022, 24, 16065-16074.	2.8	5
13	Manipulating dielectric relaxation via anisotropic field deviations in perovskite titanate grain-grain boundary heterostructure: a joint experimental and theoretical venture. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	15
14	Probing the emission dynamics in nitrogen-doped carbon dots by reversible capping with mercury(ⁱⁱ) through surface chemistry. New Journal of Chemistry, 2022, 46, 14690-14702.	2.8	2
15	Nonlinear Coherent Light-Matter Interaction in 2D MoSe ₂ Nanoflakes for All-Optical Switching and Logic Applications. Advanced Optical Materials, 2022, 10, .	7.3	9
16	Sodium borohydride assisted reduction of toxic pollutants by silver coordinated melamine based polymeric material. Materials Today: Proceedings, 2021, 44, 444-452.	1.8	2
17	Amalgamation of MnWO ₄ nanorods with amorphous carbon nanotubes for highly stabilized energy efficient supercapacitor electrodes. Dalton Transactions, 2021, 50, 5327-5341.	3.3	23
18	Silicon Nanowires as a Potential Material for Terahertz Applications. Lecture Notes in Electrical Engineering, 2021, , 177-191.	0.4	0

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19	Boron vacancy: a strategy to boost the oxygen reduction reaction of hexagonal boron nitride nanosheet in hBNâ€“MoS ₂ heterostructure. <i>Nanoscale Advances</i> , 2021, 3, 4739-4749.	4.6	17
20	Nanoporous nitrogen-doped graphitic carbon hollow spheres with enhanced electrochemical properties. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7645-7653.	5.9	9
21	CH ₃ NH ₃ Pb ₃ as a radio frequency decoupling capacitor: interplay between Maxwellâ€“Wagner polarization and a pseudo inductive response. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 175105.	2.8	5
22	Hierarchical Assembly of MnO ₂ Nanosheet on CuCo ₂ O ₄ Nanoflake over Fabric Scaffold for Symmetric Supercapacitor. <i>ACS Applied Nano Materials</i> , 2021, 4, 1420-1433.	5.0	24
23	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
24	2D square nanosheets of Anatase TiO ₂ : A surfactant free nanofiller for transformer oil nanofluids. <i>Journal of Molecular Liquids</i> , 2021, 325, 115000.	4.9	15
25	Morphology tuning of bismuth oxychloride nano-crystals by citric acid variation: Application in visible light-assisted dye degradation and hydrogen evolution by electrochemical method. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16299-16308.	7.1	12
26	Experimental observation of valence band dispersion and increased hole conductivity in CuCr _{1-x} Li _x O ₂ . <i>Current Applied Physics</i> , 2021, 25, 90-96.	2.4	0
27	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
28	Hierarchical nickel sulphide microstructures for controlled water disinfection and cold cathode emission. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 412, 113212.	3.9	5
29	Resistive Switching in a MoSe ₂ -Based Memory Device Investigated Using Conductance Noise Spectroscopy. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3096-3105.	4.3	14
30	Calcination Temperature Dependent Dielectric Properties of Nanocrystalline BaSnO ₃ . <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 071018.	1.8	0
31	Electrochemical Performance of 3D Network CsPbBr ₃ Perovskite Anodes for Li-Ion Batteries: Experimental Venture with Theoretical Expedition. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16892-16902.	3.1	18
32	Photocatalytic and sonocatalytic dye degradation by sulfur vacancy rich ZnS nanopowder. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	1.9	8
33	Cube shaped FAPbBr ₃ for piezoelectric energy harvesting devices. <i>Materials Letters</i> , 2021, 301, 130264.	2.6	19
34	Observation of polarization dependent excitonic luminescence in few-layered WS ₂ flakes. <i>Chemical Physics Letters</i> , 2021, 781, 139012.	2.6	0
