

Vishal Singh

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

586
citations

759233

12
h-index

677142

22
g-index

40
all docs

40
docs citations

40
times ranked

565
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric properties of aluminum-epoxy composites. Journal of Applied Polymer Science, 2003, 90, 3602-3608.	2.6	120
2	Enhanced visible-light photocatalytic activity of samarium-doped zinc oxide nanostructures. Journal of Rare Earths, 2020, 38, 29-38.	4.8	42
3	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
4	Rapid visible light-driven photocatalytic degradation using Ce-doped ZnO nanocatalysts. Vacuum, 2020, 178, 109364.	3.5	36
5	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
6	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
7	Analysis of mechanical, thermal, electrical and EMI 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
8	Electromagnetic interference shielding response of multiwall carbon nanotube/polypropylene nanocomposites prepared via melt processing technique. Polymer Composites, 2021, 42, 1148-1154.	4.6	22
9	Effect of hydrothermal temperature on structural, optical and electrochemical properties of $\text{Li}^{\pm}\text{-MnO}_2$ nanostructures for supercapacitor application. Chemical Physics Letters, 2021, 777, 138742.	2.6	20
10	Excellent electromagnetic interference shielding performance of polypropylene/carbon fiber/multiwalled carbon nanotube nanocomposites. Polymer Composites, 2022, 43, 3708-3715.	4.6	17
11	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
12	La_3+ substituted BiFeO_3 -a proficient nano ferrite photo-catalyst under the application of visible light. Chemical Physics Letters, 2020, 754, 137715.	2.6	14
13	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
14	Mechanical Properties and Microstructure Evaluation of Differently Cryogenically Treated AISI-H11 Steel. International Journal of Steel Structures, 2019, 19, 1381-1392.	1.3	12
15	High performance of facile microwave-assisted BiPO_4 nanostructures as electrode material for energy storage applications. Materials Science in Semiconductor Processing, 2021, 122, 105472.	4.0	12
16	Rare earth substituted $\text{Bi}_{0.84}\text{RE}_{0.16}\text{FeO}_3$ (RE = La, Gd) - an efficient multiferroic photo-catalyst under visible light irradiation. International Journal of Hydrogen Energy, 2020, 45, 16944-16954.	7.1	11
17	Melt-Processed Graphite-Polypropylene Composites for EMI Shielding Applications. Journal of Electronic Materials, 2020, 49, 5293-5301.	2.2	11
18	Investigations of spinel $\text{LiZn}_x\text{Mn}_{2-x}\text{O}_4$ ($x \in [0, 0.03]$) 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

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19	Impact of phase segregation on optical and electrochemical property of BiPO ₄ nanostructures for energy storage applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 16867-16881.	2.2	10
20	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
21	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
22	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
23	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
24	Effect of pH values on structural, optical, electrical and electrochemical properties of spinel LiMn ₂ O ₄ cathode materials. Journal of Science: Advanced Materials and Devices, 2019, 4, 245-251.	3.1	7
25	Optical and electrochemical performance of hydrothermal synthesis of BiPO ₄ nanostructures for supercapacitor applications. Materials Today: Proceedings, 2020, 32, 498-503.	1.8	6
26	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
27	Electrochemical and optical study of BiPO ₄ nanostructures for energy storage applications. Materials Today: Proceedings, 2020, 28, 302-307.	1.8	5
28	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
29	Modeling of electrical behavior of LiFePO ₄ cathode materials for lithium ion batteries. Materials Today: Proceedings, 2020, 28, 337-341.	1.8	5
30	Evolution of mechanical properties and microstructure of differently cryogenically treated hot die steel AISI-H13. International Journal of Materials Research, 2017, 108, 173-184.	0.3	4
31	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
32	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
33	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
34	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
35	Optical and structural properties of Fe-doped SnO ₂ nanoparticles prepared by co-precipitation method. AIP Conference Proceedings, 2016, , .	0.4	2
36	Study of structural and optical properties of Fe doped CuO nanoparticles. AIP Conference Proceedings, 2016, , .	0.4	2

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37	Investigation of the structural and electrical behavior of LiFePO ₄ as cathode material for energy storage application. <i>Materials Today: Proceedings</i> , 2020, 32, 483-486.	1.8	2
38	Influence of pH on optical and electrochemical performance of BiPO ₄ electrode material for energy storage applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 137, 115020.	2.7	2
39	Preparation and atomic force microscopy of CTAB stabilized polythiophene nanoparticles thin film. , 2016, , .		1
40	Study of Structural and Functional Properties of Graphene / Polyaniline Nanocomposites Synthesized via In Situ Polymerization. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 1-10.	0.4	0