

Karuna K Nanda

List of Publications by Year in descending order

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203
papers

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66343

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206
all docs

206
docs citations

206
times ranked

9189
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into Improving Photoelectrochemical Water-Splitting Performance Using Hematite Anode. Energy Technology, 2022, 10, 2100457.	3.8	10
2	Nicotiana genus: a green and sustainable source for designing of nitrogen-rich efficient carbon nanocomposites for the hydrogenation of nitrophenol and non-enzymatic glucose sensing. Materials Today Sustainability, 2022, 17, 100085.	4.1	4
3	Spatially dispersed one-dimensional carbon architecture on oxide framework for oxygen electrochemistry. Chemical Engineering Journal, 2022, 433, 133649.	12.7	10
4	Self-Assembled TMD Nanoparticles on N-Doped Carbon Nanostructures for Oxygen Reduction Reaction and Electrochemical Oxygen Sensing Thereof. ACS Applied Materials & Interfaces, 2022, 14, 5134-5148.	8.0	12
5	Interfacial Electron Transfer Strategy to Improve the Hydrogen Evolution Catalysis of CrP Heterostructure. Small, 2022, 18, e2106139.	10.0	9
6	Trimetallic oxide-hydroxide porous nanosheets for efficient water oxidation. Chemical Engineering Journal, 2022, 435, 135019.	12.7	13
7	Designed synthesis of a hierarchical $\text{MoSe}_2/\text{WSe}_2$ hybrid nanostructure as a bifunctional electrocatalyst for total water-splitting. Sustainable Energy and Fuels, 2022, 6, 1708-1718.	4.9	7
8	Design of Hierarchical Oxide-Carbon Nanostructures for Trifunctional Electrocatalytic Applications. Advanced Materials Interfaces, 2022, 9, .	3.7	8
9	Modulating the Midgap States of 3D-2D Hybrid ZnO by Codoping and Its Effect on Visible Photocatalysis. Industrial & Engineering Chemistry Research, 2022, 61, 4244-4254.	3.7	2
10	FeCoNiMnCr High-Entropy Alloy Nanoparticle-Grafted NCNTs with Promising Performance in the Ohmic Polarization Region of Fuel Cells. ACS Applied Materials & Interfaces, 2022, 14, 16108-16116.	8.0	23
11	$\text{MoS}_2/\text{SnO}_2$ heterojunction-based self-powered photodetector. Applied Physics Letters, 2022, 120, .	3.3	9
12	Enhancement of Photoresponsivity of $\text{In}_2\text{S}_3/\text{Si}$ Broadband Photodetector by Decorating With Reduced-Graphene Oxide. IEEE Transactions on Electron Devices, 2022, 69, 4355-4361.	3.0	2
13	Current Insight into 3D Printing in Solid-State Lithium-Ion Batteries: A Perspective. Batteries and Supercaps, 2022, 5, .	4.7	19
14	Electrically Modulated Wavelength-Selective Photodetection Enabled by MoS_2/ZnO Heterostructure. Physical Review Applied, 2022, 17, .	3.8	11
15	Electronic structure modulation of molybdenum-iron double-atom catalyst for bifunctional oxygen electrochemistry. Chemical Engineering Journal, 2022, 449, 137705.	12.7	14
16	Universal avenue to metal-transition metal carbide grafted N-doped carbon framework as efficient dual Mott-Schottky electrocatalysts for water splitting. Sustainable Materials and Technologies, 2022, 33, e00451.	3.3	10
17	High-entropy alloys for water oxidation: a new class of electrocatalysts to look out for. Chemical Communications, 2021, 57, 611-614.	4.1	33
18	Ruthenium nanodendrites on reduced graphene oxide: an efficient water and 4-nitrophenol reduction catalyst. New Journal of Chemistry, 2021, 45, 1556-1564.	2.8	13