35	Generation of stable thermal gradient by solar energy harvesting in porous cobalt oxide based nanofluid. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101390.	2.7	3
36	Temperature-dependent site selection of boron doping in chemically derived graphene. <i>Carbon</i> , 2021, 184, 253-265.	10.3	5

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37	Dye Removal Ability of Pure and Doped Graphitic Carbon Nitride. <i>Current Analytical Chemistry</i> , 2021, 17, .	1.2	2
38	All-inorganic CsPbBr ₃ perovskite as potential electrode material for symmetric supercapacitor. <i>Solid State Sciences</i> , 2021, 122, 106769.	3.2	16
39	Thermoelectric Materials: Improving Energy Efficiency and Decreasing CO ₂ Emissions. , 2020, , 780-794.		0
40	Negative capacitance switching in size-modulated Fe ₃ O ₄ nanoparticles with spontaneous non-stoichiometry: confronting its generalized origin in non-ferroelectric materials. <i>Nanoscale</i> , 2020, 12, 1528-1540.	5.6	18
41	Incorporation of V ₂ O ₅ nanorods into perovskite photodetectors as an alternative approach to enhance device performance: a step towards stability against ambient water species. <i>Dalton Transactions</i> , 2020, 49, 15788-15799.	3.3	8
42	Well-dispersed amorphous carbon nanotube-alumina nanocomposite for nanofluid with improved thermal conductivity. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
43	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
44	Microwave-assisted rapid preparation of ZnS nanosphere for latent fingerprint detection and anti-counterfeiting applications. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
45	Size-modulation of functionalized Fe ₃ O ₄ : nanoscopic customization to devise resolute piezoelectric nanocomposites. <i>Dalton Transactions</i> , 2020, 49, 7872-7890.	3.3	26
46	Strain-induced partial phase transition in TiO ₂ nanoparticles manifesting frequency dispersive pseudo-inductive switching of capacitance. <i>Ceramics International</i> , 2020, 46, 20437-20447.	4.8	9
47	Human motion interactive mechanical energy harvester based on all inorganic perovskite-PVDF. <i>Nano Energy</i> , 2020, 74, 104870.	16.0	85
48	BaSnO ₃ nanoparticles as blue emitting phosphor and efficient photocatalyst. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
49	Yellow emitting Fe ₃ O ₄ /ZnS hybrid: A probe for in-vitro dermatoglyphics and anti-counterfeiting applications. <i>Materials Research Bulletin</i> , 2020, 131, 110966.	5.2	7
50	Novel Ag ₂ O-Ga ₂ O ₃ 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
51	V doped BaSnO ₃ nanocubes as a field emitting material: Experimental and theoretical investigation. <i>Applied Surface Science</i> , 2020, 530, 147102.	6.1	4
52	Polypyrrole decorated amorphous CNT: A potential ORR electrocatalyst in alkaline medium. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	2
53	Efficient photocatalytic activity of bismuth oxyhalides with preferentially oriented (210) facets under visible light. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
54	Facile preparation of porous Ga ₂ O ₃ nano/microbars for highly efficient photocatalytic degradation. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	2

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55	Ambient processed CsPbX ₃ perovskite cubes for photocatalysis. Materials Letters, 2020, 267, 127501.	2.6	26
56	Size and phase dependent thermal conductivity of TiO ₂ -water nanofluid with theoretical insight. Journal of Molecular Liquids, 2020, 302, 112499.	4.9	14
57	Hollow micro-spherical bismuth oxy-chloride for superior visible light induced dye-sensitized photocatalytic activity and its theoretical insight. Materials Research Bulletin, 2020, 125, 110778.	5.2	14
