

Dinesh Pratap Singh

List of Publications by Citations

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57
papers

3,152
citations

25
h-index

56
g-index

62
ext. papers

3,645
ext. citations

5.3
avg, IF

5.67
L-index

#	Paper	IF	Citations
57	Mechanical Milling: a Top Down Approach for the Synthesis of Nanomaterials and Nanocomposites. <i>Nanoscience and Nanotechnology</i> , 2012 , 2, 22-48		331
56	Graphene oxide: strategies for synthesis, reduction and frontier applications. <i>RSC Advances</i> , 2016 , 6, 64993-65011	3.7	297
55	Synthesis of Different Cu(OH) ₂ and CuO (Nanowires, Rectangles, Seed-, Belt-, and Sheetlike) Nanostructures by Simple Wet Chemical Route. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3409-3418	3.8	196
54	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	33.6	186
53	Laser-assisted synthesis, reduction and micro-patterning of graphene: Recent progress and applications. <i>Coordination Chemistry Reviews</i> , 2017 , 342, 34-79	23.2	174
52	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	2.3	174
51	Graphene oxide: An efficient material and recent approach for biotechnological and biomedical applications. <i>Materials Science and Engineering C</i> , 2018 , 86, 173-197	8.3	163
50	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	10	156
49	Adaptive VN/Ag nanocomposite coatings with lubricious behavior from 25 to 1000°C. <i>Acta Materialia</i> , 2010 , 58, 5326-5331	8.4	147
48	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	16.2	139
47	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, 15042-51	9.5	133
46	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	3.8	121
45	Layered atomic structures of double oxides for low shear strength at high temperatures. <i>Scripta Materialia</i> , 2010 , 62, 735-738	5.6	106
44	Progress in microwave-assisted synthesis of quantum dots (graphene/carbon/semiconducting) for bioapplications: a review. <i>Materials Today Chemistry</i> , 2019 , 12, 282-314	6.2	85
43	Synthesis and Growth of ZnO Nanowires. <i>Science of Advanced Materials</i> , 2010 , 2, 245-272	2.3	83
42	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	4.6	74
41	Attachment of biomolecules (protein and DNA) to amino-functionalized carbon nanotubes. <i>New Carbon Materials</i> , 2009 , 24, 301-306	4.4	68

40	Synthesis of TiO ₂ and CuO Nanotubes and Nanowires. <i>Science of Advanced Materials</i> , 2010 , 2, 295-335	2.3	56
39	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	10.4	51
38	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	8.1	46
37	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	3.7	41
36	Lactose nano-probe optimized using response surface methodology. <i>Biosensors and Bioelectronics</i> , 2009 , 25, 784-90	11.8	41
35	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	8.1	41
34	Room temperature synthesis and high temperature frictional study of silver vanadate nanorods. <i>Nanotechnology</i> , 2010 , 21, 325601	3.4	35
33	Synthesis, characterization and application of semiconducting oxide (Cu ₂ O and ZnO) nanostructures. <i>Bulletin of Materials Science</i> , 2008 , 31, 319-325	1.7	34
32	Textured VN coatings with Ag ₃ VO ₄ solid lubricant reservoirs. <i>Surface and Coatings Technology</i> , 2011 , 206, 1932-1935	4.4	21
31	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	3.6	17
30	Highly zone-dependent synthesis of different carbon nanostructures using plasma-enhanced arc discharge technique. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	16
29	pH-Controlled Assembly of 3D and 2D Zinc-Based Metal-Organic Frameworks with Tetrazole Ligands. <i>ACS Omega</i> , 2018 , 3, 801-807	3.9	14
28	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	19.5	12
27	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	2.3	9
26	Electrical impedance spectroscopy characterization of n type Cu ₅ In ₉ Se ₁₆ semiconductor compound. <i>Physica B: Condensed Matter</i> , 2020 , 593, 412283	2.8	7
25	Enhanced antilipoplysaccharide (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	7.8	7
24	Synthesis and optical properties of different CuO (ellipsoid, ribbon and sheet like) nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5345-50	1.3	7
23	Synthesis, characterizations and applications of some nanomaterials (TiO ₂ and SiC nanostructured films, organized CNT structures, ZnO structures and CNT-blood platelet clusters) 2005 , 65, 581-592		6

22	Ascorbic acid based controlled growth of various Cu and Cu ₂ O nanostructures. <i>Materials Research Express</i> , 2019 , 6, 065033	1.7	5
21	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	2.3	5
20	Formation and size dependence of germanium nanoparticles at different helium pressures. <i>Journal of Nanoscience and Nanotechnology</i> , 2003 , 3, 545-8	1.3	5
19	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	3.6	5
18	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	3.9	4
17	Synthesis of copper nanoparticles by electrolysis of DNA utilizing copper as sacrificial anode. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 2105-9	1.3	4
16	Azide-Based High-Energy Metal-Organic Frameworks with Enhanced Thermal Stability. <i>ACS Omega</i> , 2019 , 4, 14398-14403	3.9	3
15	Ethylene glycol mediated facile and controlled growth of ultralong hexagonal silver molybdate microrods. <i>Materials Letters</i> , 2018 , 215, 129-133	3.3	3
14	Synthesis and characterization of different metal oxide nanostructures by simple electrolysis based oxidation of metals. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5515-22	1.3	3
13	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	6.8	3
12	Applied Potential Dependent Growth of SnO ₂ Nanostructures by Anodic Oxidation of Tin. <i>Advanced Science Letters</i> , 2012 , 16, 255-260	0.1	3
11	Synthesis of Metal Vanadate Nanostructures. <i>Reviews in Advanced Sciences and Engineering</i> , 2012 , 1, 319-341		3
10	Anisotropic Band-Edge Absorption of Millimeter-Size Zn(3-Ptz) ₂ Single Crystal Metal-Organic Frameworks		2
9	Facile synthesis and magnetic behavior of 1D g-C ₃ N ₄ . <i>Journal of Solid State Chemistry</i> , 2020 , 290, 121539,3	3.3	2
8	Large scale synthesis of silver vanadate nanowires consolidated into bulk cylinder with enhanced antibacterial properties. <i>Materials Letters</i> , 2020 , 278, 128403	3.3	2
7	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	2.5	1
6	BIOLOGICALLY PROGRAMMED SILICON NANOPARTICLES ASSEMBLY. <i>International Journal of Nanoscience</i> , 2005 , 04, 1039-1043	0.6	1
5	Synthesis of Nanostructured Silicon Carbide Films Through Spray Pyrolysis of Ball-Milled Silicon. <i>Chemical Vapor Deposition</i> , 2005 , 11, 403-407		1

4	Hexa-aqua-zinc(II) dinitrate bis-[5-(pyridinium-3-yl)tetra-zol-1-ide]. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018 , 74, 1231-1234	0.7	1
3	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. <i>Journal of Electronic Materials</i> , 2020 , 49, 419-428	1.9	1
2	Millimeter-Scale Zn(3-ptz) Metal-Organic Framework Single Crystals: Self-Assembly Mechanism and Growth Kinetics. <i>ACS Omega</i> , 2021 , 6, 17289-17298	3.9	1
1	Crystal structure and Hirshfeld surface analysis of tris-(2,2'bi-pyridine)-nickel(II) bis-(1,1,3,3-tetra-cyano-2-eth-oxy-propenide) dihydrate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2019 , 75, 867-871	0.7	