

Dinesh Pratap Singh

List of Publications by Year in descending order

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59
papers

4,204
citations

218381

26
h-index

143772

57
g-index

62
all docs

62
docs citations

62
times ranked

6023
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical Milling: a Top Down Approach for the Synthesis of Nanomaterials and Nanocomposites. <i>Nanoscience and Nanotechnology</i> , 2012, 2, 22-48.	1.0	447
2	Graphene oxide: strategies for synthesis, reduction and frontier applications. <i>RSC Advances</i> , 2016, 6, 64993-65011.	1.7	428
3	A review on synthesis of graphene, h-BN and MoS ₂ for energy storage applications: Recent progress and perspectives. <i>Nano Research</i> , 2019, 12, 2655-2694.	5.8	283
4	Recent advances in the synthesis and modification of carbon-based 2D materials for application in energy conversion and storage. <i>Progress in Energy and Combustion Science</i> , 2018, 67, 115-157.	15.8	271
5	Laser-assisted synthesis, reduction and micro-patterning of graphene: Recent progress and applications. <i>Coordination Chemistry Reviews</i> , 2017, 342, 34-79.	9.5	230
6	Biosynthesis of gold and silver nanoparticles by natural precursor clove and their functionalization with amine group. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1667-1675.	0.8	215
7	Synthesis of Different Cu(OH) ₂ and CuO (Nanowires, Rectangles, Seed-, Belt-, and Tj ETQq1 1 0.784314 rgBT /Overlock 10 3409-3418.	1.5	214
8	Graphene oxide: An efficient material and recent approach for biotechnological and biomedical applications. <i>Materials Science and Engineering C</i> , 2018, 86, 173-197.	3.8	212
9	Natural and waste hydrocarbon precursors for the synthesis of carbon based nanomaterials: Graphene and CNTs. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 58, 976-1006.	8.2	179
10	Adaptive VN/Ag nanocomposite coatings with lubricious behavior from 25 to 1000°C. <i>Acta Materialia</i> , 2010, 58, 5326-5331.	3.8	177
11	Self-Assembled Hierarchical Formation of Conjugated 3D Cobalt Oxide Nanobead@CNT@Graphene Nanostructure Using Microwaves for High-Performance Supercapacitor Electrode. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15042-15051.	4.0	156
12	Progress in microwave-assisted synthesis of quantum dots (graphene/carbon/semiconducting) for bioapplications: a review. <i>Materials Today Chemistry</i> , 2019, 12, 282-314.	1.7	155
13	Growth of Different Nanostructures of Cu ₂ O (Nanothreads, Nanowires, and Nanocubes) by Simple Electrolysis Based Oxidation of Copper. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1638-1645.	1.5	134
14	Layered atomic structures of double oxides for low shear strength at high temperatures. <i>Scripta Materialia</i> , 2010, 62, 735-738.	2.6	130
15	Synthesis and Growth of ZnO Nanowires. <i>Science of Advanced Materials</i> , 2010, 2, 245-272.	0.1	94
16	Freestanding 3D Graphene@Nickel Encapsulated Nitrogen@Rich Aligned Bamboo Like Carbon Nanotubes for High-Performance Supercapacitors with Robust Cycle Stability. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500191.	1.9	82
17	Attachment of biomolecules (protein and DNA) to amino-functionalized carbon nanotubes. <i>New Carbon Materials</i> , 2009, 24, 301-306.	2.9	73
18	Synthesis of TiO ₂ and CuO Nanotubes and Nanowires. <i>Science of Advanced Materials</i> , 2010, 2, 295-335.	0.1	67