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19	Atomic Arrangement Modulation in CoFe Nanoparticles Encapsulated in N-Doped Carbon Nanostructures for Efficient Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3771-3781.	8.0	28
20	Review on recent progress in metal-organic framework-based materials for fabricating electrochemical glucose sensors. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7927-7954.	5.8	55
21	<i>In situ</i> self-organization of uniformly dispersed Co-N-C centers at moderate temperature without a sacrificial subsidiary metal. <i>Green Chemistry</i> , 2021, 23, 3115-3126.	9.0	24
22	Mechanistic study on nitrogen-doped graphitic carbon-reinforced chromium nitride as a durable electrocatalyst for oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16575-16584.	10.3	14
23	The Untold Tale of the ORR Polarization Curve. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10378-10385.	3.1	15
24	Identifying the Accuracy of Various Approaches for Determining the Fraction of Surface Atoms in a Nanoparticle to Deepen Students' Understanding of Size-Dependent Properties. <i>Journal of Chemical Education</i> , 2021, 98, 1982-1987.	2.3	3
25	Solution-Processed SnSe ₂ -RGO-Based Bulk Heterojunction for Self-Powered and Broadband Photodetection. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3131-3138.	4.3	12
26	Electrical transport modulation of VO ₂ /Si(111) heterojunction by engineering interfacial barrier height. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	7
27	Asymmetric Supercapacitors with Nanostructured RuS ₂ . <i>Energy & Fuels</i> , 2021, 35, 12671-12679.	5.1	8
28	Overcoming the Challenges Associated with the InN/InGaN Heterostructure via a Nanostructuring Approach for Broad Band Photodetection. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4243-4253.	4.3	4
29	Differentiation of ultraviolet/visible photons from near infrared photons by MoS ₂ /GaN/Si-based photodetector. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	19
30	pH-dependent hydrogen evolution using spatially confined ruthenium on hollow N-doped carbon nanocages as a Mott-Schottky catalyst. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13958-13966.	10.3	40
31	Robust Visible-Blind Wearable Infrared Sensor Based on IrP ₂ Nanoparticle-Embedded Few-Layer Graphene and the Effect of Photogating. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54258-54265.	8.0	0
32	Inhomogeneity-mediated systematic reduction of the Schottky barrier in a Au/GaN nanorod film interface. <i>Semiconductor Science and Technology</i> , 2021, 36, 015017.	2.0	3
33	Uniform Distribution of Ruthenium Nanoparticles on Nitrogen-Doped Carbon Nanostructure for Oxygen Reduction Reaction. <i>ACS Applied Energy Materials</i> , 2021, 4, 12191-12200.	5.1	5
34	Defect and strain modulated highly efficient ZnO UV detector: Temperature and low-pressure dependent studies. <i>Applied Surface Science</i> , 2020, 505, 144365.	6.1	46
35	On the origin of metallicity and stability of the metastable phase in chemically exfoliated MoS ₂ . <i>Applied Materials Today</i> , 2020, 19, 100544.	4.3	8
36	Harvesting energy via stimuli-free water/moisture dissociation by mesoporous SnO ₂ -based hydroelectric cell and CuO as a pump for atmospheric moisture. <i>International Journal of Energy Research</i> , 2020, 44, 1276-1283.	4.5	11

