Rajesh Kumar

List of Publications by Year
in descending order

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		567144	526166
37	3,637	15	27
papers	citations	h-index	g-index

38	38	38	6481
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface modification of inorganic nanoparticles for development of organicâ€“inorganic nanocompositesâ€”A review. Progress in Polymer Science, 2013, 38, 1232-1261.	11.8	1,760
2	Formation of oxygen vacancies and Ti3+ state in TiO2 thin film and enhanced optical properties by air plasma treatment. Scientific Reports, 2016, 6, 32355.	1.6	929
3	Visible and UV photo-detection in ZnO nanostructured thin films via simple tuning of solution method. Scientific Reports, 2017, 7, 15032.	1.6	265
4	Magnetic polymer nanocomposites for environmental and biomedical applications. Colloid and Polymer Science, 2014, 292, 2025-2052.	1.0	228
5	Superhydrophilic TiO2 thin film by nanometer scale surface roughness and dangling bonds. Applied Surface Science, 2016, 364, 51-60.	3.1	87
6	Synthesis of phase pure iron oxide polymorphs thin films and their enhanced magnetic properties. Journal of Materials Science: Materials in Electronics, 2014, 25, 4553-4561.	1.1	55
7	Fast digital image encryption based on compressive sensing using structurally random matrices and Arnold transform technique. Optik, 2016, 127, 2282-2286.	1.4	34
8	Antioxidant, antimicrobial, and photocatalytic activity of green synthesized ZnO-NPs from Myrica esculenta fruits extract. Inorganic Chemistry Communication, 2022, 141, 109518.	1.8	32
9	Structures, energetics, vibrational spectra of NH4+(H2O)n=4,6 clusters: Ab initio calculations and first principles molecular dynamics simulations. Journal of Chemical Physics, 2008, 128, 244304.	1.2	29
10	Magnetite nanoparticles coated sand for arsenic removal from drinking water. Environmental Earth Sciences, 2016, 75, 1.	1.3	27
11	Controlling band gap and refractive index in dopant-free Î±-Fe2O3 films. Electronic Materials Letters, 2015, 11, 13-23.	1.0	21
12	Low-cost magnetic adsorbent for As(III) removal from water: adsorption kinetics and isotherms. Environmental Monitoring and Assessment, 2016, 188, 60.	1.3	19
13	A novel method for controlled synthesis of nanosized hematite (Î±-Fe2O3) thin film on liquidâ€“vapor interface. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	18
14	Implementing compressive fractional Fourier transformation with iterative kernel steering regression in double random phase encoding. Optik, 2014, 125, 5414-5417.	1.4	16
15	Preparation and characterization of Î±-Fe2O3 polyhedral nanocrystals via annealing technique. Materials Letters, 2009, 63, 1047-1050.	1.3	15
16	Structural, optical and magnetic characterization of Ni2+ ions doped chromium oxide (Cr2O3) nanoparticles. Solid State Sciences, 2021, 115, 106581.	1.5	15
17	XRD analysis of undoped and Fe doped TiO2 nanoparticles by Williamson Hall method. AIP Conference Proceedings, 2015, , .	0.3	14
18	Facile Synthesis and Electrical Conductivity of Carbon Nanotube Reinforced Nanosilver Composite. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2012, 67, 679-684.	0.7	12

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19	Effect of synthesis medium on aggregation tendencies of ZnO nanosheets and their superior photocatalytic performance. Journal of Materials Science, 2015, 50, 819-832.	1.7	12
20	Magnetic field and temperature-dependent studies of structural and magnetic properties of NiFe2O4 films. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	12
21	Effect of DC glow discharge treatment on the surface energy and surface resistivity of thin film of polypropylene. Journal of Applied Polymer Science, 2007, 104, 767-772.	1.3	11
22	Magnetic field induced one-dimensional nano/micro structures growth on the surface of iron oxide thin film. Thin Solid Films, 2015, 592, 155-161.	0.8	9
23	Tuning of structural, magnetic and optical properties of NiFe2O4films by implementing high magnetic fields. Thin Solid Films, 2020, 712, 138321.	0.8	6
24	Controlling metal nanotoppings on the tip of silicide nanostructures. Nanotechnology, 2009, 20, 245605.	1.3	4
25	Enhancing the numerical aperture of lenses using ZnO nanostructure-based turbid media. Journal of Optics (United Kingdom), 2013, 15, 125714.	1.0	3
26	Photoinduced charge separation at Zn-Pd/TiO₂ hybrids interface for enhanced electrochemical and photocatalytic activity. Journal Physics D: Applied Physics, 0, , .	1.3	2
27	Carbon nanotube growth at the tip of SiO2 nanocone. Materials Science and Engineering C, 2009, 29, 2384-2387.	3.8	1
28	Effect of Fe doping concentration on photocatalytic activity of ZnO nanosheets under natural sunlight. AIP Conference Proceedings, 2015, , .	0.3	1
29	Synthesis of Magnetic Thin Films on Glass Substrates Using NH₃ Vapors. Materials Science Forum, 0, 710, 762-767.	0.3	0
30	Structural and optical properties of Î±-Fe[sub 2]O[sub 3] film prepared by chemical method. , 2013, , .		0
31	Magnetite nanoparticles coated glass wool for As(V) removal from drinking water. AIP Conference Proceedings, 2015, , .	0.3	0
32	Formation of iron-oxide nanorods on the surface of silicon by using annealing technique. Journal of the Korean Physical Society, 2016, 69, 1771-1775.	0.3	0
33	Influence of applied magnetic field and heating on properties of cobalt ferrite films. Journal of Materials Science: Materials in Electronics, 2021, 32, 5594-5601.	1.1	0
34	Thickness Dependent Morphological, Structural, and Magnetic Studies of Nickel Ferrite Films. Lecture Notes in Mechanical Engineering, 2021, , 157-164.	0.3	0
35	Effect of reaction time on the morphological, compositional, and optical properties of nickel ferrite films. AIP Conference Proceedings, 2021, , .	0.3	0
36	Evolution of a facile and novel general strategy for fabricating single and mixed 3d-block transition metal hydroxide/oxide films for innumerable applications. Materials Chemistry and Physics, 2021, 266, 124534.	2.0	0

#	Article	IF	Citations
37	Magnetic Thin Film Formation On The Surface Of Solution Induced Via island Growth Of Nanoparticles. Advanced Materials Letters, 2013, 4, 74-77.	0.3	0