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19	Controlled density of defects assisted perforated structure in reduced graphene oxide nanosheets-palladium hybrids for enhanced ethanol electro-oxidation. <i>Carbon</i> , 2017, 117, 137-146.	5.4	65
20	Hydrothermal synthesis of a uniformly dispersed hybrid graphene-TiO ₂ nanostructure for optical and enhanced electrochemical applications. <i>RSC Advances</i> , 2015, 5, 7112-7120.	1.7	60
21	Synthesis of self-assembled and hierarchical palladium-CNTs-reduced graphene oxide composites for enhanced field emission properties. <i>Materials and Design</i> , 2017, 122, 110-117.	3.3	57
22	Microwave heating time dependent synthesis of various dimensional graphene oxide supported hierarchical ZnO nanostructures and its photoluminescence studies. <i>Materials and Design</i> , 2016, 111, 291-300.	3.3	52
23	Lactose nano-probe optimized using response surface methodology. <i>Biosensors and Bioelectronics</i> , 2009, 25, 784-790.	5.3	45
24	Synthesis, characterization and application of semiconducting oxide (Cu ₂ O and ZnO) nanostructures. <i>Bulletin of Materials Science</i> , 2008, 31, 319-325.	0.8	41
25	Room temperature synthesis and high temperature frictional study of silver vanadate nanorods. <i>Nanotechnology</i> , 2010, 21, 325601.	1.3	40
26	Textured VN coatings with Ag ₃ VO ₄ solid lubricant reservoirs. <i>Surface and Coatings Technology</i> , 2011, 206, 1932-1935.	2.2	31
27	Facile synthesis of highly fluorescent free-standing films comprising graphitic carbon nitride (g-C ₃ N ₄) nanolayers. <i>New Journal of Chemistry</i> , 2020, 44, 2644-2651.	1.4	29
28	pH-Controlled Assembly of 3D and 2D Zinc-Based Metal-Organic Frameworks with Tetrazole Ligands. <i>ACS Omega</i> , 2018, 3, 801-807.	1.6	23
29	Development of high efficient Co ₃ O ₄ /Bi ₂ O ₃ /rGO nanocomposite for an effective photocatalytic degradation of pharmaceutical molecules with improved interfacial charge transfer. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107243.	3.3	21
30	Ascorbic acid based controlled growth of various Cu and Cu ₂ O nanostructures. <i>Materials Research Express</i> , 2019, 6, 065033.	0.8	19
31	Highly zone-dependent synthesis of different carbon nanostructures using plasma-enhanced arc discharge technique. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	17
32	Synthesis of Micron-sized Hexagonal and Flower-like Nanostructures of Lead Oxide (PbO ₂) by Anodic Oxidation of Lead. <i>Nano-Micro Letters</i> , 2011, 3, 223-227.	14.4	16
33	Thermal characterization and stability analysis of aqueous ZnO-based nanofluids numerically implemented in microchannel heat sinks. <i>Thermal Science and Engineering Progress</i> , 2021, 22, 100792.	1.3	14
34	Electrical impedance spectroscopy characterization of n type Cu ₅ In ₉ Se ₁₆ semiconductor compound. <i>Physica B: Condensed Matter</i> , 2020, 593, 412283.	1.3	11
35	Azide-Based High-Energy Metal-Organic Frameworks with Enhanced Thermal Stability. <i>ACS Omega</i> , 2019, 4, 14398-14403.	1.6	10
36	Synthesis and Optical Properties of Different CuO (Ellipsoid, Ribbon and Sheet Like) Nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5345-5350.	0.9	9