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37	Alkaline earth metal based single atom catalyst for the highly durable oxygen reduction reaction. <i>Applied Materials Today</i> , 2020, 21, 100846.	4.3	16
38	Construction of noble-metal alloys of cobalt confined N-doped carbon polyhedra toward efficient water splitting. <i>Green Chemistry</i> , 2020, 22, 7884-7895.	9.0	56
39	Temperature-Dependent Electrical Transport and Optoelectronic Properties of SnS ₂ /p-Si Heterojunction. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2155-2163.	4.3	23
40	Inner Sphere Electron Transfer Promotion on Homogeneously Dispersed Fe-N _x Centers for Energy-Efficient Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36026-36039.	8.0	39
41	Energy-Efficient Rational Designing of Multifunctional Nanocomposites by Preferential Anchoring of Metal Ions via Fermi Level Positioning of Carbon Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53749-53759.	8.0	8
42	Temperature Dependent S-Shaped Photoluminescence Behavior of InGaN Nanolayers: Optoelectronic Implications in Harsh Environment. <i>ACS Applied Nano Materials</i> , 2020, 3, 8453-8460.	5.0	9
43	Device Architecture for Visible and Near-Infrared Photodetectors Based on Two-Dimensional SnSe ₂ and MoS ₂ : A Review. <i>Micromachines</i> , 2020, 11, 750.	2.9	19
44	Self-Organized Single-Atom Tungsten Supported on the N-Doped Carbon Matrix for Durable Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43586-43595.	8.0	29
45	Self-powered, ultrasensitive, room temperature humidity sensors using SnS ₂ nanofilms. <i>Scientific Reports</i> , 2020, 10, 14611.	3.3	20
46	Unique One-Step Strategy for Nonmetallic and Metallic Heteroatom Doped Carbonaceous Materials. <i>ACS Omega</i> , 2020, 5, 32852-32860.	3.5	16
47	Defect-Mediated Transport in Self-Powered, Broadband, and Ultrafast Photoresponse of a MoS ₂ /AlN/Si-Based Photodetector. <i>ACS Applied Electronic Materials</i> , 2020, 2, 944-953.	4.3	40
48	Different types of band alignment at MoS ₂ /(Al, Ga, In)N heterointerfaces. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	16
49	Highly Responsive, Self-Powered GaN Based UV-A Photodetectors Driven by Unintentional Asymmetrical Electrodes. <i>ACS Applied Electronic Materials</i> , 2020, 2, 769-779.	4.3	31
50	Next-generation self-powered and ultrafast photodetectors based on III-nitride hybrid structures. <i>APL Materials</i> , 2020, 8, .	5.1	30
51	Giant enhancement in photoresponse via engineering of photo-induced charge (electron and hole) transfer in linear and non-linear devices. <i>Sensors and Actuators A: Physical</i> , 2020, 304, 111842.	4.1	6
52	Mechanistic Investigation into Efficient Water Oxidation by Co-Ni-Based Hybrid Oxide Hydroxide Flowers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13888-13895.	8.0	31
53	Dual roles of a transparent polymer film containing dispersed N-doped carbon dots: A high-efficiency blue light converter and UV screen. <i>Applied Surface Science</i> , 2020, 510, 145405.	6.1	36
54	Nickel in nitrogen-doped graphene nanotube as efficient electrocatalyst for water splitting. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0

