

# Debasis Sen

## List of Publications by Year in descending order

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235  
papers

3,621  
citations

136950

32  
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223800

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237  
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237  
docs citations

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times ranked

3578  
citing authors

#	ARTICLE	IF	CITATIONS
1	Growing Anisotropic Silver Nanostructures from Copper-Coated Fibrous Silica and Its Application as Plasmonic Photocatalyst. <i>Plasmonics</i> , 2022, 17, 21-30.	3.4	1
2	Anomalous magnetic behaviour at nano-scale of Mn <sup>2+</sup> -substituted magnesio-ferrite synthesized by auto-combustion technique. <i>Indian Journal of Physics</i> , 2022, 96, 2323-2335.	1.8	1
3	A Combinatorial Approach to Reliable Quantitative Analysis of Small Nano-Sized Precipitates: A Case Study with $\text{Fe}^{2+}$ Precipitates in Fe-20 at% Cr Alloy. <i>Microscopy and Microanalysis</i> , 2022, 28, 1370-1384.	0.4	2
4	Study on formation of Pd nanocatalyst in self-reducing silica nanotube produced by using sacrificial Fe <sub>3</sub> O <sub>4</sub> template and its efficacy in Cr(VI) reduction. <i>Materials Chemistry and Physics</i> , 2022, 278, 125580.	4.0	1
5	Nano-scale physicochemical attributes and their impact on pore heterogeneity in shale. <i>Fuel</i> , 2022, 314, 123070.	6.4	24
6	Time-resolved SAXS investigation on structural evolution of plant fibrillar-network during dehydration. <i>Surfaces and Interfaces</i> , 2022, 29, 101737.	3.0	1
7	Silver, Copper, Magnesium and Zinc Contained Electroactive Mesoporous Bioactive S53P4 Glass-Ceramics Nanoparticle for Bone Regeneration: Bioactivity, Biocompatibility and Antibacterial Activity. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 2309-2321.	3.7	3
8	Jamming of Nano-Ellipsoids in a Microsphere: A Quantitative Analysis of Packing Fraction by Small-Angle Scattering. <i>Langmuir</i> , 2022, 38, 3832-3843.	3.5	3
9	Pattern of an Evaporated Colloidal Droplet on a Porous Membrane Dictated by Competitive Processes of Flow and Absorption. <i>Langmuir</i> , 2022, 38, 7121-7128.	3.5	3
10	Polyethylenimine assisted non-monotonic jamming of colloids during evaporation induced assembly and its implication on CO <sub>2</sub> sorption characteristics. <i>Soft Matter</i> , 2022, 18, 5114-5125.	2.7	4
11	Interlocking dendritic fibrous nanosilica into microgranules by polyethylenimine assisted assembly: <i>in situ</i> neutron diffraction and CO <sub>2</sub> capture studies. <i>Materials Advances</i> , 2022, 3, 6506-6517.	5.4	2
12	Structural characterization of spray-dried microgranules by spin-echo small-angle neutron scattering. <i>Powder Technology</i> , 2021, 378, 680-684.	4.2	5
13	Mesoporous electroactive silver doped calcium borosilicates: Structural, antibacterial and myogenic potential relationship of improved bio-ceramics. <i>Ceramics International</i> , 2021, 47, 3586-3596.	4.8	14
14	Tuning the thermal cyclic stability of martensitic transformation in Ni <sub>50.3</sub> Ti <sub>29.7</sub> Hf <sub>20</sub> high temperature shape memory alloy. <i>Materials Research Bulletin</i> , 2021, 133, 111056.	5.2	4
15	Probing Kinetics and Mechanism of Formation of Mixed Metallic Nanoparticles in a Polymer Membrane by Galvanic Replacement between Two Immiscible Metals: Case Study of Nickel/Silver Nanoparticle Synthesis. <i>Langmuir</i> , 2021, 37, 1637-1650.	3.5	4
16	Higher structure in the unstable Adams spectral sequence. <i>Homology, Homotopy and Applications</i> , 2021, 23, 69-94.	0.4	2
17	Mechanochemically synthesized mesoporous alumina: a smart new-generation sorbent for preparation of chromatographic 188W/188Re generator. <i>SN Applied Sciences</i> , 2021, 3, 1.	2.9	0
18	Role of free volumes and segmental dynamics on ion conductivity of PEO/LiTFSI solid polymer electrolytes filled with SiO <sub>2</sub> nanoparticles: a positron annihilation and broadband dielectric spectroscopy study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 8585-8597.	2.8	19

