

Avshish Kumar

List of Publications by Year in descending order

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58
papers

637
citations

567281

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713466

21
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60
times ranked

643
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast, trace-level detection of NH ₃ gas at room temperature using hexagonal-shaped ZnO nanoparticles grown by novel green synthesis technique. <i>Physica B: Condensed Matter</i> , 2022, 626, 413595.	2.7	12
2	Ultrafast trace-level detection of methyl nicotinate biomarker using TiO ₂ /SiNWs nanocomposite-based sensing platform. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 3411-3423.	2.2	5
3	Ultrasensitive detection of formaldehyde at room temperature using Si-chip assisted MOS/SiNWs nanocomposite based sensor. <i>Journal of Alloys and Compounds</i> , 2022, 919, 165840.	5.5	5
4	Silicon nanowires/reduced graphene oxide nanocomposite based novel sensor platform for detection of cyclohexane and formaldehyde. <i>Materials Science in Semiconductor Processing</i> , 2021, 123, 105571.	4.0	26
5	Influence of silver doping on the structure, optical and photocatalytic properties of Ag-doped BaTiO ₃ ceramics. <i>Materials Chemistry and Physics</i> , 2021, 259, 124058.	4.0	26
6	Highly sensitive MWCNTs/SiNWs hybrid nanostructured sensor fabricated on silicon-chip for alcohol vapors detection. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 127, 114538.	2.7	6
7	BaTiO ₃ @rGO nanocomposite: enhanced photocatalytic activity as well as improved electrode performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 12911-12921.	2.2	21
8	Effect of shape and size of carbon materials on the thermophysical properties of magnesium nitrate hexahydrate for solar thermal energy storage applications. <i>Journal of Energy Storage</i> , 2021, 41, 102899.	8.1	13
9	Recent Advances on Enhanced Thermal Conduction in Phase Change Materials using Carbon Nanomaterials. <i>Journal of Energy Storage</i> , 2021, 43, 103173.	8.1	28
10	Cadmium Sulfide (CdS) Thin Films with Improved Morphology for Humidity Sensing by Chemical Bath Deposition at Lower pH. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 6035-6040.	0.9	4
11	Carbon Nanotube Alignment Techniques and Their Sensing Applications. <i>Advances in Sustainability Science and Technology</i> , 2021, , 307-348.	0.6	0
12	Enhanced thermophysical properties of Metal oxide nanoparticles embedded magnesium nitrate hexahydrate-based nanocomposite for thermal energy storage applications. <i>Journal of Energy Storage</i> , 2020, 32, 101773.	8.1	40
13	Zinc oxide nanoflowers synthesized by sol-gel technique for field emission displays (FEDs). <i>Materials Today: Proceedings</i> , 2020, 32, 402-406.	1.8	11
14	Metal nanoparticles enhanced thermophysical properties of phase change material for thermal energy storage. <i>Materials Today: Proceedings</i> , 2020, 32, 463-467.	1.8	17
15	Hydrothermally synthesized zinc oxide nanoparticles for reflectance study onto Si surface. <i>Materials Today: Proceedings</i> , 2020, 32, 287-293.	1.8	4
16	Fabrication of SiNWs/Graphene nanocomposite for IR sensing. <i>Materials Today: Proceedings</i> , 2020, 32, 397-401.	1.8	2
17	Thin film field effect transistors: Charge transport study in zinc quinolate complexes. <i>Materials Today: Proceedings</i> , 2020, 32, 301-303.	1.8	1
18	Investigation of Heat Transfer Characteristics of Al ₂ O ₃ -Embedded Magnesium Nitrate Hexahydrate-Based Nanocomposites for Thermal Energy Storage. <i>Springer Proceedings in Energy</i> , 2020, , 17-26.	0.3	4

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19	Synthesis of ZnO Nanostructures Using RTCVD, Suitable for Various Applications. Springer Proceedings in Energy, 2020, , 191-198.	0.3	0
20	Improved Thermal Conductivity and Energy Storage Properties of Graphitized Carbon Black Based Magnesium Nitrate Hexahydrate Composite. Springer Proceedings in Physics, 2020, , 1-9.	0.2	0
21	Enhanced working efficiency of Si solar cell by water induced nano-porous thermal cooling layer. Materials Research Express, 2019, 6, 095053.	1.6	1
22	Structural effect of SWCNTs grown by PECVD towards NH ₃ gas sensing and field emission properties. Materials Research Bulletin, 2019, 119, 110532.	5.2	12
23	Synthesis and characterization of SWCNTs/ZnO hybrid nanocomposite for sensor applications. Materials Research Express, 2019, 6, 1050c5.	1.6	5
24	Synthesis of nanosized Cu ₂ O decorated single-walled carbon nanotubes and their superior catalytic activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 581, 123933.	4.7	14
25	Fabrication of sensitive SWCNT sensor for trace level detection of reducing and oxidizing gases (NH ₃) Tj ETQq1 1 0.784314 rgBT /Overl 206-214.	2.7	10
26	Enhancement of sensor response of as fabricated SWCNT sensor with gold decorated nanoparticles. Sensors and Actuators A: Physical, 2018, 274, 85-93.	4.1	13
27	Plasma enhanced chemical vapour deposition growth and physical properties of single-walled carbon nanotubes. Materials Letters, 2018, 219, 269-272.	2.6	15
28	Multiwall carbon nanotubes/polyaniline: Polyacrylonitrile: Polyaniline nanocomposites"Synthesis, properties & field emission. Polymer Composites, 2018, 39, E955.	4.6	4
29	Synthesis of highly dense and vertically aligned array of SWCNTs using a catalyst barrier layer: High performance field emitters for devices. Physica B: Condensed Matter, 2018, 550, 15-20.	2.7	10
30	Carbon based Nanomaterials: Synthesis and Applications (A Review). Indian Journal of Industrial and Applied Mathematics, 2018, 9, 133.	0.1	0
31	Low temperature synthesis and field emission characteristics of single to few layered graphene grown using PECVD. Applied Surface Science, 2017, 402, 161-167.	6.1	29
32	Risk factors for vertical transmission of hepatitis E virus infection. Journal of Viral Hepatitis, 2017, 24, 1067-1075.	2.0	48
33	Oxygen and nitrogen doping in single wall carbon nanotubes: An efficient stable field emitter. Journal of Alloys and Compounds, 2017, 711, 85-93.	5.5	15
34	Fowler Nordheim theory of carbon nanotube based field emitters. Physica B: Condensed Matter, 2017, 505, 1-8.	2.7	26
35	Growth of single wall carbon nanotubes using PECVD technique: An efficient chemiresistor gas sensor. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 87, 261-265.	2.7	16
36	Growth of Carbon Nanotubes by PECVD and its Applications: A Review. Current Nanoscience, 2017, 13, .	1.2	8

