

# 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): Development, surface modification and applications in chemotherapy. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 24-46.	6.6	1,555
2	Surface Modification of Magnetic Nanoparticles with Alkoxysilanes and Their Application in Magnetic Bioseparations. <i>Langmuir</i> , 2005, 21, 7029-7035.	1.6	417
3	Synthesis, characterisation and application of silica-magnetite nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 284, 145-160.	1.0	265
4	Mesoporous Silica-Magnetite Nanocomposite: Fabrication and Applications in Magnetic Bioseparations. <i>Journal of the American Chemical Society</i> , 2006, 128, 7130-7131.	6.6	262
5	Fe <sub>3</sub> O <sub>4</sub> @mesoporous SBA-15: a robust and magnetically recoverable catalyst for one-pot synthesis of 3,4-dihydropyrimidin-2(1H)-ones via the Biginelli reaction. <i>Dalton Transactions</i> , 2012, 41, 6173.	1.6	225
6	Multifunctional magnetite and silica-magnetite nanoparticles: Synthesis, surface activation and applications in life sciences. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 293, 33-40.	1.0	203
7	Wetting stability of Si-MCM-41 mesoporous material in neutral, acidic and basic aqueous solutions. <i>Microporous and Mesoporous Materials</i> , 1999, 33, 149-163.	2.2	170
8	One-Pot Synthesis of Hierarchically Ordered Porous-Silica Materials with Three Orders of Length Scale. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4649-4653.	7.2	146
9	Synthesis and Characterization of Hierarchically Ordered Porous Silica Materials. <i>Chemistry of Materials</i> , 2004, 16, 2044-2054.	3.2	137
10	Incorporation of vanadium species in a dealuminated $\beta$ zeolite. <i>Chemical Communications</i> , 1998, , 87-88.	2.2	136
11	Incorporation of Vanadium in Zeolite Lattices: Studies of the MEL (ZSM-11) System. <i>The Journal of Physical Chemistry</i> , 1996, 100, 3809-3817.	2.9	85
12	Mesoporous alumina catalytic material prepared by grafting wide-pore MCM-41 with an alumina multilayer. <i>Microporous and Mesoporous Materials</i> , 2001, 49, 65-81.	2.2	72
13	Visible Light-Driven Selective Organic Degradation by FeTiO <sub>3</sub> /Persulfate System: the Formation and Effect of High Valent Fe(IV). <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119414.	10.8	67
14	The Nature of Vanadium in Vanado-Silicate (MFI) Molecular Sieves: Influence of Synthesis Methods. <i>Journal of Catalysis</i> , 1996, 163, 354-364.	3.1	66
15	Mesoporous silica-magnetite nanocomposites: Fabrication, characterisation and applications in biosciences. <i>Microporous and Mesoporous Materials</i> , 2009, 120, 246-251.	2.2	61
16	Meso-cellular silica foams, macro-cellular silica foams and mesoporous solids: a study of emulsion-mediated synthesis. <i>Microporous and Mesoporous Materials</i> , 2005, 78, 255-263.	2.2	57
17	Macro-cellular silica foams: synthesis during the natural creaming process of an oil-in-water emulsion. <i>Chemical Communications</i> , 2003, , 2182.	2.2	52
18	Design of water-based ferrofluids as contrast agents for magnetic resonance imaging. <i>Journal of Colloid and Interface Science</i> , 2011, 357, 50-55.	5.0	47

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19	Synthesis, Characterization and Catalytic properties of Zeolite PSH-3/MCM-22.. Studies in Surface Science and Catalysis, 1994, 84, 331-338.	1.5	40
20	Fabrication of novel hierarchically ordered porous magnetic nanocomposites for bio-catalysis. Chemical Communications, 2010, 46, 6807.	2.2	40
21	Novel large-pore vanadium alumino- and boro-silicates with BEA structure. Journal of the Chemical Society Chemical Communications, 1995, , 207.	2.0	39
22	Extraction of DNA from soil using nanoparticles by magnetic bioseparation. Letters in Applied Microbiology, 2008, 46, 488-491.	1.0	39
23	Carbon- $\delta$ -sensitized, Nitrogen-doped TiO <sub>2</sub> in Mesoporous Silica for Water Decontamination through Nonhydrophobic Enrichment- $\delta$ Degradation Mode. Chemistry - A European Journal, 2015, 21, 17944-17950.	1.7	38
24	Silicon, silica and its surface patterning/activation with alkoxy- and amino-silanes for nanomedical applications. Nanomedicine, 2011, 6, 281-300.	1.7	35
25	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
26	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
27	Triazine containing N-rich microporous organic polymers for CO <sub>2</sub> capture and unprecedented CO <sub>2</sub> /N <sub>2</sub> selectivity. Journal of Solid State Chemistry, 2017, 247, 113-119.	1.4	29
28	Metal-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
29	Surface engineering of nanoparticles in suspension for particle based bio-sensing. Scientific Reports, 2012, 2, 564.	1.6	26
30	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
31	Iron Oxide-Based Magneto-Optical Nanocomposites for In Vivo Biomedical Applications. Biomedicines, 2021, 9, 288.	1.4	23
32	Surface functionalisation of magnetic nanoparticles: quantification of surface to bulk amine density. Micro and Nano Letters, 2010, 5, 282.	0.6	20
33	A <sup>31</sup> P Dynamic NMR Study of the Bond Shift Rearrangement in Solid Li <sub>3</sub> P <sub>7</sub> . Journal of the American Chemical Society, 2000, 122, 889-896.	6.6	19
34	Iron oxide nanoparticles conjugated with organic optical probes for <i>in vivo</i> diagnostic and therapeutic applications. Nanomedicine, 2021, 16, 943-962.	1.7	19
35	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
36	Sensitive and easily recyclable plasmonic SERS substrate based on Ag nanowires in mesoporous silica. RSC Advances, 2014, 4, 57743-57748.	1.7	15

