

Bernd Marler

List of Publications by Year in descending order

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107
papers

4,404
citations

109321

35
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63
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109
all docs

109
docs citations

109
times ranked

3696
citing authors

#	ARTICLE	IF	CITATIONS
1	The Elusive Structure of Magadiite, Solved by 3D Electron Diffraction and Model Building. <i>Chemistry of Materials</i> , 2021, 33, 3207-3219.	6.7	24
2	The crystal structure of synthetic kenyaite, Na ₂ Si ₂₀ O ₄₀ (OH) ₂ ·8H ₂ O. <i>Journal of Solid State Chemistry</i> , 2021, 300, 122215.	2.9	8
3	The effect of trivalent framework heteroatoms in Cu-CHA on the Selective Catalytic Reduction of NO. <i>Applied Catalysis A: General</i> , 2021, 626, 118326.	4.3	1
4	Alteration and curing of framework defects by heating different as-made silica zeolites of the MFI framework type. <i>Microporous and Mesoporous Materials</i> , 2020, 291, 109683.	4.4	11
5	Two new members of the Silica-X family of materials: RUB-5, a silica zeolite with a very high framework density and RUB-6, a hydrous layer silicate. <i>Microporous and Mesoporous Materials</i> , 2020, 296, 109981.	4.4	8
6	A Cationic Oligomer as an Organic Template for Direct Synthesis of Aluminosilicate ITH Zeolite. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15649-15655.	13.8	22
7	A Cationic Oligomer as an Organic Template for Direct Synthesis of Aluminosilicate ITH Zeolite. <i>Angewandte Chemie</i> , 2020, 132, 15779-15785.	2.0	1
8	Cu-Exchanged CHA-Type Zeolite from Organic Template-Free Synthesis: An Effective Catalyst for NH ₃ -SCR. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7375-7382.	3.7	22
9	New zeolite-like RUB-5 and its related hydrous layer silicate RUB-6 structurally characterized by electron microscopy. <i>IUCr</i> , 2020, 7, 522-534.	2.2	15
10	The structure of PREFER, the layered precursor of silica-ferrierite, in its as-made, (C ₉ H ₂₁ N ₂) ₄ [Si ₃₆ O ₇₂ (OH) ₄] [*] 8 H ₂ O, and dehydrated form, (C ₉ H ₂₁ N ₂) ₄ [Si ₃₆ O ₇₂ (OH) ₄]. <i>Microporous and Mesoporous Materials</i> , 2019, 288, 109597.	4.4	0
11	Direct Synthesis of Aluminosilicate IWR Zeolite from a Strong Interaction between Zeolite Framework and Organic Template. <i>Journal of the American Chemical Society</i> , 2019, 141, 18318-18324.	13.7	30
12	Transformation synthesis of aluminosilicate SSZ-39 zeolite from ZSM-5 and beta zeolite. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4420-4425.	10.3	52
13	Recent advances in the preparation of zeolites for the selective catalytic reduction of NO _x in diesel engines. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 975-985.	3.7	35
14	<i>Ab initio</i> structure determination and quantitative disorder analysis on nanoparticles by electron diffraction tomography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, 93-101.	0.1	17
15	Die lokale Oberflächenstruktur und -zusammensetzung bestimmt die Wasserstoffentwicklung an Eisen-Nickelsulfiden. <i>Angewandte Chemie</i> , 2018, 130, 4157-4161.	2.0	10
16	Local Surface Structure and Composition Control the Hydrogen Evolution Reaction on Iron Nickel Sulfides. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4093-4097.	13.8	104
17	Influence of the Fe:Ni Ratio and Reaction Temperature on the Efficiency of (Fe _x Ni _{1-x}) ₉ S ₈ Electrocatalysts Applied in the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2018, 8, 987-996.	11.2	134
18	Efficient and rapid transformation of high silica CHA zeolite from FAU zeolite in the absence of water. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9076-9080.	10.3	71