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55	ZnO hybrid microstructures as dark catalyst. AIP Conference Proceedings, 2019, , .	0.4	1
56	Unconventional energy transfer from narrow to broad luminescent wide band gap materials. Europhysics Letters, 2019, 127, 17003.	2.0	1
57	“Rinse, Repeat” An Efficient and Reusable SERS and Catalytic Platform Fabricated by Controlled Deposition of Silver Nanoparticles on Cellulose Paper. ACS Sustainable Chemistry and Engineering, 2019, 7, 14089-14101.	6.7	54
58	Double Gaussian distribution of barrier heights and self-powered infrared photoresponse of InN/AlN/Si (111) heterostructure. Journal of Applied Physics, 2019, 126, .	2.5	19
59	In Situ Decoration of Ultrafine Ru Nanocrystals on N-Doped Graphene Tube and Their Applications as Oxygen Reduction and Hydrogen Evolution Catalyst. ACS Applied Energy Materials, 2019, 2, 7330-7339.	5.1	32
60	Highly Responsive ZnO/AlN/Si Heterostructure-Based Infrared- and Visible-Blind Ultraviolet Photodetectors With High Rejection Ratio. IEEE Transactions on Electron Devices, 2019, 66, 1345-1352.	3.0	17
61	Photodetection Properties of Nonpolar “Plane GaN Grown by Three Approaches Using Plasma-Assisted Molecular Beam Epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900171.	1.8	17
62	Expanding Interlayer Spacing in MoS ₂ for Realizing an Advanced Supercapacitor. ACS Energy Letters, 2019, 4, 1602-1609.	17.4	195
63	Investigation of electrical, mechanical, and thermal properties of functionalized multiwalled carbon nanotubes-reduced graphene Oxide/PMMA hybrid nanocomposites. Polymer Engineering and Science, 2019, 59, 1075-1083.	3.1	14
64	Self-Powered, Broad Band, and Ultrafast InGaN-Based Photodetector. ACS Applied Materials & Interfaces, 2019, 11, 10418-10425.	8.0	61
65	Photon-Free Degradation of Dyes by Ge/GeO ₂ Porous Microstructures. ACS Sustainable Chemistry and Engineering, 2019, 7, 6611-6618.	6.7	14
66	Pd-coated Ru nanocrystals supported on N-doped graphene as HER and ORR electrocatalysts. Chemical Communications, 2019, 55, 13928-13931.	4.1	51
67	Toward a Fast and Highly Responsive SnSe ₂ -Based Photodiode by Exploiting the Mobility of the Counter Semiconductor. ACS Applied Materials & Interfaces, 2019, 11, 6184-6194.	8.0	39
68	Effective Surface Area Tuning of Noble Metal-Free CuBO ₂ /rGO Nanohybrid for Efficient Hydrogen Production with “On-Off” Switching. ACS Applied Energy Materials, 2019, 2, 260-268.	5.1	18
69	Non-Precious Bimetallic CoCr Nanostructures Entrapped in Bamboo-Like Nitrogen-Doped Graphene Tube As a Robust Bifunctional Electrocatalyst for Total Water Splitting. ACS Applied Energy Materials, 2018, 1, 1116-1126.	5.1	41
70	A comprehensive analysis and rational designing of efficient Fe-based oxygen electrocatalysts for metal-air batteries. Journal of Materials Chemistry A, 2018, 6, 8537-8548.	10.3	39
71	Enhanced Solar Light Absorption and Photoelectrochemical Conversion Using TiN Nanoparticle-Incorporated C ₃ N ₄ “C Dot Sheets. ACS Applied Materials & Interfaces, 2018, 10, 2460-2468.	8.0	64
72	Ultrafast-Versatile-Domestic-Microwave-Oven Based Graphene Oxide Reactor for the Synthesis of Highly Efficient Graphene Based Hybrid Electrocatalysts. ACS Sustainable Chemistry and Engineering, 2018, 6, 4037-4045.	6.7	11

