Dominik BrÃ¼hwiler

List of Publications by Year
in descending order

64 papers	2,425 citations	201385 27 h-index	197535 49 g-index
66 all docs	66 docs citations	66 times ranked	2826 citing authors

#	Article	IF	Citations
1	Postsynthetic functionalization of mesoporous silica. Nanoscale, 2010, 2, 887.	2.8	204
2	Synthesis of Zeolite L. Tuning Size and Morphology. Monatshefte FÃ¼r Chemie, 2005, 136, 77-89.	0.9	173
3	Molecular sieves as host materials for supramolecular organization. Microporous and Mesoporous Materials, 2004, 72, 1-23.	2.2	145
4	Nanochannels for supramolecular organization of luminescent guests. Journal of Materials Chemistry, 2009, 19, 8040.	6.7	139
5	Pore condensation and freezing is responsible for ice formation below water saturation for porous particles. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8184-8189.	3.3	113
6	Controlling and Imaging the Functionalâ€Group Distribution on Mesoporous Silica. Angewandte Chemie - International Edition, 2009, 48, 6354-6356.	7.2	99
7	Luminescent Silver Sulfide Clusters. Journal of Physical Chemistry B, 2002, 106, 3770-3777.	1.2	94
8	Designing Dyeâ€"Nanochannel Antenna Hybrid Materials for Light Harvesting, Transport and Trapping. ChemPhysChem, 2011, 12, 580-594.	1.0	90
9	Playing with dye molecules at the inner and outer surface of zeolite L. Solid State Sciences, 2000, 2, 421-447.	1.5	89
10	Spectral-based analysis of thin film luminescent solar concentrators. Solar Energy, 2010, 84, 1366-1369.	2.9	74
11	Dyeâ€Modified Nanochannel Materials for Photoelectronic and Optical Devices. Chemistry - A European Journal, 2008, 14, 7442-7449.	1.7	65
12	The Effect of Water on the Functionalization of Mesoporous Silica with 3-Aminopropyltriethoxysilane. Journal of Physical Chemistry Letters, 2010, 1, 379-382.	2.1	64
13	Quantum-Sized Silver Sulfide Clusters in Zeolite A. Journal of Physical Chemistry B, 1999, 103, 6397-6399.	1.2	63
14	Distribution of Amino Groups on a Mesoporous Silica Surface after Submonolayer Deposition of Aminopropylsilanes from an Anhydrous Liquid Phase. Journal of Physical Chemistry C, 2007, 111, 923-929.	1.5	62
15	Accessibility of Amino Groups in Postsynthetically Modified Mesoporous Silica. Journal of Physical Chemistry C, 2009, 113, 10667-10674.	1.5	60
16	A comparative study of the functionalization of mesoporous silica MCM-41 by deposition of 3-aminopropyltrimethoxysilane from toluene and from the vapor phase. Microporous and Mesoporous Materials, 2009, 121, 79-83.	2.2	59
17	Structure of Ni(II) and Ru(III) Ammine Complexes Grafted onto Mesoporous Silicate Sieve. Journal of Physical Chemistry B, 2003, 107, 8547-8556.	1.2	52
18	Efficient and Robust Hostâ€"Guest Antenna Composite for Light Harvesting. Chemistry of Materials, 2014, 26, 6878-6885.	3.2	45

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19	Hostâ€"Guest Interactions and Orientation of Dyes in the One-Dimensional Channels of Zeolite L. Langmuir, 2013, 29, 9188-9198.	1.6	44
20	Luminescence properties of Ag2S and Ag4S2in zeolite A. Journal of Materials Chemistry, 2003, 13, 1969-1977.	6.7	40
21	Hexagonal Network Organization of Dye-Loaded Zeoliteâ€‰L Crystals by Surface-Tension Driven Autoassembly. Advanced Functional Materials, 2006, 16, 2213-2217.	7.8	40
22	Resorufin in the Channels of Zeolite L. Journal of Physical Chemistry B, 1998, 102, 2923-2929.	1.2	38
23	Supramolecular Organization of Dye Molecules in Zeoliteâ€…L Channels: Synthesis, Properties, and Composite Materials. Chemistry - A European Journal, 2016, 22, 4046-4060.	1.7	33
24	Selective Modification of the Channel Entrances of Zeolite L with Triethoxysilylated Coumarin. Journal of Physical Chemistry B, 2004, 108, 16348-16352.	1.2	32
25	Probing Molecular Order in Zeolite L Inclusion Compounds Using Two-Photon Fluorescence Polarimetric Microscopy. Journal of Physical Chemistry B, 2010, 114, 4192-4198.	1.2	30
26	On the Significance of the Anchoring Group in the Design of Antenna Materials Based on Phthalocyanine Stopcocks and Zeoliteâ€…L. Chemistry - A European Journal, 2011, 17, 1855-1862.	1.7	30
27	Light-harvesting hostâ€"guest antenna materials for quantum solar energy conversion devices. Comptes Rendus Chimie, 2006, 9, 214-225.	0.2	29
28	Selective functionalization of the external surface of zeolite L. Comptes Rendus Chimie, 2005, 8, 391-398.	0.2	27
29	Self-Absorption and Luminescence Quantum Yields of Dye-Zeolite L Composites. Journal of Physical Chemistry C, 2013, 117, 23034-23047.	1.5	25
30	Bimodal mesoporous silica with bottleneck pores. Dalton Transactions, 2015, 44, 17960-17967.	1.6	23
31	Indigo in the nanochannels of zeolite L: Towards a new type of colorant. Dyes and Pigments, 2018, 149, 456-461.	2.0	22
32	Incorporation of a FRET dye pair into mesoporous materials: a comparison of fluorescence spectra, FRET activity and dye accessibility. Analyst, The, 2015, 140, 5324-5334.	1.7	20
33	The role of contact angle and pore width on pore condensation and freezing. Atmospheric Chemistry and Physics, 2020, 20, 9419-9440.	1.9	20
34	Novel phthalocyanine-based stopcock for zeolite L. Chemical Communications, 2008, , 1187.	2.2	18
35	Surprising Properties of a Furoâ€Furanone. Chemistry - A European Journal, 2010, 16, 11289-11299.	1.7	18
36	Influence of the Structural Properties of Mesoporous Silica on the Adsorption of Guest Molecules. Materials, 2010, 3, 4500-4509.	1.3	18

