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List of Publications by Year
in descending order

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41 papers	1,693 citations	218592 26 h-index	302012 39 g-index
44 all docs	44 docs citations	44 times ranked	1391 citing authors

#	Article	IF	Citations
1	Hybrid silica membranes with enhanced hydrogen and CO2 separation properties. Journal of Membrane Science, 2015, 488, 121-128.	4.1	60
2	Tuning the nanopore structure and separation behavior of hybrid organosilica membranes. Microporous and Mesoporous Materials, 2014, 185, 224-234.	2.2	54
3	Hybrid organosilica membranes and processes: Status and outlook. Separation and Purification Technology, 2014, 121, 2-12.	3.9	70
4	Evolution of microstructure in mixed niobia-hybrid silica thin films from solâ€“gel precursors. Journal of Colloid and Interface Science, 2013, 404, 24-35.	5.0	13
5	From hydrophilic to hydrophobic HybSiÂ® membranes: A change of affinity and applicability. Journal of Membrane Science, 2013, 428, 157-162.	4.1	45
6	Nanostructure Development in Alkoxide-Carboxylate-Derived Precursor Films of Barium Titanate. Journal of Physical Chemistry C, 2012, 116, 425-434.	1.5	10
7	Time-resolved small angle X-ray scattering study of solâ€“gel precursor solutions of lead zirconate titanate and zirconia. Journal of Colloid and Interface Science, 2012, 369, 184-192.	5.0	12
8	Development of Nanoscale Inhomogeneities during Drying of Solâ€“Gel Derived Amorphous Lead Zirconate Titanate Precursor Thin Films. Langmuir, 2011, 27, 11081-11089.	1.6	6
9	Structural studies of water in hydrophilic and hydrophobic mesoporous silicas: An x-ray and neutron diffraction study at 297 K. Journal of Chemical Physics, 2011, 134, 064509.	1.2	35
10	Versatile membrane makes large-scale energy-efficient separation possible. Membrane Technology, 2011, 2011, 9.	0.5	0
11	Nanoscale Structure Evolution in Alkoxideâ€“Carboxylate Solâ€“Gel Precursor Solutions of Barium Titanate. Journal of Physical Chemistry C, 2011, 115, 20449-20459.	1.5	16
12	Evaluation of hybrid silica sols for stable microporous membranes using high-throughput screening. Journal of Sol-Gel Science and Technology, 2011, 57, 245-252.	1.1	49
13	Tailoring the Separation Behavior of Hybrid Organosilica Membranes by Adjusting the Structure of the Organic Bridging Group. Advanced Functional Materials, 2011, 21, 2319-2329.	7.8	155
14	MEMBRANES: Tailoring the Separation Behavior of Hybrid Organosilica Membranes by Adjusting the Structure of the Organic Bridging Group (Adv. Funct. Mater. 12/2011). Advanced Functional Materials, 2011, 21, 2318-2318.	7.8	0
15	Pushing membrane stability boundaries with HybSiÂ® pervaporation membranes. Journal of Membrane Science, 2011, 380, 124-131.	4.1	87
16	Exfoliation and Restacking of Lepidocrocite-type Layered Titanates Studied by Small-Angle X-ray Scattering. Journal of Physical Chemistry C, 2010, 114, 21281-21286.	1.5	22
17	Studies of water and ice in hydrophilic and hydrophobic mesoporous silicas: pore characterisation and phase transformations. Physical Chemistry Chemical Physics, 2010, 12, 2838.	1.3	45
18	Stable Hybrid Silica Nanosieve Membranes for the Dehydration of Lower Alcohols. ChemSusChem, 2009, 2, 158-160.	3.6	62

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19	Structure and Growth of Polymeric Niobia-Silica Mixed-Oxide Sols for Microporous Molecular Sieving Membranes: A SAXS Study. Chemistry of Materials, 2009, 21, 1822-1828.	3.2	28
20	Structural studies of water in a confined hydrophobic environment. Journal of Physics: Conference Series, 2009, 177, 012010.	0.3	3
21	Structure of hybrid organicâ€“inorganic sols for the preparation of hydrothermally stable membranes. Journal of Sol-Gel Science and Technology, 2008, 48, 11-17.	1.1	35
22	High-performance hybrid pervaporation membranes with superior hydrothermal and acid stability. Journal of Membrane Science, 2008, 324, 111-118.	4.1	114
23	Hybrid ceramic nanosieves: stabilizing nanopores with organic links. Chemical Communications, 2008, , 1103.	2.2	132
24	Hydrothermally stable molecular separation membranes from organically linked silica. Journal of Materials Chemistry, 2008, 18, 2150.	6.7	180
25	Microporous structure and enhanced hydrophobicity in methylated SiO2 for molecular separation. Journal of Materials Chemistry, 2007, 17, 1509.	6.7	38
26	New Highly Mixed Phases in Ball-Milled Cu/ZnO Catalysts as Established by EXAFS and XANES. AIP Conference Proceedings, 2007, , .	0.3	6
27	Perovskite-type oxides as susceptor materials in dielectric heating. Journal of Materials Science, 2007, 42, 5851-5859.	1.7	5
28	Highly Mixed Phases in Ball-milled Cu/ZnO Catalysts:â€‰ An EXAFS and XANES Study. Journal of Physical Chemistry B, 2006, 110, 16892-16901.	1.2	29
29	Increasing the hydrothermal stability of mesoporous SiO2 with methylchlorosilanesâ€”a â€˜structuralâ€™ study. Microporous and Mesoporous Materials, 2006, 88, 63-71.	2.2	27
30	Hydrophobisation of mesoporous Î³-Al2O3 with organochlorosilanesâ€”efficiency and structure. Microporous and Mesoporous Materials, 2005, 83, 1-9.	2.2	29
31	The effect of the reduction temperature on the structure of Cu/ZnO/SiO2 catalysts for methanol synthesis. Journal of Catalysis, 2005, 229, 136-143.	3.1	58
32	Microwave-assisted in-situ regeneration of a perovskite coated diesel soot filter. Chemical Engineering Science, 2005, 60, 797-804.	1.9	38
33	Dielectric heating effects on the activity and SO2 resistance of La0.8Ce0.2MnO3 perovskite for methane oxidation. Journal of Catalysis, 2004, 221, 523-531.	3.1	45
34	Step response and transient isotopic labelling studies into the mechanism of CO oxidation over La0.8Ce0.2MnO3 perovskite. Applied Catalysis B: Environmental, 2004, 54, 93-103.	10.8	32
35	Free volume changes in mechanically milled PS and PC studied by positron annihilation lifetime spectroscopy (PALS). Polymer Engineering and Science, 2004, 44, 1351-1359.	1.5	9
36	Hydrophobic modification of Î³-alumina membranes with organochlorosilanes. Journal of Membrane Science, 2004, 243, 125-132.	4.1	81

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37	Mechanochemical Reactions in Cu/ZnO Catalysts Induced by Mechanical Milling. Journal of Physical Chemistry B, 2001, 105, 7928-7937.	1.2	26
38	Oxidation and reduction in copper/zinc oxides by mechanical milling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 418-423.	2.6	28
39	Mechanochemical Reactions on Copper-Based Compounds. Journal of Metastable and Nanocrystalline Materials, 1999, 2-6, 209-214.	0.1	1
40	STRUCTURAL TRANSFORMATIONS IN AMORPHOUS POLYMERS BY MECHANICAL MILLING. , 1998, , .		0
41	Instrumentation for Î” photoproduction experiments on nuclei with high-energy resolution. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 399, 160-170.	0.7	2