

# Swapankumar Ghosh

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,314  
citations

331670

21  
h-index

345221

36  
g-index

42  
all docs

42  
docs citations

42  
times ranked

2232  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic, X-ray and Mössbauer studies on magnetite/maghemite core-shell nanostructures fabricated through an aqueous route. RSC Advances, 2014, 4, 64919-64929.	3.6	102
2	Preparation and characterization of guar gum nanoparticles. International Journal of Biological Macromolecules, 2010, 46, 267-269.	7.5	83
3	An aqueous sol-gel synthesis of chromium(III) doped mesoporous titanium dioxide for visible light photocatalysis. Materials Research Bulletin, 2011, 46, 914-921.	5.2	81
4	Sol-gel route to synthesize titania-silica nano precursors for photoactive particulates and coatings. Journal of Sol-Gel Science and Technology, 2010, 54, 203-211.	2.4	73
5	Shape-Selective Oriented Cerium Oxide Nanocrystals Permit Assessment of the Effect of the Exposed Facets on Catalytic Activity and Oxygen Storage Capacity. ACS Applied Materials & Interfaces, 2015, 7, 8545-8555.	8.0	72
6	Methotrexate intercalated ZnAl-layered double hydroxide. Journal of Solid State Chemistry, 2011, 184, 2439-2445.	2.9	66
7	Photocatalytic activity enhancement in doped titanium dioxide by crystal defects. Dalton Transactions, 2012, 41, 4824.	3.3	62
8	Mg-Al layered double hydroxide-methotrexate nanohybrid drug delivery system: Evaluation of efficacy. Materials Science and Engineering C, 2013, 33, 2168-2174.	7.3	62
9	A Novel Aqueous Route To Fabricate Ultrasmall Monodisperse Lipophilic Cerium Oxide Nanoparticles. Industrial & Engineering Chemistry Research, 2012, 51, 318-326.	3.7	61
10	Magnetic nanoparticle assemblies on denatured DNA show unusual magnetic relaxivity and potential applications for MRI. Chemical Communications, 2004, , 2560.	4.1	60
11	Nonaqueous Magnetic Nanoparticle Suspensions with Controlled Particle Size and Nuclear Magnetic Resonance Properties. Langmuir, 2008, 24, 14159-14165.	3.5	51
12	Synthesis and characterization of cerium oxide based nanofluids: An efficient coolant in heat transport applications. Chemical Engineering Journal, 2014, 255, 282-289.	12.7	50
13	A facile synthetic strategy for Mg-Al layered double hydroxide material as nanocarrier for methotrexate. Ceramics International, 2012, 38, 941-949.	4.8	49
14	pH dependent chemical stability and release of methotrexate from a novel nanoceramic carrier. RSC Advances, 2015, 5, 39482-39494.	3.6	38
15	Controlled Growth of Nanoparticle Clusters through Competitive Stabilizer Desorption. Angewandte Chemie - International Edition, 2009, 48, 175-178.	13.8	36
16	One-pot synthesis of ultra-small cerium oxide nanodots exhibiting multi-colored fluorescence. Journal of Colloid and Interface Science, 2013, 389, 16-22.	9.4	35
17	Growth of monodisperse nanocrystals of cerium oxide during synthesis and annealing. Journal of Nanoparticle Research, 2010, 12, 1905-1911.	1.9	29
18	Colloidal properties of water dispersible magnetite nanoparticles by photon correlation spectroscopy. RSC Advances, 2016, 6, 14393-14402.	3.6	29