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37	Nanochannel Materials for Quantum Solar Energy Conversion Devices. Chimia, 2007, 61, 820-822.	0.3	17
38	The structure of mesoporous silica obtained by pseudomorphic transformation of SBA-15 and SBA-16. Microporous and Mesoporous Materials, 2018, 257, 232-240.	2.2	17
39	Multiple equilibria describe the complete adsorption isotherms of nonporous, microporous, and mesoporous adsorbents. Microporous and Mesoporous Materials, 2022, 330, 111563.	2.2	17
40	Microspectroscopic analysis of green fluorescent proteins infiltrated into mesoporous silica nanochannels. Journal of Colloid and Interface Science, 2011, 356, 123-130.	5.0	15
41	Nanochannels for Supramolecular Organisation of Dyes. Chimia, 2007, 61, 626-630.	0.3	13
42	Mesoporous Hybrid Materials by Simultaneous Pseudomorphic Transformation and Functionalization of Silica Microspheres. Particle and Particle Systems Characterization, 2015, 32, 243-250.	1.2	13
43	Real-time inline monitoring of zeolite synthesis by Photon Density Wave spectroscopy. Microporous and Mesoporous Materials, 2019, 288, 109580.	2.2	12
44	Synthesis of Subphthalocyanines as Probes for the Accessibility of Silica Nanochannels. Organic Letters, 2011, 13, 4918-4921.	2.4	11
45	Entropy in multiple equilibria. Argon and nitrogen adsorption isotherms of nonporous, microporous, and mesoporous materials. Microporous and Mesoporous Materials, 2021, 312, 110744.	2.2	11
46	Controlling Size and Morphology of Zeolite L. , 2008, , 9-19.		10
47	Functionalized Silicate Nanochannels: Towards Applications in Drug Delivery and Solar Energy Conversion. Chimia, 2009, 63, 8-13.	0.3	10
48	Correlation of Nitrogen Sorption and Confocal Laser Scanning Microscopy for the Analysis of Amino Group Distributions on Mesoporous Silica. Materials, 2011, 4, 1096-1103.	1.3	8
49	A novel^{99m}Tc labelling strategy for the development of silica based particles for medical applications. Dalton Transactions, 2014, 43, 4260-4263.	1.6	8
50	Tuning the aspect ratio of arrays of silica nanochannels. RSC Advances, 2015, 5, 74638-74644.	1.7	8
51	Strategies for Localizing Multiple Functional Groups in Mesoporous Silica Particles through a One-Pot Synthesis. Chemistry of Materials, 2018, 30, 7280-7286.	3.2	8
52	Direct synthesis and fluorescent imaging of bifunctionalized mesoporous iodopropyl-silica. Journal of Colloid and Interface Science, 2010, 345, 200-205.	5.0	6
53	Functionalization of arrays of silica nanochannels by post-condensation. Dalton Transactions, 2016, 45, 14363-14369.	1.6	6
54	Towards 99mTc- and Re-Based Multifunctional Silica Platforms for Theranostic Applications. Inorganics, 2019, 7, 134.	1.2	5

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55	Molecular sieves as host materials for supramolecular organization. Microporous and Mesoporous Materials, 2004, 72, 1-1.	2.2	4
56	Functional Group Distributions on Mesoporous Silica. Chimia, 2011, 65, 250-252.	0.3	4
57	Hollow Silica Cubes with Customizable Porosity. Materials, 2020, 13, 2474.	1.3	4
58	Silica particles with fluorescein-labelled cores for evaluating accessibility through fluorescence quenching by copper. Nanoscale Advances, 2021, 3, 6459-6467.	2.2	4
59	Indigoâ€"A New Tribological Substance Class for Non-Toxic and Ecological Gliding Surfaces on Ice, Snow, and Water. Materials, 2022, 15, 883.	1.3	2
60	Self-organized patterns of microparticles in polymer films. Thin Solid Films, 2011, 519, 3674-3678.	0.8	1
61	Energy-related Chemical Research at the Universities of Applied sciences. Chimia, 2013, 67, 611.	0.3	1
62	Synthesis of Advanced Mesoporous Materials by Partial Pseudomorphic Transformation. Chimia, 2018, 72, 158-159.	0.3	1
63	Inside Front Cover: Hexagonal Network Organization of Dye-Loaded Zeoliteâ€‰L Crystals by Surface-Tension Driven Autoassembly (Adv. Funct. Mater. 17/2006). Advanced Functional Materials, 2006, 16, NA-NA.	7.8	0
64	Photophysical characteristics of green fluorescent proteins embedded in mesoporous silica hosts. , 2010, , .		0