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19	Quantitative evaluation of spinodal decomposition in thermally aged binary Fe-35 at.% Cr alloys by correlative atom probe tomography and small angle neutron scattering analyses. <i>Materialia</i> , 2021, 15, 101014.	2.7	6
20	Origin of the Hierarchical Structure of Dendritic Fibrous Nanosilica: A Small-Angle X-ray Scattering Perspective. <i>Langmuir</i> , 2021, 37, 6423-6434.	3.5	17
21	Enhanced blue photoluminescence of cobalt-reduced graphene oxide hybrid material and observation of rare plasmonic response by tailoring morphology. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	2
22	Confinement driven anomalous freezing in nano porous spray dried microspheres. <i>Nanotechnology</i> , 2021, 32, 385707.	2.6	3
23	Estimation and fingerprinting of the size distribution of non-interacting spherical particles from small-angle scattering data. <i>Journal of Applied Crystallography</i> , 2021, 54, 1298-1305.	4.5	0
24	Unravelling the structural hierarchy in microemulsion droplet templated dendritic fibrous nano silica. <i>Microporous and Mesoporous Materials</i> , 2021, 323, 111234.	4.4	4
25	Influence of molecular interactions on structure, controlled release and cytotoxicity of curcumin encapsulated chitosan - Silica nanostructured microspheres. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 208, 112067.	5.0	12
26	Polymer-mediated interaction between nanoparticles during hydration and dehydration: a small-angle X-ray scattering study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 14818-14829.	2.8	1
27	Use of a Modified SIRD Model to Analyze COVID-19 Data. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 4251-4260.	3.7	31
28	Ultra-high strength steel made from AISI 304L using a novel thermo-mechanical processing technique. <i>Acta Materialia</i> , 2021, 221, 117379.	7.9	5
29	Mechanochemically synthesized mesoporous alumina: An advanced sorbent for post-processing concentration of 131I for cancer therapy. <i>Journal of Chromatography A</i> , 2020, 1612, 460614.	3.7	2
30	Experimental evaluation of orientation and temperature dependent material stress-strain curves of Zr <sub>2.5</sub> Nb Indian pressure tube material and development of a suitable anisotropic material model. <i>Journal of Nuclear Materials</i> , 2020, 530, 151970.	2.7	4
31	Magnetic ordering of the martensite phase in Ni-Co-Mn-Sn-based ferromagnetic shape memory alloys. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 115801.	1.8	11
32	A novel approach to identify accessible and inaccessible pores in gas shales using combined low-pressure sorption and SAXS/SANS analysis. <i>International Journal of Coal Geology</i> , 2020, 228, 103556.	5.0	49
33	Enhancement in $\beta$ -galactosidase activity of <i>Streptococcus lactis</i> cells by entrapping in microcapsules comprising of correlated silica nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 195, 111245.	5.0	9
34	Existence of local hexagonal packing of nanoparticles even under rapid random evaporative jamming. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
35	Arrest of growth of Ag nanoparticles in polymer matrix: A small-angle x-ray scattering study. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
36	Eco-Friendly Synthesis, Crystal Chemistry, and Magnetic Properties of Manganese-Substituted CoFe <sub>2</sub> O <sub>4</sub> Nanoparticles. <i>ACS Omega</i> , 2020, 5, 19315-19330.	3.5	54