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73	In-Plane Anisotropic Photoconduction in Nonpolar Epitaxial <i>c</i> -Plane GaN. ACS Applied Materials & Interfaces, 2018, 10, 16918-16923.	8.0	33
74	Temperature sensing using sulfur-doped carbon nanoparticles. Carbon, 2018, 133, 200-208.	10.3	27
75	Large scale synthesis of reduced graphene oxide using ferrocene and HNO ₃ . Materials Letters, 2018, 211, 335-338.	2.6	10
76	MgO Nanocubes as Self-Calibrating Optical Probes for Efficient Ratiometric Detection of Picric Acid in the Solid State. ACS Sustainable Chemistry and Engineering, 2018, 6, 13719-13729.	6.7	17
77	In Situ Fabrication of a Nickel/Molybdenum Carbide-Anchored N-Doped Graphene/CNT Hybrid: An Efficient (Pre)catalyst for OER and HER. ACS Applied Materials & Interfaces, 2018, 10, 35025-35038.	8.0	185
78	Reduced graphene oxide-based broad band photodetector and temperature sensor: effect of gas adsorption on optoelectrical properties. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	14
79	<i>Anthocephalus cadamba</i> shaped FeNi encapsulated carbon nanostructures for metal-free air batteries as a resilient bifunctional oxygen electrocatalyst. Journal of Materials Chemistry A, 2018, 6, 20411-20420.	10.3	67
80	Effect of inhomogeneous mesoporosity and defects on the luminescent properties of slanted silicon nanowires prepared by facile metal-assisted chemical etching. Journal of Applied Physics, 2018, 124, 104303.	2.5	9
81	Note: Simultaneous water quality monitoring and degradation of hazardous organic pollutants. Review of Scientific Instruments, 2018, 89, 096102.	1.3	5
82	Green synthesis of MoS ₂ nanoflowers for efficient degradation of methylene blue and crystal violet dyes under natural sun light conditions. New Journal of Chemistry, 2018, 42, 14318-14324.	2.8	65
83	CoFe Nanoalloys Encapsulated in N-Doped Graphene Layers as a Pt-Free Multifunctional Robust Catalyst: Elucidating the Role of Co-Alloying and N-Doping. ACS Sustainable Chemistry and Engineering, 2018, 6, 12736-12745.	6.7	50
84	An Extrinsic Approach Toward Achieving Fast Response and Self-Powered Photodetector. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800470.	1.8	20
85	An efficient on-board metal-free nanocatalyst for controlled room temperature hydrogen production. Chemical Science, 2017, 8, 2994-3001.	7.4	36
86	Phosphine-free avenue to Co ₂ P nanoparticle encapsulated N,P co-doped CNTs: a novel non-enzymatic glucose sensor and an efficient electrocatalyst for oxygen evolution reaction. Green Chemistry, 2017, 19, 1327-1335.	9.0	141
87	A unique approach to designing resilient bi-functional nano-electrocatalysts based on ultrafine bimetallic nanoparticles dispersed in carbon nanospheres. Journal of Materials Chemistry A, 2017, 5, 10544-10553.	10.3	33
88	Facile synthesis of ultrafine Ru nanocrystal supported N-doped graphene as an exceptional hydrogen evolution electrocatalyst in both alkaline and acidic media. Sustainable Energy and Fuels, 2017, 1, 1028-1033.	4.9	46
89	Designing Dual Emissions via Co-doping or Physical Mixing of Individually Doped ZnO and Their Implications in Optical Thermometry. ACS Applied Materials & Interfaces, 2017, 9, 16305-16312.	8.0	46
90	White Light Emission from Black Germanium. ACS Photonics, 2017, 4, 1722-1729.	6.6	11

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91	Ultrahigh-sensitive optical temperature sensing based on quasi-thermalized green emissions from Er:ZnO. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2346-2352.	2.8	31
92	Red emitting Eu:ZnO nanorods for highly sensitive fluorescence intensity ratio based optical thermometry. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1074-1082.	5.5	76
93	Thioacetamide-derived nitrogen and sulfur co-doped carbon nanoparticles used for label-free detection of copper(II) ions and bioimaging applications. <i>New Journal of Chemistry</i> , 2017, 41, 13742-13746.	2.8	8
94	Maximizing the utilization of Fe _x C/CN _x centres for an air-cathode material and practical demonstration of metal-air batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20252-20262.	10.3	46
95	Negative-charge-functionalized carbon nanodot: a low-cost smart cold emitter. <i>Nanotechnology</i> , 2017, 28, 395705.	2.6	1
96	Facile and one-step synthesis of a free-standing 3D MoS ₂ /rGO/Mo binder-free electrode for efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18081-18087.	10.3	39
97	Reduced graphene oxide film based highly responsive infrared detector. <i>Materials Research Express</i> , 2017, 4, 085603.	1.6	8
98	Rational geometrical engineering of palladium sulfide multi-arm nanostructures as a superior bi-functional electrocatalyst. <i>Nanoscale</i> , 2017, 9, 12628-12636.	5.6	16
99	Band Gap Engineering of Hexagonal SnSe ₂ Nanostructured Thin Films for Infra-Red Photodetection. <i>Scientific Reports</i> , 2017, 7, 15215.	3.3	102
100	Sequential Elemental Dealloying Approach for the Fabrication of Porous Metal Oxides and Chemiresistive Sensors Thereof for Electronic Listening. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41428-41434.	8.0	27
101	Mechanistic view on efficient photodetection by solvothermally reduced graphene oxide. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 14818-14826.	2.2	9
102	Designing N-doped carbon nanotubes and Fe ₃ C nanostructures co-embedded in B-doped mesoporous carbon as an enduring cathode electrocatalyst for metal-air batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16843-16853.	10.3	83
103	Experimental evidence on RH-dependent crossover from an electronic to protonic conduction with an oscillatory behaviour. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	15
104	Enhanced UV Photodetector Response of ZnO/Si With AlN Buffer Layer. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 4161-4166.	3.0	25
105	Direct synthesis of Pt-free catalyst on gas diffusion layer of fuel cell and usage of high boiling point fuels for efficient utilization of waste heat. <i>Applied Energy</i> , 2017, 205, 1050-1058.	10.1	20
106	Effects of nanoscale morphology and defects in oxide: optoelectronic functions of zinc oxide nanowires. <i>Radiation Effects and Defects in Solids</i> , 2016, 171, 22-33.	1.2	9
107	A noble and single source precursor for the synthesis of metal-rich sulphides embedded in an N-doped carbon framework for highly active OER electrocatalysts. <i>Dalton Transactions</i> , 2016, 45, 6352-6356.	3.3	33
108	Understanding the ammonia sensing behavior of filter coffee powder derived N-doped carbon nanoparticles using the Freundlich-like isotherm. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8860-8865.	10.3	19