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37	Enhanced antilipopolysaccharide (LPS) induced changes in macrophage functions by <i>Rubia cordifolia</i> (RC) embedded with Au nanoparticles. <i>Free Radical Biology and Medicine</i> , 2013, 65, 217-223.	1.3	9
38	Acetonitrile mediated facile synthesis and self-assembly of silver vanadate nanowires into 3D spongy-like structure as a cathode material for lithium ion battery. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	9
39	Controlled Growth of the Noncentrosymmetric Zn(3-ptz) ₂ and Zn(OH)(3-ptz) Metal-Organic Frameworks. <i>ACS Omega</i> , 2019, 4, 7411-7419.	1.6	9
40	Millimeter-Scale Zn(3-ptz) ₂ Metal-Organic Framework Single Crystals: Self-Assembly Mechanism and Growth Kinetics. <i>ACS Omega</i> , 2021, 6, 17289-17298.	1.6	8
41	Synthesis, characterizations and applications of some nanomaterials (TiO ₂ and SiC nanostructured) of Physics, 2005, 65, 581-592.	0.9	6
42	Synthesis of C ₆₀ nanotube blocks and Y-junctions in bamboo-like C ₆₀ nanotubes. <i>Journal of Nanoparticle Research</i> , 2008, 10, 1349-1354.	0.8	6
43	The Effect of Ag-Decoration on rGO/Water Nanofluid Thermal Conductivity and Viscosity. <i>Nanomaterials</i> , 2022, 12, 1095.	1.9	6
44	Formation and Size Dependence of Germanium Nanoparticles at Different Helium Pressures. <i>Journal of Nanoscience and Nanotechnology</i> , 2003, 3, 545-548.	0.9	5
45	Synthesis of Copper Nanoparticles by Electrolysis of DNA Utilizing Copper as Sacrificial Anode. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 2105-2109.	0.9	4
46	Synthesis and Characterization of Different Metal Oxide Nanostructures by Simple Electrolysis Based Oxidation of Metals. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5515-5522.	0.9	4
47	Facile synthesis and magnetic behavior of 1D g-C ₃ N ₄ . <i>Journal of Solid State Chemistry</i> , 2020, 290, 121539.	1.4	4
48	Large scale synthesis of silver vanadate nanowires consolidated into bulk cylinder with enhanced antibacterial properties. <i>Materials Letters</i> , 2020, 278, 128403.	1.3	4
49	Synthesis of Nanostructured Silicon Carbide Films Through Spray Pyrolysis of Ball-Milled Silicon. <i>Chemical Vapor Deposition</i> , 2005, 11, 403-407.	1.4	3
50	Ethylene glycol mediated facile and controlled growth of ultralong hexagonal silver molybdate microrods. <i>Materials Letters</i> , 2018, 215, 129-133.	1.3	3
51	Applied Potential Dependent Growth of SnO ₂ Nanostructures by Anodic Oxidation of Tin. <i>Advanced Science Letters</i> , 2012, 16, 255-260.	0.2	3
52	Synthesis of Metal Vanadate Nanostructures. <i>Reviews in Advanced Sciences and Engineering</i> , 2012, 1, 319-341.	0.6	3
53	Anisotropic Band-Edge Absorption of Millimeter-Sized Zn(3-ptz) ₂ Single-Crystal Metal-Organic Frameworks. <i>ACS Omega</i> , 2022, 7, 24432-24437.	1.6	3
54	Effective parameter study for the facile and controlled growth of silver molybdate nano/micro rods. <i>Frontiers of Materials Science</i> , 2016, 10, 375-384.	1.1	2

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55	Structural Characterization, Optical Absorption and Electrical Conduction in Ordered Defect Compound Cu ₃ In ₅ Se ₉ of the Ternary Cu-In-Se Semiconductor System. Journal of Electronic Materials, 2020, 49, 419-428.	1.0	2
56	BIOLOGICALLY PROGRAMMED SILICON NANOPARTICLES ASSEMBLY. International Journal of Nanoscience, 2005, 04, 1039-1043.	0.4	1
57	Hexaaquazinc(II) dinitrate bis[5-(pyridinium-3-yl)tetrazol-1-ide]. Acta Crystallographica Section E: Crystallographic Communications, 2018, 74, 1231-1234.	0.2	1
58	Synthesis and Crystal Structure of the Ordered Vacancy Compound Cu ₃ In ₅ Se ₉ . Orbital, 2021, 13, .	0.1	0
59	Crystal structure and Hirshfeld surface analysis of tris(2,2'-bipyridine)nickel(II) bis(1,1,3,3-tetracyano-2-ethoxypropenide) dihydrate. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 867-871.	0.2	0