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37	First-principles calculations of the electronic structure and magnetism of nanostructured $\text{Co}_4\text{Fe}$ microgranules and nanoparticles. <i>Physical Review B</i> , 2020, 102, .		
38	Note on Toda brackets. <i>Journal of Homotopy and Related Structures</i> , 2020, 15, 495-510.	0.7	4
39	Dynamic spin freezing and magnetic memory effect in ensembles of interacting anisotropic magnetic nanoparticles. <i>Physical Review B</i> , 2020, 102, .	3.2	11
40	Revisiting galvanic replacement between silver nanoparticles and mercury(II) ions in a cellulose membrane intended for optical assay application: Some new insights into silver-mercury interaction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 602, 125140.	4.7	6
41	A green approach for the preparation of a surfactant embedded sulfonated carbon catalyst towards glycerol acetalization reactions. <i>Catalysis Science and Technology</i> , 2020, 10, 4827-4844.	4.1	37
42	Innovative design and fabrication of generation IV nuclear fuel embedded with carbon nanotube. <i>Ceramics International</i> , 2020, 46, 14591-14596.	4.8	3
43	Preparation and application of silica nanoparticles-Ocimum basilicum seeds bio-hybrid for the efficient immobilization of invertase enzyme. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110796.	5.0	14
44	Effect of Hf solute addition on the phase transformation behavior and hardness of a Ni-rich NiTi alloy. <i>Materials Chemistry and Physics</i> , 2020, 247, 122890.	4.0	15
45	An upper bound for higher topological complexity and higher strongly equivariant complexity. <i>Topology and Its Applications</i> , 2020, 277, 107172.	0.4	0
46	Nanodiamonds as a state-of-the-art material for enhancing the gamma radiation resistance properties of polymeric membranes. <i>Nanoscale Advances</i> , 2020, 2, 1214-1227.	4.6	9
47	Morphological Tuning of Nanostructured Hydroxyapatite (HAp) Porous Microgranules by Evaporation-Induced Assembly. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 1631-1642.	0.9	0
48	Non-suitability of high-energy (MeV) irradiation for property enhancement of structurally stable poly(ethylene oxide) polyvinylidene fluoride blend bromide composite electrolyte membrane. <i>Ionics</i> , 2019, 25, 2159-2170.	2.4	9
49	Evaporation-induced structural evolution of the lamellar mesophase: a time-resolved small-angle X-ray scattering study. <i>Journal of Applied Crystallography</i> , 2019, 52, 1169-1175.	4.5	19
50	Dissolution of amorphous $\text{SiO}_2$ nanoparticles at high alkaline pH: Real time SAXS investigation. <i>AIP Conference Proceedings</i> , 2019, . .	0.4	1
51	Concentration gradient of Bi-colloidal dispersion during drying in fibrous medium. <i>AIP Conference Proceedings</i> , 2019, . .	0.4	0
52	Small-angle x-ray scattering investigation of poly(methyl methacrylate)-alumina nanocomposite. <i>AIP Conference Proceedings</i> , 2019, . .	0.4	0
53	Evaluating the mechanism of nucleation and growth of silver nanoparticles in a polymer membrane under continuous precursor supply: tuning of multiple to single nucleation pathway. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4193-4199.	2.8	22
54	Solid state synthesis of mesoporous alumina: A viable strategy for preparation of an advanced nanosorbent for $^{99}\text{Mo}/^{99\text{m}}\text{Tc}$ generator technology. <i>Microporous and Mesoporous Materials</i> , 2019, 287, 271-279.	4.4	17