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109	One-step, integrated fabrication of Co ₂ P nanoparticles encapsulated N, P dual-doped CNTs for highly advanced total water splitting. Nano Energy, 2016, 30, 303-311.	16.0	195
110	Strong Red Luminescent Twin ZnO Nanorods for Nano-thermometry Application. MRS Advances, 2016, 1, 869-874.	0.9	2
111	Understanding of nitrogen-doped carbon nanoparticles based solid phosphors for white light emitting diodes. RSC Advances, 2016, 6, 67751-67755.	3.6	3
112	Temperature-Dependent Photoluminescence of g-C ₃ N ₄ : Implication for Temperature Sensing. ACS Applied Materials & Interfaces, 2016, 8, 2181-2186.	8.0	140
113	Nitrogen-assisted electroless assembling of 3D nanodendrites consisting of Pd and N-doped carbon nanoparticles as bifunctional catalysts. Green Chemistry, 2016, 18, 2115-2121.	9.0	28
114	Boron-doped carbon nanoparticles: Size-independent color tunability from red to blue and bioimaging applications. Carbon, 2016, 96, 166-173.	10.3	59
115	Au Nanocomposite Based Chemiresistive Ammonia Sensor for Health Monitoring. ACS Sensors, 2016, 1, 55-62.	7.8	148
116	Prussian blue as a single precursor for synthesis of Fe/Fe ₃ C encapsulated N-doped graphitic nanostructures as bi-functional catalysts. Green Chemistry, 2016, 18, 427-432.	9.0	152
117	Enhanced photocatalytic activity of ultra-high aspect ratio ZnO nanowires due to Cu induced defects. Radiation Effects and Defects in Solids, 2015, 170, 939-944.	1.2	1
118	Hetero-atom doped carbon nanotubes for dye degradation and oxygen reduction reaction. AIP Conference Proceedings, 2015, , .	0.4	0
119	Air stable iron/iron carbide magnetic nanoparticles embedded in amorphous carbon globules. AIP Conference Proceedings, 2015, , .	0.4	0
120	Evaporation-condensation synthesis and optical property of In ₂ O ₃ octahedrons. AIP Conference Proceedings, 2015, , .	0.4	0
121	Boron and Nitrogen Co-doped Carbon Nanoparticles as Photoluminescent Probes for Selective and Sensitive Detection of Picric Acid. Journal of Physical Chemistry C, 2015, 119, 13138-13143.	3.1	100
122	Luminescence from wide band gap materials and their applications. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2015, 6, 015002.	1.5	10
123	Uninterrupted galvanic reaction for scalable and rapid synthesis of metallic and bimetallic sponges/dendrites as efficient catalysts for 4-nitrophenol reduction. Dalton Transactions, 2015, 44, 4215-4222.	3.3	25
124	Wide-Range Thermometry at Micro/Nano Length Scales with In ₂ O ₃ Octahedrons as Optical Probes. ACS Applied Materials & Interfaces, 2015, 7, 23481-23488.	8.0	27
125	Si-mediated fabrication of reduced graphene oxide and its hybrids for electrode materials. Green Chemistry, 2015, 17, 776-780.	9.0	4
126	Multistage effect in enhancing the field emission behaviour of ZnO branched nanostructures. Applied Physics Letters, 2014, 104, .	3.3	9

