Tapas T Sen

List of Publications by Year
in descending order

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58 papers	4,703 citations	201385 27 h-index	149479 56 g-index
59 all docs	59 docs citations	59 times ranked	7329 citing authors

#	Article	IF	Citations
1	Superparamagnetic iron oxide nanoparticles (SPIONs) as therapeutic and diagnostic agents. , 2022, , 455-497.		7
2	Visible Light-Driven Selective Organic Degradation by FeTiO3/Persulfate System: the Formation and Effect of High Valent Fe(IV). Applied Catalysis B: Environmental, 2021, 280, 119414.	10.8	67
3	Iron Oxide-Based Magneto-Optical Nanocomposites for In Vivo Biomedical Applications. Biomedicines, 2021, 9, 288.	1.4	23
4	Metalâ€“Organic Framework MIL-101(Fe) Nanoparticles Decorated with Ag Nanoparticles for Regulating the Photocatalytic Phenol Oxidation Pathway for Cr(VI) Reduction. ACS Applied Nano Materials, 2021, 4, 4513-4521.	2.4	29
5	Iron oxide nanoparticles conjugated with organic optical probes for inÂvivo diagnostic and therapeutic applications. Nanomedicine, 2021, 16, 943-962.	1.7	19
6	Special Focus Issue Part I: Functional nanomaterials in cancer therapy. Nanomedicine, 2021, 16, 879-882.	1.7	3
7	Fluorescein-entrapped magnetosomes for magnetically assisted photodynamic therapy. Nanomedicine, 2021, 16, 883-894.	1.7	4
8	Targeting nonapoptotic pathways with functionalized nanoparticles for cancer therapy: current and future perspectives. Nanomedicine, 2021, 16, 1049-1065.	1.7	7
9	Cu(II)-grafted 2D-hexagonal mesoporous material as an efficient catalyst for Sonogashira C-C cross-coupling reaction. Materials Today: Proceedings, 2021, 45, 3733-3740.	0.9	1
10	Advances in multi-functional superparamagnetic iron oxide nanoparticles in magnetic fluid hyperthermia for medical applications. , 2020, , 333-345.		1
11	Hierarchical porous TiO2 single crystals templated from partly glassified polystyrene. Journal of Colloid and Interface Science, 2019, 538, 248-255.	5.0	6
12	Tunable Self-Assembled Peptide Structure: A Novel Approach to Design Dual-Use Biological Agents. Materials Today: Proceedings, 2017, 4, 32-40.	0.9	8
13	Editorial preface: A special issue on themes (i) Nano-energy / Environmental for a better Society and (iii) Nano-catalysis for Green technology. Materials Today: Proceedings, 2017, 4, 1-8.	0.9	1
14	Novel Multifunctional Carbon Nanotube Containing Silver and Iron Oxide Nanoparticles for Antimicrobial Applications in Water Treatment. Materials Today: Proceedings, 2017, 4, 57-64.	0.9	31
15	Triazine containing N-rich microporous organic polymers for CO 2 capture and unprecedented CO 2 /N 2 selectivity. Journal of Solid State Chemistry, 2017, 247, 113-119.	1.4	29
16	A recent trend of drug-nanoparticles in suspension for the application in drug delivery. Nanomedicine, 2016, 11, 2861-2876.	1.7	10
17	Drug-loaded liposome-capped mesoporous coreâ€“shell magnetic nanoparticles for cellular toxicity study. Nanomedicine, 2016, 11, 2757-2767.	1.7	12
18	A magnetically recoverable nanocatalyst based on functionalized mesoporous silica. Journal of Molecular Catalysis A, 2016, 415, 17-26.	4.8	5

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19	Exploitation of functional nanomaterials in therapy and diagnostics. Nanomedicine, 2016, 11, 2753-2755.	1.7	1
20	Carbonâ€Dotâ€Sensitized, Nitrogenâ€Doped TiO₂ in Mesoporous Silica for Water Decontamination through Nonhydrophobic Enrichmentâ€“Degradation Mode. Chemistry - A European Journal, 2015, 21, 17944-17950.	1.7	38
21	The fabrication and characterization of stable core-shell superparamagnetic nanocomposites for potential application in drug delivery. Journal of Applied Physics, 2015, 117, 17D139.	1.1	11
22	Sensitive and easily recyclable plasmonic SERS substrate based on Ag nanowires in mesoporous silica. RSC Advances, 2014, 4, 57743-57748.	1.7	15
23	Enzyme immobilised novel coreâ€“shell superparamagnetic nanocomposites for enantioselective formation of 4-(R)-hydroxycyclopent-2-en-1-(S)-acetate. Chemical Communications, 2014, 50, 11185-11187.	2.2	11
24	Superparamagnetic Nanoparticles Direct Differentiation of Embryonic Stem Cells Into Skeletal Muscle Cells. Journal of Biomaterials and Tissue Engineering, 2014, 4, 579-585.	0.0	14
25	Surface engineering of nanoparticles in suspension for particle based bio-sensing. Scientific Reports, 2012, 2, 564.	1.6	26
26	A hierarchically ordered porous novel vanado-silicate catalyst for highly efficient oxidation of bulky organic molecules. Chemical Communications, 2012, 48, 4232.	2.2	8
27	Simple one-pot fabrication of ultra-stable core-shell superparamagnetic nanoparticles for potential application in drug delivery. RSC Advances, 2012, 2, 5221.	1.7	23
28	Fe3O4@mesoporous SBA-15: a robust and magnetically recoverable catalyst for one-pot synthesis of 3,4-dihydropyrimidin-2(1H)-ones via the Biginelli reaction. Dalton Transactions, 2012, 41, 6173.	1.6	225
29	Preparation and characterisation of porous silica and silica/titania monoliths for potential use in bone replacement. Microporous and Mesoporous Materials, 2012, 156, 51-61.	2.2	17
30	Silicon, silica and its surface patterning/activation with alkoxy- and amino-silanes for nanomedical applications. Nanomedicine, 2011, 6, 281-300.	1.7	35
31	Superparamagnetic iron oxide nanoparticles (SPIONs): Development, surface modification and applications in chemotherapy. Advanced Drug Delivery Reviews, 2011, 63, 24-46.	6.6	1,555
32	Design of water-based ferrofluids as contrast agents for magnetic resonance imaging. Journal of Colloid and Interface Science, 2011, 357, 50-55.	5.0	47
33	Surface functionalisation of magnetic nanoparticles: quantification of surface to bulk amine density. Micro and Nano Letters, 2010, 5, 282.	0.6	20
34	Fabrication of novel hierarchically ordered porous magnetic nanocomposites for bio-catalysis. Chemical Communications, 2010, 46, 6807.	2.2	40
35	Mesoporous silicaâ€“magnetite nanocomposites: Fabrication, characterisation and applications in biosciences. Microporous and Mesoporous Materials, 2009, 120, 246-251.	2.2	61
36	Extraction of DNA from soil using nanoparticles by magnetic bioseparation. Letters in Applied Microbiology, 2008, 46, 488-491.	1.0	39

