

# Dominik BrÃ¼hwiler

## List of Publications by Year in descending order

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64  
papers

2,425  
citations

201674

27  
h-index

197818

49  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2826  
citing authors

#	ARTICLE	IF	CITATIONS
1	Postsynthetic functionalization of mesoporous silica. <i>Nanoscale</i> , 2010, 2, 887.	5.6	204
2	Synthesis of Zeolite L. Tuning Size and Morphology. <i>Monatshefte für Chemie</i> , 2005, 136, 77-89.	1.8	173
3	Molecular sieves as host materials for supramolecular organization. <i>Microporous and Mesoporous Materials</i> , 2004, 72, 1-23.	4.4	145
4	Nanochannels for supramolecular organization of luminescent guests. <i>Journal of Materials Chemistry</i> , 2009, 19, 8040.	6.7	139
5	Pore condensation and freezing is responsible for ice formation below water saturation for porous particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8184-8189.	7.1	113
6	Controlling and Imaging the Functional Group Distribution on Mesoporous Silica. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6354-6356.	13.8	99
7	Luminescent Silver Sulfide Clusters. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3770-3777.	2.6	94
8	Designing Dye Nanochannel Antenna Hybrid Materials for Light Harvesting, Transport and Trapping. <i>ChemPhysChem</i> , 2011, 12, 580-594.	2.1	90
9	Playing with dye molecules at the inner and outer surface of zeolite L. <i>Solid State Sciences</i> , 2000, 2, 421-447.	3.2	89
10	Spectral-based analysis of thin film luminescent solar concentrators. <i>Solar Energy</i> , 2010, 84, 1366-1369.	6.1	74
11	Dye Modified Nanochannel Materials for Photoelectronic and Optical Devices. <i>Chemistry - A European Journal</i> , 2008, 14, 7442-7449.	3.3	65
12	The Effect of Water on the Functionalization of Mesoporous Silica with 3-Aminopropyltriethoxysilane. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 379-382.	4.6	64
13	Quantum-Sized Silver Sulfide Clusters in Zeolite A. <i>Journal of Physical Chemistry B</i> , 1999, 103, 6397-6399.	2.6	63
14	Distribution of Amino Groups on a Mesoporous Silica Surface after Submonolayer Deposition of Aminopropylsilanes from an Anhydrous Liquid Phase. <i>Journal of Physical Chemistry C</i> , 2007, 111, 923-929.	3.1	62
15	Accessibility of Amino Groups in Postsynthetically Modified Mesoporous Silica. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10667-10674.	3.1	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. <i>Microporous and Mesoporous Materials</i> , 2009, 121, 79-83.	4.4	59
17	Structure of Ni(II) and Ru(III) Ammine Complexes Grafted onto Mesoporous Silicate Sieve. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8547-8556.	2.6	52
18	Efficient and Robust Host-Guest Antenna Composite for Light Harvesting. <i>Chemistry of Materials</i> , 2014, 26, 6878-6885.	6.7	45

#	ARTICLE	IF	CITATIONS
19	Host-Guest Interactions and Orientation of Dyes in the One-Dimensional Channels of Zeolite L. <i>Langmuir</i> , 2013, 29, 9188-9198.	3.5	44
20	Luminescence properties of Ag <sub>2</sub> S and Ag <sub>4</sub> S <sub>2</sub> in zeolite A. <i>Journal of Materials Chemistry</i> , 2003, 13, 1969-1977.	6.7	40
21	Hexagonal Network Organization of Dye-Loaded Zeolite L Crystals by Surface-Tension Driven Autoassembly. <i>Advanced Functional Materials</i> , 2006, 16, 2213-2217.	14.9	40
22	Resorufin in the Channels of Zeolite L. <i>Journal of Physical Chemistry B</i> , 1998, 102, 2923-2929.	2.6	38
23	Supramolecular Organization of Dye Molecules in Zeolite L Channels: Synthesis, Properties, and Composite Materials. <i>Chemistry - A European Journal</i> , 2016, 22, 4046-4060.	3.3	33
24	Selective Modification of the Channel Entrances of Zeolite L with Triethoxysilylated Coumarin. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16348-16352.	2.6	32
25	Probing Molecular Order in Zeolite L Inclusion Compounds Using Two-Photon Fluorescence Polarimetric Microscopy. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4192-4198.	2.6	30
26	On the Significance of the Anchoring Group in the Design of Antenna Materials Based on Phthalocyanine Stopcocks and Zeolite L. <i>Chemistry - A European Journal</i> , 2011, 17, 1855-1862.	3.3	30
27	Light-harvesting host-guest antenna materials for quantum solar energy conversion devices. <i>Comptes Rendus Chimie</i> , 2006, 9, 214-225.	0.5	29
28	Selective functionalization of the external surface of zeolite L. <i>Comptes Rendus Chimie</i> , 2005, 8, 391-398.	0.5	27
29	Self-Absorption and Luminescence Quantum Yields of Dye-Zeolite L Composites. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23034-23047.	3.1	25
30	Bimodal mesoporous silica with bottleneck pores. <i>Dalton Transactions</i> , 2015, 44, 17960-17967.	3.3	23
31	Indigo in the nanochannels of zeolite L: Towards a new type of colorant. <i>Dyes and Pigments</i> , 2018, 149, 456-461.	3.7	22
32	Incorporation of a FRET dye pair into mesoporous materials: a comparison of fluorescence spectra, FRET activity and dye accessibility. <i>Analyst</i> , 2015, 140, 5324-5334.	3.5	20
33	The role of contact angle and pore width on pore condensation and freezing. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9419-9440.	4.9	20
34	Novel phthalocyanine-based stopcock for zeolite L. <i>Chemical Communications</i> , 2008, , 1187.	4.1	18
35	Surprising Properties of a Furofuranone. <i>Chemistry - A European Journal</i> , 2010, 16, 11289-11299.	3.3	18
36	Influence of the Structural Properties of Mesoporous Silica on the Adsorption of Guest Molecules. <i>Materials</i> , 2010, 3, 4500-4509.	2.9	18