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127	An electrochemical method for the synthesis of few layer graphene sheets for high temperature applications. <i>Chemical Communications</i> , 2014, 50, 4613.	4.1	36
128	Hexamethylenetetramine mediated simultaneous nitrogen doping and reduction of graphene oxide for a metal-free SERS substrate. <i>RSC Advances</i> , 2014, 4, 44146-44150.	3.6	17
129	Detailed understanding of the excitation-intensity dependent photoluminescence of ZnO materials: Role of defects. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	20
130	Facile hydrothermal synthesis of carbon nanoparticles and possible application as white light phosphors and catalysts for the reduction of nitrophenol. <i>RSC Advances</i> , 2014, 4, 11481.	3.6	34
131	Nanocomposite based flexible ultrasensitive resistive gas sensor for chemical reactions studies. <i>Scientific Reports</i> , 2013, 3, 2082.	3.3	114
132	The dual role of Zn ²⁺ acid medium for one-step rapid synthesis of M@rGO (M = Au, Pt, Pd and Ag) hybrid nanostructures at room temperature. <i>Chemical Communications</i> , 2013, 49, 8949.	4.1	45
133	A comparison of ZnO films deposited on indium tin oxide and soda lime glass under identical conditions. <i>AIP Advances</i> , 2013, 3, .	1.3	3
134	Carbon nanotube-ZnO nanowire hybrid architectures as multifunctional devices. <i>AIP Advances</i> , 2013, 3, 082106.	1.3	14
135	Instantaneous reduction of graphene oxide at room temperature. <i>RSC Advances</i> , 2013, 3, 12621.	3.6	34
136	Excellent performance of Pt-free cathode in alkaline direct methanol fuel cell at room temperature. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3133.	10.3	35
137	Thermal oxidation strategy for the synthesis of phase-controlled GeO ₂ and photoluminescence characterization. <i>CrystEngComm</i> , 2013, 15, 1043-1046.	2.6	27
138	Excitation- and power-dependent photoluminescence from oxidized Ge. <i>Materials Letters</i> , 2013, 101, 5-8.	2.6	0
139	Mechanism for the Compressive Strain Induced Oscillations in the Conductance of Carbon Nanotubes. <i>Physical Review Letters</i> , 2013, 110, 095504.	7.8	7
140	Doping by diffusion of dopants from the substrate: synthesis of doped ZnO nanowires. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1066-1069.	5.5	4
141	Various quantum mechanical concepts for confinements in semiconductor nanocrystals. <i>Resonance</i> , 2013, 18, 771-776.	0.3	0
142	Towards the understanding of formation of micro/nano holes of Ge/GeO ₂ through phase mapping. <i>CrystEngComm</i> , 2013, 15, 4049.	2.6	12
143	Wide-Range Temperature Sensing using Highly Sensitive Green-Luminescent ZnO and PMMA-ZnO Film as a Non-Contact Optical Probe. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11325-11328.	13.8	44
144	Ultralong ZnO nanowires: Problems and prospects. <i>Materials Express</i> , 2013, 3, 185-200.	0.5	2

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145	Uninterrupted and reusable source for the controlled growth of nanowires. Scientific Reports, 2013, 3, 1172.	3.3	11
146	Core-Shell Nanostructures: Modeling, Fabrication, Properties, and Applications. Journal of Nanomaterials, 2012, 2012, 1-2.	2.7	3
147	Electrical properties of buckled multiwalled carbon nanotube arrays in the diffusive regime. Europhysics Letters, 2012, 99, 56006.	2.0	0
148	Electrical breakdown of carbon nanotube devices and the predictability of breakdown position. AIP Advances, 2012, 2, .	1.3	4
149	Unusual photoresponse of indium doped ZnO/organic thin film heterojunction. Applied Physics Letters, 2012, 100, .	3.3	62
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