Vishal Singh

List of Publications by Year
in descending order

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40	586	759233 12	677142 22
papers	citations	h-index	g-index

40	40	40	565
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Analysis of mechanical, thermal, electrical and<scp>EMI</scp>shielding properties of graphite/carbon fiber reinforced polypropylene composites prepared via a twin screw extruder. Journal of Applied Polymer Science, 2022, 139, 51444.	2.6	23
2	Influence of pH on optical and electrochemical performance of BiPO4 electrode material for energy storage applications. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 137, 115020.	2.7	2
3	Excellent electromagnetic interference shielding performance of polypropylene/carbon fiber/multiwalled carbon nanotube nanocomposites. Polymer Composites, 2022, 43, 3708-3715.	4.6	17
4	High performance of facile microwave-assisted BiPO4 nanostructures as electrode material for energy storage applications. Materials Science in Semiconductor Processing, 2021, 122, 105472.	4.0	12
5	Study of structural and functional properties of fluorescent EDTA@CQDs synthesized from peanut shells via pyrolysis technique. Materials Today: Proceedings, 2021, 44, 192-198.	1.8	4
6	Electromagnetic interference shielding response of multiwall carbon nanotube/polypropylene nanocomposites prepared via melt processing technique. Polymer Composites, 2021, 42, 1148-1154.	4.6	22
7	Study of Structural and Functional Properties of Graphene / Polyaniline Nanocomposites Synthesized via In Situ Polymerization. Lecture Notes in Mechanical Engineering, 2021, , 1-10.	0.4	0
8	Effect of hydrothermal temperature on structural, optical and electrochemical properties of Î±-MnO2 nanostructures for supercapacitor application. Chemical Physics Letters, 2021, 777, 138742.	2.6	20
9	Enhanced visible-light photocatalytic activity of samarium-doped zinc oxide nanostructures. Journal of Rare Earths, 2020, 38, 29-38.	4.8	42
10	Rare earth substituted Bi0.84RE0.16FeO3 (RE = La, Gd) - an efficient multiferroic photo-catalyst under visible light irradiation. International Journal of Hydrogen Energy, 2020, 45, 16944-16954.	7.1	11
11	Synthesis of Au@PANI nanocomposites by complexation method and their application as label-free chemo probe for detection of mercury ions. Bulletin of Materials Science, 2020, 43, 1.	1.7	4
12	Development of lightweight polypropylene/carbon fiber composites for its application in shielding of electromagnetic interference in X-band. Journal of Materials Science: Materials in Electronics, 2020, 31, 14088-14100.	2.2	13
13	Impact of phase segregation on optical and electrochemical property of BiPO4 nanostructures for energy storage applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 16867-16881.	2.2	10
14	Effect of filler loading on the shielding of electromagnetic interference of reduced graphene oxide reinforced polypropylene nanocomposites prepared via a twin-screw extruder. Journal of Materials Science: Materials in Electronics, 2020, 31, 22162-22170.	2.2	10
15	Melt-Processed Graphite-Polypropylene Composites for EMI Shielding Applications. Journal of Electronic Materials, 2020, 49, 5293-5301.	2.2	11
16	La3+ substituted BiFeO3-a proficient nano ferrite photo-catalyst under the application of visible light. Chemical Physics Letters, 2020, 754, 137715.	2.6	14
17	Rapid visible light-driven photocatalytic degradation using Ce-doped ZnO nanocatalysts. Vacuum, 2020, 178, 109364.	3.5	36
18	Optical and electrochemical performance of hydrothermal synthesis of BiPO4 nanostructures for supercapacitor applications. Materials Today: Proceedings, 2020, 32, 498-503.	1.8	6

#	Article	IF	Citations
19	Investigation of the structural and electrical behavior of LiFePO4 as cathode material for energy storage application. Materials Today: Proceedings, 2020, 32, 483-486.	1.8	2
20	Electrochemical and optical study of BiPO4 nanostructures for energy storage applications. Materials Today: Proceedings, 2020, 28, 302-307.	1.8	5
21	Modeling of electrical behavior of LiFePO4 cathode materials for lithium ion batteries. Materials Today: Proceedings, 2020, 28, 337-341.	1.8	5
22	Synthesis of Ag@PANI nanocomposites by complexation method and their application as label-free chemo-probe for detection of mercury ions. Journal of Polymer Engineering, 2020, 40, 657-665.	1.4	8
23	Wear behavior of differently cryogenically treated AISI H13 steel against cold work steel. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2019, 233, 292-305.	2.5	4
24	Improvement of tribological behavior of H-13 steel by optimizing the cryogenic-treatment process using evolutionary algorithms. Tribology International, 2019, 140, 105895.	5.9	15
25	Response surface methodology based analysis of the impact of nanoclay addition on the wear resistance of polypropylene. EPJ Applied Physics, 2019, 86, 10401.	0.7	29
26	Determination of crystallite size, number of graphene layers and defect density of graphene oxide (GO) and reduced graphene oxide (RGO). AIP Conference Proceedings, 2019, , .	0.4	37
27	Effect of pH values on structural, optical, electrical and electrochemical properties of spinel LiMn2O4 cathode materials. Journal of Science: Advanced Materials and Devices, 2019, 4, 245-251.	3.1	7
28	Mechanical Properties and Microstructure Evaluation of Differently Cryogenically Treated AISI-H11 Steel. International Journal of Steel Structures, 2019, 19, 1381-1392.	1.3	12
29	Investigations of spinel LiZnxMn2â˜'xO4 (xâ€¯â‰¤â€¯0.03) cathode materials for a lithium ion battery application. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 238-239, 93-99.	3.5	10
30	Optimization of friction and wear characteristics of varied cryogenically treated hot die steel grade AISI-H13 under dry condition. Friction, 2017, 5, 66-86.	6.4	9
31	Geochemical appraisal of mine discharge and tailing at Malanjkhand copper mine, India. Journal of the Geological Society of India, 2017, 90, 209-216.	1.1	5
32	Evolution of mechanical properties and microstructure of differently cryogenically treated hot die steel AISIâ€“H13. International Journal of Materials Research, 2017, 108, 173-184.	0.3	4
33	Characterisation of microstructure and mechanical properties of differently cryogenically treated hot die steel AISI-H11. International Journal of Materials Engineering Innovation, 2016, 7, 285.	0.5	3
34	Optical and structural properties of Fe-doped SnO2 nanoparticles prepared by co-precipitation method. AIP Conference Proceedings, 2016, , .	0.4	2
35	Effect of cryogenic treatment on the tribological behaviour of H11 hot die steel dry sliding against D3 steel. Tribology - Materials, Surfaces and Interfaces, 2016, 10, 185-195.	1.4	9
36	Study of structural and optical properties of Fe doped CuO nanoparticles. AIP Conference Proceedings, 2016, , .	0.4	2

#	Article	IF	Citations
37	Preparation and atomic force microscopy of CTAB stabilized polythiophene nanoparticles thin film. , 2016, , .		1
38	Effect of Cryogenic Treatment on Hardness, Microstructure and Wear Behavior of Hot Die Steel Grade AISI-H13. Lecture Notes in Mechanical Engineering, 2014, , 159-166.	0.4	5
39	Dielectric properties of aluminum-epoxy composites. Journal of Applied Polymer Science, 2003, 90, 3602-3608.	2.6	120
40	Electrical behaviour of attritor processed Al/PMMA composites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1996, 41, 310-313.	3.5	35