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55	Characterizing Microvoids in Regenerated Cellulose Fibers Obtained from Viscose and Lyocell Processes. <i>Macromolecules</i> , 2019, 52, 3987-3994.	4.8	28
56	Confinement induced formation of silver nanoparticles in self-assembled micro-granules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 577, 185-193.	4.7	6
57	Polysulfone-Ceria Mixed-Matrix Membrane with Enhanced Radiation Resistance Behavior. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1854-1865.	4.4	19
58	Interpreting Pore Dimensions in Gas Shales Using a Combination of SEM Imaging, Small-Angle Neutron Scattering, and Low-Pressure Gas Adsorption. <i>Energy &amp; Fuels</i> , 2019, 33, 4835-4848.	5.1	67
59	Spray drying of colloidal dispersions containing ellipsoids. <i>Journal of Colloid and Interface Science</i> , 2019, 551, 242-250.	9.4	20
60	Revisiting Temporal Evolution of Cu-Rich Precipitates in Fe-Cu Alloy: Correlative Small Angle Neutron Scattering and Atom-Probe Tomography Studies. <i>Microscopy and Microanalysis</i> , 2019, 25, 840-848.	0.4	11
61	Hydrotrope-Driven Self-Assembly in CTAB/Hexanol/Water/Heptane Reverse Micellar System. <i>Langmuir</i> , 2019, 35, 6683-6692.	3.5	5
62	Energetics of ice nucleation in mesoporous titania using positron annihilation spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6033-6041.	2.8	2
63	Microenvironment of mesopores of MCM-41 supported CuO catalyst: An investigation using positronium probe. <i>Journal of Solid State Chemistry</i> , 2019, 274, 10-17.	2.9	13
64	Palladium Impregnated Amine Co-condensed Hexagonal Mesoporous Silica: A Novel Catalyst in Tailoring Suzuki and Heck Coupling Reactions in Base Free Condition. <i>ChemistrySelect</i> , 2019, 4, 3823-3832.	1.5	10
65	Particle Size, Morphology, and Chemical Composition Controlled CoFe <sub>2</sub> O <sub>4</sub> Nanoparticles with Tunable Magnetic Properties via Oleic Acid Based Solvothermal Synthesis for Application in Electronic Devices. <i>ACS Applied Nano Materials</i> , 2019, 2, 1828-1843.	5.0	73
66	Role of trapped water on electroresponsive characteristic of silica-graphene oxide composite microspheres. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	6
67	Solvent evaporation driven entrapment of magnetic nanoparticles in mesoporous frame for designing a highly efficient MRI contrast probe. <i>Applied Surface Science</i> , 2019, 464, 567-576.	6.1	16
68	Anisotropic interaction driven surface modulation on spray-dried microgranules. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 149-158.	9.4	2
69	Probing the effect of a room temperature ionic liquid on phospholipid membranes in multilamellar vesicles. <i>European Biophysics Journal</i> , 2019, 48, 119-129.	2.2	19
70	Correlative SANS and TEM investigation on precipitation kinetics of H-phase in Ni <sub>50.3</sub> Ti <sub>29.7</sub> Hf <sub>20</sub> high temperature shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2019, 779, 630-642.	5.5	14
71	Biopolymer assisted synthesis of silica-carbon composite by spray drying. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 165, 182-190.	5.0	4
72	Field emission properties of nano-structured cobalt ferrite (CoFe <sub>2</sub> O <sub>4</sub> ) synthesized by low-temperature chemical method. <i>Chemical Physics Letters</i> , 2018, 701, 151-156.	2.6	28