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37	Mesoporous Silicaâˆ'Magnetite Nanocomposite:Â Fabrication and Applications in Magnetic Bioseparations. Journal of the American Chemical Society, 2006, 128, 7130-7131.	6.6	262
38	Dispersion of magnetic nanoparticles in suspension. Micro and Nano Letters, 2006, 1, 39.	0.6	14
39	Meso-cellular silica foams, macro-cellular silica foams and mesoporous solids: a study of emulsion-mediated synthesis. Microporous and Mesoporous Materials, 2005, 78, 255-263.	2.2	57
40	Multifunctional magnetite and silicaâ€"magnetite nanoparticles: Synthesis, surface activation and applications in life sciences. Journal of Magnetism and Magnetic Materials, 2005, 293, 33-40.	1.0	203
41	Surface Modification of Magnetic Nanoparticles with Alkoxysilanes and Their Application in Magnetic Bioseparations. Langmuir, 2005, 21, 7029-7035.	1.6	417
42	Synthesis, characterisation and application of silica-magnetite nanocomposites. Journal of Magnetism and Magnetic Materials, 2004, 284, 145-160.	1.0	265
43	Synthesis and Characterization of Hierarchically Ordered Porous Silica Materials. Chemistry of Materials, 2004, 16, 2044-2054.	3.2	137
44	One-Pot Synthesis of Hierarchically Ordered Porous-Silica Materials with Three Orders of Length Scale. Angewandte Chemie - International Edition, 2003, 42, 4649-4653.	7.2	146
45	Dynamics and Ordering in the Columnar Mesophases of Octa-alkyloxy Orthocylophane:Â A Carbon-13 NMR Investigation. Journal of Physical Chemistry B, 2003, 107, 13033-13043.	1.2	9
46	Macro-cellular silica foams: synthesis during the natural creaming process of an oil-in-water emulsion. Chemical Communications, 2003, , 2182.	2.2	52
47	Mesoporous alumina catalytic material prepared by grafting wide-pore MCM-41 with an alumina multilayer. Microporous and Mesoporous Materials, 2001, 49, 65-81.	2.2	72
48	Bond-Shift Rearrangement in Solid Li3P7(Monoglyme)3: A 31P MAS NMR Study. Journal of Magnetic Resonance, 2001, 153, 227-237.	1.2	6
49	A 31P Dynamic NMR Study of the Bond Shift Rearragement in Solid Li3P7. Journal of the American Chemical Society, 2000, 122, 889-896.	6.6	19
50	Wetting stability of Si-MCM-41 mesoporous material in neutral, acidic and basic aqueous solutions. Microporous and Mesoporous Materials, 1999, 33, 149-163.	2.2	170
51	Incorporation of vanadium species in a dealuminated Î² zeolite. Chemical Communications, 1998, , 87-88.	2.2	136
52	Anisotropic Chemical Shielding, M-Site Ordering, and Characterization of Extraframework Cations in ETS-10 Studied through MAS/MQ-MAS NMR and Molecular Modeling Techniques. Journal of the American Chemical Society, 1998, 120, 4752-4762.	6.6	34
53	Catalytic Transformation of Ethanol over Microporous Vanadium Silicate Molecular Sieves with MEL Structure (VS-2). Journal of Catalysis, 1997, 170, 304-310.	3.1	14
54	Incorporation of Vanadium in Zeolite Lattices:Â Studies of the MEL (ZSM-11) System. The Journal of Physical Chemistry, 1996, 100, 3809-3817.	2.9	85

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55	The Nature of Vanadium in Vanado-Silicate (MFI) Molecular Sieves: Influence of Synthesis Methods. Journal of Catalysis, 1996, 163, 354-364.	3.1	66
56	Multinuclear MAS NMR spectroscopic study of the zeolite, MCM-22. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 3549.	1.7	11
57	Novel large-pore vanadium alumino- and boro-silicates with BEA structure. Journal of the Chemical Society Chemical Communications, 1995, , 207.	2.0	39
58	Synthesis, Characterization and Catalytic properties of Zeolite PSH-3/MCM-22.. Studies in Surface Science and Catalysis, 1994, 84, 331-338.	1.5	40