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37	Nanochannel Materials for Quantum Solar Energy Conversion Devices. <i>Chimia</i> , 2007, 61, 820-822.	0.6	17
38	The structure of mesoporous silica obtained by pseudomorphic transformation of SBA-15 and SBA-16. <i>Microporous and Mesoporous Materials</i> , 2018, 257, 232-240.	4.4	17
39	Multiple equilibria describe the complete adsorption isotherms of nonporous, microporous, and mesoporous adsorbents. <i>Microporous and Mesoporous Materials</i> , 2022, 330, 111563.	4.4	17
40	Microspectroscopic analysis of green fluorescent proteins infiltrated into mesoporous silica nanochannels. <i>Journal of Colloid and Interface Science</i> , 2011, 356, 123-130.	9.4	15
41	Nanochannels for Supramolecular Organisation of Dyes. <i>Chimia</i> , 2007, 61, 626-630.	0.6	13
42	Mesoporous Hybrid Materials by Simultaneous Pseudomorphic Transformation and Functionalization of Silica Microspheres. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 243-250.	2.3	13
43	Real-time inline monitoring of zeolite synthesis by Photon Density Wave spectroscopy. <i>Microporous and Mesoporous Materials</i> , 2019, 288, 109580.	4.4	12
44	Synthesis of Subphthalocyanines as Probes for the Accessibility of Silica Nanochannels. <i>Organic Letters</i> , 2011, 13, 4918-4921.	4.6	11
45	Entropy in multiple equilibria. Argon and nitrogen adsorption isotherms of nonporous, microporous, and mesoporous materials. <i>Microporous and Mesoporous Materials</i> , 2021, 312, 110744.	4.4	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. <i>Chimia</i> , 2009, 63, 8-13.	0.6	10
48	Correlation of Nitrogen Sorption and Confocal Laser Scanning Microscopy for the Analysis of Amino Group Distributions on Mesoporous Silica. <i>Materials</i> , 2011, 4, 1096-1103.	2.9	8
49	A novel <sup>99m</sup> Tc labelling strategy for the development of silica based particles for medical applications. <i>Dalton Transactions</i> , 2014, 43, 4260-4263.	3.3	8
50	Tuning the aspect ratio of arrays of silica nanochannels. <i>RSC Advances</i> , 2015, 5, 74638-74644.	3.6	8
51	Strategies for Localizing Multiple Functional Groups in Mesoporous Silica Particles through a One-Pot Synthesis. <i>Chemistry of Materials</i> , 2018, 30, 7280-7286.	6.7	8
52	Direct synthesis and fluorescent imaging of bifunctionalized mesoporous iodopropyl-silica. <i>Journal of Colloid and Interface Science</i> , 2010, 345, 200-205.	9.4	6
53	Functionalization of arrays of silica nanochannels by post-condensation. <i>Dalton Transactions</i> , 2016, 45, 14363-14369.	3.3	6
54	Towards <sup>99m</sup> Tc- and Re-Based Multifunctional Silica Platforms for Theranostic Applications. <i>Inorganics</i> , 2019, 7, 134.	2.7	5

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55	Molecular sieves as host materials for supramolecular organization. <i>Microporous and Mesoporous Materials</i> , 2004, 72, 1-1.	4.4	4
56	Functional Group Distributions on Mesoporous Silica. <i>Chimia</i> , 2011, 65, 250-252.	0.6	4
57	Hollow Silica Cubes with Customizable Porosity. <i>Materials</i> , 2020, 13, 2474.	2.9	4
58	Silica particles with fluorescein-labelled cores for evaluating accessibility through fluorescence quenching by copper. <i>Nanoscale Advances</i> , 2021, 3, 6459-6467.	4.6	4
59	Indigo – A New Tribological Substance Class for Non-Toxic and Ecological Gliding Surfaces on Ice, Snow, and Water. <i>Materials</i> , 2022, 15, 883.	2.9	2
60	Self-organized patterns of microparticles in polymer films. <i>Thin Solid Films</i> , 2011, 519, 3674-3678.	1.8	1
61	Energy-related Chemical Research at the Universities of Applied sciences. <i>Chimia</i> , 2013, 67, 611.	0.6	1
62	Synthesis of Advanced Mesoporous Materials by Partial Pseudomorphic Transformation. <i>Chimia</i> , 2018, 72, 158-159.	0.6	1
63	Inside Front Cover: Hexagonal Network Organization of Dye-Loaded Zeolite – L Crystals by Surface-Tension Driven Autoassembly ( <i>Adv. Funct. Mater.</i> 17/2006). <i>Advanced Functional Materials</i> , 2006, 16, NA-NA.	14.9	0
64	Photophysical characteristics of green fluorescent proteins embedded in mesoporous silica hosts. , 2010, , .		0