58	3D network of V ₂ O ₅ for flexible symmetric supercapacitor. Electrochimica Acta, 2020, 337, 135701.	5.2	59
59	MoSe ₂ -Amorphous CNT Hierarchical Hybrid Core-Shell Structure for Efficient Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2020, 3, 5067-5076.	5.1	24
60	Dielectric and piezoelectric augmentation in self-poled magnetic Fe ₃ O ₄ /poly(vinylidene fluoride) composite nanogenerators. Materials Research Express, 2020, 7, 044001.	1.6	27
61	Site specific nitrogen incorporation in reduced graphene oxide using imidazole as a novel reducing agent for efficient oxygen reduction reaction and improved supercapacitive performance. Carbon, 2020, 166, 361-373.	10.3	16
62	Shape-Shifting via Salt Crystallization: Conversion of a Nanostructured Polymer into a Site-Selective Nitrogen-Doped Carbon Sheet with Enhanced Supercapacitive Performance. ACS Applied Energy Materials, 2020, 3, 5984-5992.	5.1	10
63	Luminescence properties of nano and bulk ZnWO ₄ : Eu ³⁺ phosphors for solid state lighting applications. Materials Research Express, 2020, 7, 074002.	1.6	7
64	In-Situ Grown ZnS Nanoparticles on Amorphous Carbon Nanotubes Improved Cold Cathode Emission and Photoluminescence. Journal of Nanoscience and Nanotechnology, 2020, 20, 7686-7693.	0.9	1
65	Impact of morphological change on improvement of photo-catalytic behavior of Co ₃ O ₄ based system. AIP Conference Proceedings, 2020, , .	0.4	0
66	Tailored CsPbX ₃ Nanorods for Electron-Emission Nanodevices. ACS Applied Nano Materials, 2019, 2, 5942-5951.	5.0	24
67	Bias-tuned dielectric properties and Non-Debye relaxation in vanadium doped BaSnO ₃ nanocubes. Materials Research Express, 2019, 6, 105029.	1.6	11
68	Co incorporated Ni ₃ S ₂ hierarchical nano/micro cactus for electrochemical water splitting. International Journal of Hydrogen Energy, 2019, 44, 21315-21323.	7.1	13
69	Solution processed Copper Phthalocyanine nanowires: A promising supercapacitor anode material. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 114, 113654.	2.7	19
70	CsPbBrCl ₂ /g-C ₃ N ₄ type II heterojunction as efficient visible range photocatalyst. Journal of Hazardous Materials, 2019, 380, 120855.	12.4	124
71	Faceted Growth of Morphologically Tuned of BiOCl. Materials Today: Proceedings, 2019, 18, 1086-1095.	1.8	8
72	Enhanced heat transfer properties of RGO-TiO ₂ based Ethylene Glycol Nanofluids. Materials Today: Proceedings, 2019, 18, 1096-1107.	1.8	4

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73	Synthesis and characterization of highly luminescent green emitting BaAl ₂ O ₄ : Tb ³⁺ nanophosphors. <i>Materials Today: Proceedings</i> , 2019, 18, 1132-1137.	1.8	7
74	Cathodoluminescence and photoluminescence from ZnS thin films deposited by novel seeded hydrothermal route. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 19189-19198.	2.2	0
75	Blue Emitting BaAl ₂ O ₄ :Ce ³⁺ Nanophosphors with High Color Purity and Brightness for White LEDs. <i>Microscopy and Microanalysis</i> , 2019, 25, 1466-1470.	0.4	6
76	A morphology-tailored triazine-based crystalline organic polymer for efficient mercury sensing. <i>New Journal of Chemistry</i> , 2019, 43, 4364-4376.	2.8	11
77	Investigation of ORR Performances on Graphene/Phthalocyanine Nanocomposite in Neutral Medium. <i>Microscopy and Microanalysis</i> , 2019, 25, 1416-1421.	0.4	11
78	GLAD synthesised erbium doped In ₂ O ₃ nano-columns for UV detection. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 12739-12752.	2.2	16
79	Three-dimensional VO ₂ @PANI micro flower array for flexible supercapacitor. <i>Materials Letters</i> , 2019, 253, 90-94.	2.6	23
80	Enhancement of blue emission in novel ZnWO ₄ :Ce ³⁺ nanophosphors for solid state lighting applications. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