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73	Anomalous toluene transport in model segmented polyurethane-urea/clay nanocomposites. <i>Soft Matter</i> , 2018, 14, 3870-3881.	2.7	8
74	Nanometric study of nickel oxide prepared by sol gel process. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
75	Dynamic modulation of inter-particle correlation during colloidal assembly in a confined medium: revealed by real time SAXS. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13271-13278.	2.8	5
76	Properties and morphology studies of proton exchange membranes based on cross-linked sulfonated poly (ether ether ketone) for electrochemical application: Effect of cross-linker chain length. <i>Solid State Ionics</i> , 2018, 316, 75-84.	2.7	22
77	Fabrication of highly ordered nanoporous alumina membranes: Probing microstructures by SAXS, FESEM and AFM. <i>Microporous and Mesoporous Materials</i> , 2018, 264, 13-21.	4.4	22
78	Nafion membrane incorporated with silver nanoparticles as optical test strip for dissolved hydrogen peroxide: Preparation, deployment and the mechanism of action. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 605-615.	7.8	10
79	Initial Response Lag time in Flat versus Non-Flat Beam Frameless Image Guided Trigeminal Radiosurgery. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, e350-e351.	0.8	0
80	Dosimetric Analysis of Flat versus Unflat Beams for Frameless Image guided Trigeminal Radiosurgery. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, e508.	0.8	0
81	Inter-particle interaction dependent evaporation-induced assembly in contact-free micro-colloidal droplets. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
82	Intra- and Inter-fraction Positioning Accuracy of Mask Versus Mask & Mouthbyte Immobilisation Systems for Frameless Linac-Based Intracranial Radiosurgery. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, e497.	0.8	0
83	Higher cohomology operations and R-completion. <i>Algebraic and Geometric Topology</i> , 2018, 18, 247-312.	0.4	3
84	Mapping spaces and R-completion. <i>Journal of Homotopy and Related Structures</i> , 2018, 13, 635-671.	0.7	0
85	In-situ small angle x-ray scattering investigation on nucleation and growth of silica colloids. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
86	Controlled surface/interface structure and spin enabled superior properties and biocompatibility of cobalt ferrite nanoparticles. <i>Applied Surface Science</i> , 2018, 459, 788-801.	6.1	26
87	Palladium Nanoparticles Hosted in Poly(ethylenimine) and Poly(ethylene glycol methacrylate) Reaction. <i>ACS Applied Nano Materials</i> , 2018, 1, 3259-3268.	5.0	12
88	Phytosynthesis of Silver Nanoparticles Using Walnut ( <i>Juglans regia</i> ) Bark with Characterization of the Antibacterial Activity against <i>Streptococcus mutans</i> . <i>Analytical Letters</i> , 2017, 50, 690-711.	1.8	12
89	Porous microcapsules comprised inter-locked nano-particles by evaporation-induced assembly: Evaluation of dye sorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 520, 279-288.	4.7	13
90	Cobalt nanoparticles for biomedical applications: Facile synthesis, physicochemical characterization, cytotoxicity behavior and biocompatibility. <i>Applied Surface Science</i> , 2017, 414, 171-187.	6.1	128

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91	Porous nano-structured micro-granules from silica-milk bi-colloidal suspension: Synthesis and characterization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 154, 421-428.	5.0	12
92	Structure and short time degradation studies of sodium zirconium phosphate ceramics loaded with simulated fast breeder (FBR) waste. <i>Journal of Nuclear Materials</i> , 2017, 487, 5-12.	2.7	13
93	Nano-structured silica coated mesoporous carbon micro-granules for potential application in water filtration. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
94	Hydrotrope induced structural modifications in CTAB/butanol/water/isooctane reverse micellar systems. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22033-22048.	2.8	9
95	Unraveling the Formation Mechanism of Dendritic Fibrous Nanosilica. <i>Langmuir</i> , 2017, 33, 13774-13782.	3.5	59
96	Spray-dried encapsulated starch and subsequent synthesis of carbon-silica core-shell micro-granules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 529, 696-704.	4.7	6
97	Investigation of nanosized BaTiO <sub>3</sub> obtained by novel chemical route: Structural, dielectric and ferroelectric properties. <i>Integrated Ferroelectrics</i> , 2017, 185, 155-164.	0.7	1
98	Controlling sphere to doughnut transformation during quick drying of colloidal micrometric droplets. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
99	A New Insight in Growth, Microstructural and Electrochemical Behavior of MWCNTs Synthesized by Various Thermal Methods. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 1923-1933.	0.9	1
100	Silver nanoparticles stabilized in porous polymer support: A highly active catalytic nanoreactor. <i>Applied Catalysis A: General</i> , 2016, 524, 214-222.	4.3	21
101	Modifications of microstructure and pore morphology in lithium-orthosilicate pebbles, due to the addition of excess lithium. <i>Fusion Engineering and Design</i> , 2016, 112, 613-620.	1.9	5
102	Effect of excess lithium on sintering behaviour of lithium-titanate pebbles: Modifications of microstructure and pore morphology. <i>Fusion Engineering and Design</i> , 2016, 112, 520-526.	1.9	13
103	Temperature Mediated Morphological Transition during Drying of Spray Colloidal Droplets. <i>Langmuir</i> , 2016, 32, 2464-2473.	3.5	41
104	Highly stable In-SBA-15 catalyst for vapor phase Beckmann rearrangement reaction. <i>Microporous and Mesoporous Materials</i> , 2016, 234, 293-302.	4.4	20
105	Size and Chemistry Controlled Cobalt-Ferrite Nanoparticles and Their Anti-proliferative Effect against the MCF-7 Breast Cancer Cells. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 2139-2152.	5.2	46
106	Temporal evolution of coherent precipitates in an aluminum alloy W319: A correlative anisotropic small angle X-ray scattering, transmission electron microscopy and atom-probe tomography study. <i>Acta Materialia</i> , 2016, 116, 219-230.	7.9	21
107	Fatty acid as structure directing agent for controlled secondary growth of CoFe <sub>2</sub> O <sub>4</sub> nanoparticles to achieve mesoscale assemblies: A facile approach for developing hierarchical structures. <i>Applied Surface Science</i> , 2016, 379, 530-539.	6.1	6
108	Controllable synthesis of niobium doped mesoporous silica materials with various morphologies and its activity for oxidative catalysis. <i>Microporous and Mesoporous Materials</i> , 2016, 226, 169-178.	4.4	11

