

Avshish Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

637
citations

567281

15
h-index

713466

21
g-index

60
all docs

60
docs citations

60
times ranked

643
citing authors

#	ARTICLE	IF	CITATIONS
1	Risk factors for vertical transmission of hepatitis E virus infection. <i>Journal of Viral Hepatitis</i> , 2017, 24, 1067-1075.	2.0	48
2	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
3	Low temperature synthesis and field emission characteristics of single to few layered graphene grown using PECVD. <i>Applied Surface Science</i> , 2017, 402, 161-167.	6.1	29
4	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
5	Improving the field emission of carbon nanotubes by lanthanum-hexaboride nano-particles decoration. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	26
6	Fowler Nordheim theory of carbon nanotube based field emitters. <i>Physica B: Condensed Matter</i> , 2017, 505, 1-8.	2.7	26
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	Growth of single wall carbon nanotubes using PECVD technique: An efficient chemiresistor gas sensor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 87, 261-265.	2.7	16
15	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
16	Oxygen and nitrogen doping in single wall carbon nanotubes: An efficient stable field emitter. <i>Journal of Alloys and Compounds</i> , 2017, 711, 85-93.	5.5	15
17	Plasma enhanced chemical vapour deposition growth and physical properties of single-walled carbon nanotubes. <i>Materials Letters</i> , 2018, 219, 269-272.	2.6	15
18	Synthesis of nanosized Cu ₂ O decorated single-walled carbon nanotubes and their superior catalytic activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 581, 123933.	4.7	14

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19	Introduction to Nanomaterials. Advanced Structured Materials, 2016, , 1-23.	0.5	13
20	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
21	Effect of shape and size of carbon materials on the thermophysical properties of magnesium nitrate hexahydrate for solar thermal energy storage applications. Journal of Energy Storage, 2021, 41, 102899.	8.1	13
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	Ultrafast, trace-level detection of NH ₃ gas at room temperature using hexagonal-shaped ZnO nanoparticles grown by novel green synthesis technique. Physica B: Condensed Matter, 2022, 626, 413595.	2.7	12
24	Field emission of MWCNTs/PANi nanocomposites prepared by <i>ex situ</i> and <i>in situ</i> polymerization methods. Polymer Composites, 2013, 34, 1298-1305.	4.6	11
25	Zinc oxide nanoflowers synthesized by sol-gel technique for field emission displays (FEDs). Materials Today: Proceedings, 2020, 32, 402-406.	1.8	11
26	Characterization and Field Emission Studies of Uniformly Distributed Multi-Walled Carbon Nanotubes (MWCNTs) Film Grown by Low-pressure Chemical Vapour Deposition (LPCVD). Current Nanoscience, 2011, 7, 333-336.	1.2	10
27	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
28	Fabrication of sensitive SWCNT sensor for trace level detection of reducing and oxidizing gases (NH ₃) Tj ETQq0 0 0 rgBT /Overlock 10 T 206-214.	2.7	10
29	Estimation of Effective Emitting Area of Carbon Nanotubes Based Field Emitters. Nanoscience and Nanotechnology Letters, 2011, 3, 794-797.	0.4	9
30	Effect of Catalyst-Deposition Methods on the Alignment of Carbon Nanotubes Grown by Low Pressure Chemical Vapor Deposition. Nanoscience and Nanotechnology Letters, 2011, 3, 175-178.	0.4	9
31	Improved field emission properties of carbon nanotubes by dual layer deposition. Journal of Experimental Nanoscience, 2015, 10, 499-510.	2.4	8
32	Growth of Carbon Nanotubes by PECVD and its Applications: A Review. Current Nanoscience, 2017, 13, .	1.2	8
33	Effect of parametric variation on the performance of single wall carbon nanotube based field effect transistor. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 64, 178-182.	2.7	7
34	Highly sensitive MWCNTs/SiNWs hybrid nanostructured sensor fabricated on silicon-chip for alcohol vapors detection. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 127, 114538.	2.7	6
35	Enhancement of Field Emission Properties of Carbon Nanotubes by ECR-Plasma Treatment. Journal of Nanoscience, 2014, 2014, 1-5.	2.6	5
36	Advances in Nanomaterials. Advanced Structured Materials, 2016, , .	0.5	5

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37	Synthesis and characterization of SWCNTs/ZnO hybrid nanocomposite for sensor applications. <i>Materials Research Express</i> , 2019, 6, 1050c5.	1.6	5
38	Enhanced Field Emission Properties of Carbon Nanotube Based Field Emitters by Dynamic Oxidation. <i>Current Nanoscience</i> , 2013, 9, 619-623.	1.2	5
39	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
40	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
41	Multiwall carbon nanotubes/polyaniline: Poly(ε-caprolactone): Poly(ε-caprolactone) nanocomposites—Synthesis, properties & field emission. <i>Polymer Composites</i> , 2018, 39, E955.	4.6	4
42	Hydrothermally synthesized zinc oxide nanoparticles for reflectance study onto Si surface. <i>Materials Today: Proceedings</i> , 2020, 32, 287-293.	1.8	4
43	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
44	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
45	Study of J-E Curve with Hysteresis of Carbon Nanotubes Field Emitters. <i>ISRN Nanomaterials</i> , 2012, 2012, 1-5.	0.7	4
46	Fabrication of SiNWs/Graphene nanocomposite for IR sensing. <i>Materials Today: Proceedings</i> , 2020, 32, 397-401.	1.8	2
47	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
48	Enhanced working efficiency of Si solar cell by water induced nano-porous thermal cooling layer. <i>Materials Research Express</i> , 2019, 6, 095053.	1.6	1
49	Thin film field effect transistors: Charge transport study in zinc quinolate complexes. <i>Materials Today: Proceedings</i> , 2020, 32, 301-303.	1.8	1
50	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
51	Selective Growth of Single Wall Carbon Nanotubes Uniformly Grown by Plasma Enhanced Chemical Vapor Deposition System. <i>Advanced Science Letters</i> , 2015, 21, 2887-2890.	0.2	1
52	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
53	Study of Förster's Resonance Energy Transfer Between MWCNT and Phenoxazone 660. <i>Environmental Science and Engineering</i> , 2014, , 521-522.	0.2	0
54	Carbon Nanotube Alignment Techniques and Their Sensing Applications. <i>Advances in Sustainability Science and Technology</i> , 2021, , 307-348.	0.6	0

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55	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
56	Carbon based Nanomaterials: Synthesis and Applications (A Review). <i>Indian Journal of Industrial and Applied Mathematics</i> , 2018, 9, 133.	0.1	0
57	Synthesis of ZnO Nanostructures Using RTCVD, Suitable for Various Applications. <i>Springer Proceedings in Energy</i> , 2020, , 191-198.	0.3	0
58	Improved Thermal Conductivity and Energy Storage Properties of Graphitized Carbon Black Based Magnesium Nitrate Hexahydrate Composite. <i>Springer Proceedings in Physics</i> , 2020, , 1-9.	0.2	0