81	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
82	Enhanced Photoluminescence Properties of Low-Dimensional Eu ³⁺ -Activated Y ₄ Al ₂ O ₉ Phosphor Compared to Bulk for Solid-State Lighting Applications and Latent Fingerprint Detection-Based Forensic Applications. <i>Microscopy and Microanalysis</i> , 2019, 25, 1422-1430.	0.4	6
83	Enhancement of radiative transitions in Sm ³⁺ activated CaTiO ₃ nanophosphor by modulating co-activator concentration. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 6311-6321.	2.2	10
84	Graphene wrapped organic nanotube: A promising material for Oxygen Reduction Reaction. <i>Materials Letters</i> , 2019, 248, 8-11.	2.6	9
85	sp ³ bonded 2-dimensional allotrope of carbon: A first-principles prediction. <i>Carbon</i> , 2019, 146, 430-437.	10.3	24
86	Enhanced Cold Cathode Electron Emission from ZnO Nanostructure Attached Amorphous Carbon Nanotubes. <i>Springer Proceedings in Physics</i> , 2019, , 1195-1201.	0.2	1
87	Endorsement of Manganese Phthalocyanine microstructures as electrocatalyst in ORR: Experimental and computational study. <i>Electrochimica Acta</i> , 2019, 296, 528-534.	5.2	26
88	Investigation of electrochemical performances of ceramic oxide CaCu ₃ Ti ₄ O ₁₂ nanostructures. <i>Journal of Solid State Chemistry</i> , 2019, 269, 600-607.	2.9	21
89	Controllable white light generation from novel BaWO ₄ : Yb ³⁺ /Ho ³⁺ /Tm ³⁺ nanophosphor by modulating sensitizer ion concentration. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1068-1075.	2.2	6
90	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

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91	Fabrication of Molybdenum Trioxide Nanobelts as High Performance Supercapacitor. Materials Today: Proceedings, 2018, 5, 9776-9782.	1.8	10
92	Efficient blue emission from ambient processed all-inorganic CsPbBr ₂ Cl perovskite cubes. AIP Conference Proceedings, 2018, . .	0.4	4
93	Morphology control and photoluminescence properties of Eu ³⁺ -activated Y ₄ Al ₂ O ₉ nanophosphors for solid state lighting applications. CrystEngComm, 2018, 20, 2540-2552.	2.6	29
94	1D-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
95	Neutralizing the Charge Imbalance Problem in Eu ³⁺ -Activated BaAl ₂ O ₄ Nanophosphors: Theoretical Insights and Experimental Validation Considering K ⁺ Codoping. ACS Omega, 2018, 3, 788-800.	3.5	47
96	Flower-like Cu ₂ NiSnS ₄ microspheres for application as electrodes of asymmetric supercapacitors endowed with high energy density. CrystEngComm, 2018, 20, 1443-1454.	2.6	20
97	One pot solvothermal synthesis of ZnPc nanotube and its composite with RGO: A high performance ORR catalyst in alkaline medium. Applied Surface Science, 2018, 449, 144-151.	6.1	39
98	Low dimensional CH ₃ NH ₃ PbBr ₃ cubes for persistent luminescence: Energy variation of electron excitation. AIP Conference Proceedings, 2018, . .	0.4	2
99	Tunable cathodoluminescence over the entire visible window from all-inorganic perovskite CsPbX ₃ 1D architecture. Journal of Materials Chemistry C, 2018, 6, 3322-3333.	5.5	70
100	Enhanced photoconductance in ZnS-RGO-based nanocomposite under UV irradiation. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	2
101	Tailored CuO nanostructures decorated amorphous carbon nanotubes hybrid for efficient field emitter with theoretical validation. Carbon, 2018, 127, 510-518.	10.3	21
102	A Simulation Based Comparative Study of P3HT: PCBM and OC1C10PPV: PCBM Organic Solar Cells. , 2018, . .		0
103	Morphology Tailored Cobalt Oxide Nanoarchitectures Over Flexible Platform For Hazardous Organic Dye Degradation Under Visible Light. Materials Today: Proceedings, 2018, 5, 9749-9753.	1.8	5