#	ARTICLE	IF	CITATIONS
19	Tailoring the surface properties of cerium oxide nanoabrasives through morphology control for glass CMP. RSC Advances, 2015, 5, 84056-84065.	3.6	25
20	Layered double hydroxide using hydrothermal treatment: morphology evolution, intercalation and release kinetics of diclofenac sodium. Frontiers of Materials Science, 2017, 11, 395-408.	2.2	22
21	Hydrophobic, Photoactive Titania-Alumina Nanocrystallites and Coatings by an Aqueous Sol-Gel Process. European Journal of Inorganic Chemistry, 2012, 2012, 226-233.	2.0	21
22	pH-dependent facile synthesis of CaAl layered double hydroxides and its effect on the growth inhibition of cancer cells. Journal of the American Ceramic Society, 2018, 101, 3924-3935.	3.8	21
23	Calcination and associated structural modifications in boehmite and their influence on high temperature densification of alumina. Ceramics International, 2011, 37, 3329-3334.	4.8	19
24	Determination of trace level carbonate ion in Mg-Al layered double hydroxide: Its significance on the anion exchange behaviour. Journal of Industrial and Engineering Chemistry, 2012, 18, 2211-2216.	5.8	19
25	Facile synthetic strategy of oleophilic zirconia nanoparticles allows preparation of highly stable thermo-conductive coolant. RSC Advances, 2014, 4, 28020-28028.	3.6	16
26	Size-tunable hydrophilic cerium oxide nanoparticles as a "turn-on" fluorescence sensor for the rapid detection of ultralow concentrations of vitamin C. RSC Advances, 2016, 6, 53550-53559.	3.6	16
27	Enhanced visible light activity of nano-titanium dioxide doped with multiple ions: Effect of crystal defects. Journal of Solid State Chemistry, 2012, 196, 465-470.	2.9	15
28	Titania-lanthanum phosphate photoactive and hydrophobic new generation catalyst. Journal of Solid State Chemistry, 2011, 184, 1867-1874.	2.9	13
29	A novel approach for enhanced visible light activity in doped nanosize titanium dioxide through the excitons trapping. Journal of Solid State Chemistry, 2012, 186, 149-157.	2.9	12
30	NMR studies into colloidal stability and magnetic order in fatty acid stabilised aqueous magnetic fluids. Physical Chemistry Chemical Physics, 2010, 12, 14009.	2.8	11
31	Nanoscale contact resistance of VO <sub>5</sub> xerogel films developed by nanostructured powder. Journal Physics D: Applied Physics, 2016, 49, 085303.	2.8	11
32	Concentration quenching in cerium oxide dispersions via a Förster resonance energy transfer mechanism facilitates the identification of fatty acids. RSC Advances, 2015, 5, 23965-23972.	3.6	9
33	Fabrication of magnetite nanocrystals in alcohol/water mixed solvents: catalytic and colloid property evaluation. RSC Advances, 2016, 6, 60845-60855.	3.6	9
34	Nanocrystalline Ceria through Homogeneous Precipitation in Alcohol-Water Mixed Solvent. Transactions of the Indian Ceramic Society, 2009, 68, 185-188.	1.0	8
35	Drug Delivery Using Nanosized Layered Double Hydroxide, an Anionic Clay. Key Engineering Materials, 0, 571, 133-167.	0.4	8
36	Methotrexate Intercalated CaAl Layered Double Hydroxide Nanohybrid for Drug Delivery. Advanced Science, Engineering and Medicine, 2016, 8, 450-459.	0.3	7

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37	Ultra-thin cerium oxide nanostructures through a facile aqueous synthetic strategy. <i>Ceramics International</i> , 2012, 38, 3023-3028.	4.8	6
38	Morphological evolution and growth of cerium oxide nanostructures by virtue of organic ligands as well as monomer concentration. <i>CrystEngComm</i> , 2015, 17, 7094-7106.	2.6	4
39	Growth of Hierarchical Hexagonal Layered Double Hydroxide Crystals to Large Elongated Spindle Shaped Particles. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 10060-10066.	0.9	2
40	Clustering Behavior in Aqueous Slurry of Magnetite Nanoparticles at Different Temperatures by Photon Scattering. <i>Transactions of the Indian Ceramic Society</i> , 2017, 76, 183-188.	1.0	0