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109	Organic-inorganic composite micro-granules by evaporation induced assembly: role of trapped water in structural evolution. RSC Advances, 2015, 5, 22884-22891.	3.6	11
110	Uptake of Cs and Sr radionuclides within oleic acid coated nanomagnetite-hematite composite. Journal of Nuclear Materials, 2015, 467, 512-518.	2.7	3
111	Influence of doping on crystal growth, structure and optical properties of nanocrystalline CaTiO <sub>3</sub> : a case study using small-angle neutron scattering. Journal of Applied Crystallography, 2015, 48, 836-843.	4.5	20
112	A small angle neutron scattering study of isolated nanopores in a ceramic. Journal of Alloys and Compounds, 2015, 628, 97-101.	5.5	2
113	E. coli imprinted nano-structured silica micro-granules by spray drying: Optimization of calcination temperature. Colloids and Surfaces B: Biointerfaces, 2015, 127, 164-171.	5.0	11
114	Understanding Nitric Acid-Induced Changes in the Arrangement of Monomeric and Polymeric Methacryloyl Diglycolamides on Their Affinity toward f-Element Ions. Journal of Physical Chemistry B, 2015, 119, 212-218.	2.6	12
115	Bismuth supported SBA-15 catalyst for vapour phase Beckmann rearrangement reaction of cyclohexanone oxime to $\epsilon$ -caprolactam. Applied Catalysis A: General, 2015, 497, 51-57.	4.3	20
116	Structure at Interphase of Poly(vinyl alcohol)-SiC Nanofiber Composite and Its Impact on Mechanical Properties: Positron Annihilation and Small-Angle X-ray Scattering Studies. Macromolecules, 2015, 48, 5706-5713.	4.8	45
117	Aerobic Baeyer-Villiger oxidation of cyclic ketones over periodic mesoporous silica Cu/Fe/Ni/Co-HMS-X. Applied Catalysis A: General, 2015, 505, 515-523.	4.3	21
118	Representing Bredon cohomology with local coefficients. Journal of Pure and Applied Algebra, 2015, 219, 3992-4015.	0.6	2
119	Mesoporous TUD-1 supported indium oxide nanoparticles for epoxidation of styrene using molecular O <sub>2</sub> . RSC Advances, 2015, 5, 46850-46860.	3.6	28
120	Colloidal Nanoparticle Interaction Transition during Solvent Evaporation Investigated by in-Situ Small-Angle X-ray Scattering. Langmuir, 2015, 31, 4612-4618.	3.5	24
121	Study on fused/cast AZS refractories for deployment in vitrification of radioactive waste effluents. Journal of Nuclear Materials, 2015, 467, 144-154.	2.7	1
122	Formation of nano-structured core-shell micro-granules by evaporation induced assembly. RSC Advances, 2015, 5, 85052-85060.	3.6	21
123	Reassembling nanometric magnetic subunits into secondary nanostructures with controlled interparticle spacing. RSC Advances, 2015, 5, 694-705.	3.6	13
124	Small-angle neutron scattering investigations of nanocrystalline alloy chips obtained by machining. Cogent Engineering, 2014, 1, 951149.	2.2	0
125	Mesoscopic structural investigations using neutrons at Trombay. Neutron News, 2014, 25, 26-30.	0.2	3
126	Small-angle neutron scattering as a probe to decide the maximum limit of chemical waste immobilization in a cement matrix. Journal of Applied Crystallography, 2014, 47, 421-429.	4.5	7