104	Flexible, transparent resistive switching device based on topological insulator Bi ₂ Se ₃ -organic composite. Journal of Applied Physics, 2018, 124, .	2.5	16
105	Geometrically intricate sheet-on-pillar/flake hierarchy embracing cobaltic and manganese oxides over flexible carbon scaffold for binder-free high-energy-density supercapacitor. CrystEngComm, 2018, 20, 6183-6196.	2.6	12
106	CuBO_2 nanonetwork: a novel and significant candidate for photocatalytic dye degradation. Bulletin of Materials Science, 2018, 41, 1.	1.7	5
107	Amorphous graphene - Transformer oil nanofluids with superior thermal and insulating properties. Carbon, 2018, 139, 1010-1019.	10.3	52
108	White light emitting MgAl ₂ O ₄ :Dy ³⁺ ,Eu ³⁺ nanophosphor for multifunctional applications. Dalton Transactions, 2018, 47, 12228-12242.	3.3	58

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109	Luminescence behaviour of room temperature chemical processed all-inorganic CsPbCl ₃ perovskite cubes. AIP Conference Proceedings, 2018, , .	0.4	4
110	Room temperature solution processed low dimensional CH ₃ NH ₃ PbI ₃ NIR detector. AIP Conference Proceedings, 2018, , .	0.4	1
111	3D hierarchical architecture based on 1D TiO ₂ nanorod and 2D MnO ₂ nanoflake for high performance supercapacitor electrode. AIP Conference Proceedings, 2018, , .	0.4	0
112	Hierarchical heterostructure of MoS ₂ flake anchored on TiO ₂ sphere for supercapacitor application. AIP Conference Proceedings, 2018, , .	0.4	5
113	Resonant energy transfer in a van der Waals stacked MoS ₂ functionalized graphene quantum dot composite with <i>ab initio</i> validation. Nanoscale, 2018, 10, 16822-16829.	5.6	10
114	Amorphous Carbon Nanotubes/Nickel Oxide Nanoflower Hybrids: A Low Cost Energy Storage Material. ACS Omega, 2018, 3, 6311-6320.	3.5	22
115	Low temperature synthesis of graphitic carbon nitride nanorods for heavy metal ions sensing. Solid State Sciences, 2018, 82, 99-105.	3.2	14
116	Graphene wrapped Copper Phthalocyanine nanotube: Enhanced photocatalytic activity for industrial waste water treatment. Applied Surface Science, 2017, 418, 156-162.	6.1	71
117	Raman Spectroscopic Observation of Gradual Polymorphic Transition and Phonon Modes in CuPc Nanorod. Journal of Physical Chemistry C, 2017, 121, 6323-6328.	3.1	13
118	Novel Quaternary Chalcogenide/Reduced Graphene Oxide-Based Asymmetric Supercapacitor with High Energy Density. ACS Applied Materials & Interfaces, 2017, 9, 22652-22664.	8.0	69
119	Topological Insulator Bi ₂ Se ₃ /Si-Nanowire-Based p-n Junction Diode for High-Performance Near-Infrared Photodetector. ACS Applied Materials & Interfaces, 2017, 9, 22788-22798.	8.0	66
120	Three dimensional CuO nanoflakes on flexible carbon fabric for high performance supercapacitor. AIP Conference Proceedings, 2017, , .	0.4	0
121	En route to the conductivity bottleneck in p-type CuCr _{1-x} M _x O ₂ -ySy (M = Li, Mg). AIP Conference Proceedings, 2017, , .	0.4	1
122	Facile synthesis of ZnPc nanocubes: An electron emitting material for field emission display devices. AIP Conference Proceedings, 2017, , .	0.4	2
123	Negative capacitance in ZnO _{1-x} Ch _x (Ch = S, Se, Te): Role of localized charge recombination. Journal of Applied Physics, 2017, 121, .	2.5	10
124	Role of oxygen functionality on the band structure evolution and conductance of reduced graphene oxide. Chemical Physics Letters, 2017, 677, 80-86.	2.6	15
125	Solvent Dependent Phase Transition between Two Polymorphic Phases of Manganese Tungstate: From Rigid to Hollow Microsphere. Crystal Growth and Design, 2017, 17, 719-729.	3.0	1
126	Sonocatalytic activity of solution processed zinc oxide nanowires: Efficient remediation of organic pollutants. , 2017, , .		1