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19	P-V-T behavior of FeO(OH) and MnO(OH). <i>Physics and Chemistry of Minerals</i> , 2017, 44, 567-576.	0.8	11
20	3. Natural and synthetic zeolites. , 2017, , 41-72.		0
21	Structure and properties of ITQ-8: a hydrous layer silicate with microporous silicate layers. <i>Dalton Transactions</i> , 2016, 45, 10155-10164.	3.3	6
22	Structure Analysis in Zeolite Research: From Framework Topologies to Functional Properties. <i>Green Chemistry and Sustainable Technology</i> , 2016, , 187-230.	0.7	0
23	Considerations on the symmetry of pure silica ITQ-7 zeolite (ISV) derived from ²⁹ Si MAS NMR and Rietveld analysis. <i>Microporous and Mesoporous Materials</i> , 2016, 219, 306-310.	4.4	0
24	Crystal structure analyses of two TMA silicates with ordered defects: RUB-20, a layered zeolite precursor, and RUB-22, a microporous framework silicate. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2015, 230, 243-262.	0.8	9
25	Multifunctional, Defect-Engineered Metal-Organic Frameworks with Ruthenium Centers: Sorption and Catalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7058-7062.	13.8	237
26	Topotactic condensation of layer silicates with ferrierite-type layers forming porous tectosilicates. <i>Dalton Transactions</i> , 2014, 43, 10396-10416.	3.3	39
27	Mn ²⁺ -cation-directed ionothermal synthesis of an open-framework fluorinated aluminium phosphite-phosphate. <i>RSC Advances</i> , 2014, 4, 29310.	3.6	4
28	CO Adsorption on a Mixed-Valence Ruthenium Metal-Organic Framework Studied by UHV-FTIR Spectroscopy and DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5658-5666.	3.1	48
29	High-Pressure Water Intrusion Investigation of Pure Silica ITQ-7 Zeolite. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4098-4103.	3.1	30
30	RUB-55, a new hydrous layer silicate with silicate layers known as motives of the sodalite and octadecasil frameworks: Synthesis and crystal structure. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2012, 227, 427-437.	0.8	10
31	Experimentally Determined Standard Thermodynamic Properties of Synthetic MgSO ₄ ·4H ₂ O (Starkeyite) and MgSO ₄ ·3H ₂ O: A Revised Internally Consistent Thermodynamic Data Set for Magnesium Sulfate Hydrates. <i>Astrobiology</i> , 2012, 12, 1042-1054.	3.0	21
32	Co-templating ionothermal synthesis and structure characterization of two new 2D layered aluminophosphates. <i>Dalton Transactions</i> , 2012, 41, 12408.	3.3	24
33	Hydrous layer silicates as precursors for zeolites obtained through topotactic condensation: a review. <i>European Journal of Mineralogy</i> , 2012, 24, 405-428.	1.3	128
34	High-Pressure Water Intrusion Investigation of Pure Silica RUB-41 and S-SOD Zeolite Materials. <i>Journal of Physical Chemistry C</i> , 2011, 115, 425-430.	3.1	42
35	Synthesis, characterization and structure analysis of UZM-22, a MEI-type zeolite framework structure. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 43-53.	4.4	12
36	Ionothermal synthesis and crystal structure of a new layered nickel(II) diphosphate, DRM-1. <i>Inorganic Chemistry Communication</i> , 2010, 13, 1357-1360.	3.9	7