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127	Novel polysulfoneâ€“spray-dried silica composite membrane for water purification: Preparation, characterization and performance evaluation. Separation and Purification Technology, 2014, 123, 79-86.	7.9	15
128	Evaporation induced self assembled microstructures of silica nanoparticles and Streptococcus lactis cells as sorbent for uranium (VI). Journal of Colloid and Interface Science, 2014, 414, 33-40.	9.4	19
129	Time resolved growth of membrane stabilized silver NPs and their catalytic activity. RSC Advances, 2014, 4, 59379-59386.	3.6	15
130	A facile fabrication of a uniform and homogeneous CNTâ€“TiO <sub>2</sub> composite: a microscopic and scattering investigation. RSC Advances, 2014, 4, 13231-13240.	3.6	2
131	Niobium doped hexagonal mesoporous silica (HMS-X) catalyst for vapor phase Beckmann rearrangement reaction. RSC Advances, 2014, 4, 845-854.	3.6	28
132	Redox Decomposition of Silver Citrate Complex in Nanoscale Confinement: An Unusual Mechanism of Formation and Growth of Silver Nanoparticles. Langmuir, 2014, 30, 2460-2469.	3.5	50
133	Influence of aging on phase transformation and microstructure of Ni 50.3 Ti 29.7 Hf 20 high temperature shape memory alloy. Journal of Alloys and Compounds, 2014, 615, 469-474.	5.5	18
134	Probing evaporation induced assembly across a drying colloidal droplet using in situ small-angle X-ray scattering at the synchrotron source. Soft Matter, 2014, 10, 1621.	2.7	37
135	Enhanced Quantum Confined Stark Effect in a mesoporous hybrid multifunctional system. Solid State Communications, 2014, 187, 48-52.	1.9	2
136	Micro-structural investigations of spray hydrolyzed TiO <sub>2</sub> . Journal of Alloys and Compounds, 2014, 584, 101-107.	5.5	5
137	Highly active Ga promoted Co-HMS-X catalyst towards styrene epoxidation reaction using molecular O <sub>2</sub> . Applied Catalysis A: General, 2014, 482, 61-68.	4.3	36
138	An iterative method to extract the size distribution of non-interacting polydisperse spherical particles from small-angle scattering data. Journal of Applied Crystallography, 2014, 47, 712-718.	4.5	2
139	Mesoporous Alumina (MA) Based Double Column Approach for Development of a Clinical Scale <sup>99</sup> Mo/ <sup>99m</sup> Tc Generator Using (n,î³) <sup>99</sup> Mo: An Enticing Application of Nanomaterial. Industrial & Engineering Chemistry Research, 2013, 52, 11673-11684.	3.7	31
140	A comparative study of conventionally sintered, microwave sintered and hot isostatic press sintered NZP and CZP structures interacted with fluoride. Ceramics International, 2013, 39, 9351-9359.	4.8	15
141	Spray drying as a novel technique for obtaining microbial imprinted microspheres and its application in filtration. Soft Matter, 2013, 9, 805-810.	2.7	18
142	Barium, calcium and magnesium doped mesoporous ceria supported gold nanoparticle for benzyl alcohol oxidation using molecular O <sub>2</sub> . Catalysis Science and Technology, 2013, 3, 360-370.	4.1	61
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