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127	Band edge tuned Zn _x Cd _{1-x} S solid solution nanopowders for efficient solar photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29998-30009.	2.8	16
128	Graphene-Anchored p-Type CuBO ₂ Nanocrystals for a Transparent Cold Cathode. <i>Langmuir</i> , 2017, 33, 9961-9971.	3.5	8
129	Perovskites beyond photovoltaics: field emission from morphology-tailored nanostructured methylammonium lead triiodide. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26708-26717.	2.8	10
130	Negative-charge-functionalized carbon nanodot: a low-cost smart cold emitter. <i>Nanotechnology</i> , 2017, 28, 395705.	2.6	1
131	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
132	Co ₃ O ₄ Nanowires on Flexible Carbon Fabric as a Binder-Free Electrode for All Solid-State Symmetric Supercapacitor. <i>ACS Omega</i> , 2017, 2, 4216-4226.	3.5	76
133	Enhanced Electrochemical Performance of Copper Oxide Nanoparticle Decorated Amorphous Carbon Nanotubes. <i>Advanced Science, Engineering and Medicine</i> , 2017, 9, 263-270.	0.3	3
134	Raman imaging and stress quantification in self-assembled graphene oxide fiber <i>Latin Letters</i> TM . <i>Journal of Raman Spectroscopy</i> , 2016, 47, 845-851.	2.5	3
135	Temperature dependent electrical properties of polyaniline film grown on paper through aniline vapor polymerization. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
136	Morphology induced photo-degradation study of low temperature, chemically derived ZnO/SnO ₂ heterostructure. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	5
137	Catalyst free VLS deposition of Cu ₂ Se _{1-x} film for cold cathode application and its theoretical verification. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
138	A scheme of simultaneous cationic-anionic substitution in CuCrO ₂ for transparent and superior <i>p</i> - <i>n</i> -type transport. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 275109.	2.8	19
139	Facile synthesis of ZnPc nanoflakes for cold cathode emission. <i>RSC Advances</i> , 2016, 6, 42739-42744.	3.6	13
140	Local Field Enhancement-Induced Enriched Cathodoluminescence Behavior from CuI-RGO Nanophosphor Composite for Field-Emission Display Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25571-25577.	8.0	14
141	Enhancement of thermal conductivity of transformer oil by exfoliated white graphene nanosheets. , 2016, , .		4
142	RGO enveloped vertically aligned Co ₃ O ₄ nanowires on carbon fabric: a highly efficient prototype for flexible field emitter arrays. <i>RSC Advances</i> , 2016, 6, 91860-91869.	3.6	11
143	Nanostructured CaCu ₃ Ti ₄ O ₁₂ for environmental remediation through visible light active catalysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 10393-10398.	2.2	24
144	CdS nanoparticle coated carbon nanotube through magnetron sputtering and its improved field emission performance. <i>Current Applied Physics</i> , 2016, 16, 1293-1302.	2.4	12

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145	Cu ₂ O/g-C ₃ N ₄ nanocomposites: an insight into the band structure tuning and catalytic efficiencies. <i>Nanoscale</i> , 2016, 8, 19099-19109.	5.6	77
146	Structural origination of charge transfer complex nanostructures: Excellent candidate for field emission. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
147	ZnO-(Cu/Ag)TCNQ heterostructure network over flexible platform for enhanced cold cathode application. <i>Nanotechnology</i> , 2016, 27, 265601.	2.6	6
148	Enhanced Adsorption of Hexavalent Chromium onto Magnetic Calcium Ferrite Nanoparticles: Kinetic, Isotherm, and Neural Network Modeling. <i>Journal of Dispersion Science and Technology</i> , 2016, 37, 1806-1818.	2.4	59
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