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37	Catalytic Transformation of Ethanol over Microporous Vanadium Silicate Molecular Sieves with MEL Structure (VS-2). <i>Journal of Catalysis</i> , 1997, 170, 304-310.	3.1	14
38	Dispersion of magnetic nanoparticles in suspension. <i>Micro and Nano Letters</i> , 2006, 1, 39.	0.6	14
39	Superparamagnetic Nanoparticles Direct Differentiation of Embryonic Stem Cells Into Skeletal Muscle Cells. <i>Journal of Biomaterials and Tissue Engineering</i> , 2014, 4, 579-585.	0.0	14
40	Drug-loaded liposome-capped mesoporous core-shell magnetic nanoparticles for cellular toxicity study. <i>Nanomedicine</i> , 2016, 11, 2757-2767.	1.7	12
41	Multinuclear MAS NMR spectroscopic study of the zeolite, MCM-22. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 3549.	1.7	11
42	Enzyme immobilised novel core-shell superparamagnetic nanocomposites for enantioselective formation of 4-(R)-hydroxycyclopent-2-en-1-(S)-acetate. <i>Chemical Communications</i> , 2014, 50, 11185-11187.	2.2	11
43	The fabrication and characterization of stable core-shell superparamagnetic nanocomposites for potential application in drug delivery. <i>Journal of Applied Physics</i> , 2015, 117, 17D139.	1.1	11
44	A recent trend of drug-nanoparticles in suspension for the application in drug delivery. <i>Nanomedicine</i> , 2016, 11, 2861-2876.	1.7	10
45	Dynamics and Ordering in the Columnar Mesophases of Octa-alkyloxy Orthocyclophane: A Carbon-13 NMR Investigation. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13033-13043.	1.2	9
46	A hierarchically ordered porous novel vanado-silicate catalyst for highly efficient oxidation of bulky organic molecules. <i>Chemical Communications</i> , 2012, 48, 4232.	2.2	8
47	Tunable Self-Assembled Peptide Structure: A Novel Approach to Design Dual-Use Biological Agents. <i>Materials Today: Proceedings</i> , 2017, 4, 32-40.	0.9	8
48	Targeting nonapoptotic pathways with functionalized nanoparticles for cancer therapy: current and future perspectives. <i>Nanomedicine</i> , 2021, 16, 1049-1065.	1.7	7
49	Superparamagnetic iron oxide nanoparticles (SPIONs) as therapeutic and diagnostic agents. , 2022, , 455-497.		7
50	Bond-Shift Rearrangement in Solid Li3P7(Monoglyme)3: A 31P MAS NMR Study. <i>Journal of Magnetic Resonance</i> , 2001, 153, 227-237.	1.2	6
51	Hierarchical porous TiO2 single crystals templated from partly glassified polystyrene. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 248-255.	5.0	6
52	A magnetically recoverable nanocatalyst based on functionalized mesoporous silica. <i>Journal of Molecular Catalysis A</i> , 2016, 415, 17-26.	4.8	5
53	Fluorescein-entrapped magnetosomes for magnetically assisted photodynamic therapy. <i>Nanomedicine</i> , 2021, 16, 883-894.	1.7	4
54	Special Focus Issue Part I: Functional nanomaterials in cancer therapy. <i>Nanomedicine</i> , 2021, 16, 879-882.	1.7	3

#	ARTICLE	IF	CITATIONS
55	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
56	Advances in multi-functional superparamagnetic iron oxide nanoparticles in magnetic fluid hyperthermia for medical applications. , 2020, , 333-345.		1
57	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
58	Exploitation of functional nanomaterials in therapy and diagnostics. Nanomedicine, 2016, 11, 2753-2755.	1.7	1