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37	Decoration of zinc oxide nanoparticles on vertically aligned single wall carbon nanotubes: An efficient field emitter. <i>Materials Research Bulletin</i> , 2016, 83, 12-18.	5.2	18
38	Advances in Nanomaterials. <i>Advanced Structured Materials</i> , 2016, , .	0.5	5
39	Introduction to Nanomaterials. <i>Advanced Structured Materials</i> , 2016, , 1-23.	0.5	13
40	Improved field emission properties of carbon nanotubes by dual layer deposition. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 499-510.	2.4	8
41	Selective Growth of Single Wall Carbon Nanotubes Uniformly Grown by Plasma Enhanced Chemical Vapour Deposition System. <i>Advanced Science Letters</i> , 2015, 21, 2887-2890.	0.2	1
42	Synthesis and Characterization of Multi-Layer Graphene Using Low Pressure Chemical Vapor Deposition Method. <i>Advanced Science Letters</i> , 2015, 21, 2940-2942.	0.2	0
43	Enhancement of Field Emission Properties of Carbon Nanotubes by ECR-Plasma Treatment. <i>Journal of Nanoscience</i> , 2014, 2014, 1-5.	2.6	5
44	A comparative study of nitrogen plasma effect on field emission characteristics of single wall carbon nanotubes synthesized by plasma enhanced chemical vapor deposition. <i>Applied Surface Science</i> , 2014, 322, 236-241.	6.1	15
45	Effect of oxygen plasma on field emission characteristics of single-wall carbon nanotubes grown by plasma enhanced chemical vapour deposition system. <i>Journal of Applied Physics</i> , 2014, 115, 084308.	2.5	18
46	Study of Forster's Resonance Energy Transfer Between MWCNT and Phenoxazone 660. <i>Environmental Science and Engineering</i> , 2014, , 521-522.	0.2	0
47	Effect of parametric variation on the performance of single wall carbon nanotube based field effect transistor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 64, 178-182.	2.7	7
48	Field-Emission Study of Carbon Nanotubes Grown by Low Pressure Chemical Vapour Deposition on Single and Dual Layer of Catalyst. <i>Environmental Science and Engineering</i> , 2014, , 527-529.	0.2	2
49	Raman Characteristics of Vertically Aligned Single Wall Carbon Nanotubes Grown by Plasma Enhanced Chemical Vapor Deposition System. <i>Environmental Science and Engineering</i> , 2014, , 563-564.	0.2	1
50	Field emission of MWCNTs/PANi nanocomposites prepared by <i>ex situ</i> and <i>in situ</i> polymerization methods. <i>Polymer Composites</i> , 2013, 34, 1298-1305.	4.6	11
51	Enhanced Field Emission Properties of Carbon Nanotube Based Field Emitters by Dynamic Oxidation. <i>Current Nanoscience</i> , 2013, 9, 619-623.	1.2	5
52	Improving the field emission of carbon nanotubes by lanthanum-hexaboride nano-particles decoration. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	26
53	Field Emission Study of Carbon Nanotubes Forest and Array Grown on Si Using Fe as Catalyst Deposited by Electro-Chemical Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 2829-2832.	0.9	18
54	Study of J-E Curve with Hysteresis of Carbon Nanotubes Field Emitters. <i>ISRN Nanomaterials</i> , 2012, 2012, 1-5.	0.7	4

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55	Characterization and Field Emission Studies of Uniformly Distributed Multi-Walled Carbon Nanotubes (MWCNTs) Film Grown by Low-pressure Chemical Vapour Deposition (LPCVD). <i>Current Nanoscience</i> , 2011, 7, 333-336.	1.2	10
56	Estimation of Effective Emitting Area of Carbon Nanotubes Based Field Emitters. <i>Nanoscience and Nanotechnology Letters</i> , 2011, 3, 794-797.	0.4	9
57	Effect of Catalyst-Deposition Methods on the Alignment of Carbon Nanotubes Grown by Low Pressure Chemical Vapor Deposition. <i>Nanoscience and Nanotechnology Letters</i> , 2011, 3, 175-178.	0.4	9
58	Trace level electrochemical analysis of arsenite in human serum utilising rGO/AuNPs based sensor platform. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-15.	3.3	1