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37	X-ray powder diffraction of synthetic Al-rich phlogopites: lattice parameters, polytypes, stacking faults, and implication of modulations. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2009, 65, s175-s175.	0.3	0
38	Formation of clathrasil layers by secondary growth of DOH-type nuclei for gas separation applications. <i>Microporous and Mesoporous Materials</i> , 2008, 115, 3-10.	4.4	10
39	Water and Cation Distribution in Fully and Partially Hydrated Li-LSX Zeolite. <i>Chemistry of Materials</i> , 2008, 20, 5968-5976.	6.7	44
40	A New Layered Silicate with Structural Motives of Silicate Zeolites: Synthesis, Crystals Structure, and Properties. <i>Chemistry of Materials</i> , 2008, 20, 1896-1901.	6.7	40
41	Synthesis and general characterisation of RUB-22: A new micro-porous silicate possessing an interrupted framework structure. <i>Studies in Surface Science and Catalysis</i> , 2007, 170, 199-205.	1.5	4
42	The disordered structure of silica zeolite EU-20b, obtained by topotactic condensation of the piperazinium containing layer silicate EU-19. <i>Microporous and Mesoporous Materials</i> , 2006, 90, 87-101.	4.4	87
43	The structure of the new pure silica zeolite RUB-24, Si ₃₂ O ₆₄ , obtained by topotactic condensation of the intercalated layer silicate RUB-18. <i>Microporous and Mesoporous Materials</i> , 2005, 83, 201-211.	4.4	119
44	Synthesis of ITQ-7 with a new template molecule and its crystal structure analysis in the as synthesized form. <i>Comptes Rendus Chimie</i> , 2005, 8, 341-352.	0.5	12
45	Synthesis and Crystal Structure of Zeolite RUB-41 Obtained as Calcination Product of a Layered Precursor: A Systematic Approach to a New Synthesis Route. <i>Chemistry of Materials</i> , 2005, 17, 43-49.	6.7	158
46	Two polymorphs of a tetramethylammonium zincophosphate with diamond net-related frameworks containing [H ₃ O ₄ (P) ₄] hydroxyl nests: solution-mediated and mechanochemical phase transformations and crystal structures. <i>Solid State Sciences</i> , 2004, 6, 213-223.	3.2	14
47	Two Polymorphs of a Tetramethylammonium Zincophosphate with Diamond Net-Related Frameworks Containing [H ₃ O ₄ (P) ₄] Hydroxyl Nests: Solution-Mediated and Mechanochemical Phase Transformations and Crystal Structures.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
48	Synthesis and structure of RUB-35, a disordered material of the EUO-NES-NON family. <i>Microporous and Mesoporous Materials</i> , 2003, 64, 185-201.	4.4	11
49	Synthesis and Crystal Structure of a New Fluorogallophosphate Named Mu-12. <i>Chemistry of Materials</i> , 2003, 15, 2614-2622.	6.7	5
50	POLYHEDRON DISTORTIONS IN TOURMALINE. <i>Canadian Mineralogist</i> , 2002, 40, 153-162.	1.0	104
51	Synthetic tourmaline (olenite) with excess boron replacing silicon in the tetrahedral site: II. Structure analysis. <i>European Journal of Mineralogy</i> , 2002, 14, 763-771.	1.3	33
52	The crystal structure determination of the crystalline layered silicic acid H-RUB-18. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2002, 217, 233-241.	0.8	22
53	Nuclear magnetic resonance and infrared spectroscopic study of excess-boron olenite from Koralpe, Styria, Austria. <i>American Mineralogist</i> , 2002, 87, 364-367.	1.9	27
54	Ab initio crystal structure determination of Na ₂ Si ₃ O ₇ from conventional powder diffraction data. <i>Solid State Sciences</i> , 2002, 4, 1285-1292.	3.2	13

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55	Structure and properties of the composite zeolite silica-ZSM-12/para-nitroaniline. <i>Microporous and Mesoporous Materials</i> , 2002, 56, 11-25.	4.4	29
56	Mu-13: a new AlPO ₄ prepared with 4,13-diaza-18-crown-6 as a structuring agent. <i>Microporous and Mesoporous Materials</i> , 2001, 42, 177-189.	4.4	20
57	Synthesis and structure of pure silica-RUB-10 (structure type: RUT) obtained with pyrrolidine as the structure directing agent. <i>Microporous and Mesoporous Materials</i> , 2001, 43, 329-340.	4.4	20
58	Synthesis and characterization of the new microporous gallophosphate Mu-8. <i>Microporous and Mesoporous Materials</i> , 2000, 39, 509-517.	4.4	15
59	Pyrrolidine silica sodalite and ethylamine silica sodalite – two new silica sodalite materials synthesized from different solid silica sources. <i>Microporous and Mesoporous Materials</i> , 2000, 39, 549-562.	4.4	23
60	Title is missing!. <i>Journal of Materials Science</i> , 2000, 35, 2965-2972.	3.7	10
61	Synthetic tourmaline (olenite) with excess boron replacing silicon in the tetrahedral site: I. Synthesis conditions, chemical and spectroscopic evidence. <i>European Journal of Mineralogy</i> , 2000, 12, 529-541.	1.3	53
62	Synthesis and characterization of Mu-11: a porous sodium trisilicate Na ₂ Si ₃ O ₇ ·H ₂ O with 10-membered ring openings. <i>Solid State Sciences</i> , 2000, 2, 209-216.	0.7	7
63	Synthesis and structure of Mu-10: a novel microporous hydroxyaluminophosphate (CH ₃) ₂ NH ₂ ·Al ₃ P ₃ O ₁₂ OH closely related to AlPO ₄ -EN3. <i>Solid State Sciences</i> , 1999, 1, 37-53.	3.2	12
64	Quinuclidine derivatives as structure directing agents for the synthesis of boron containing zeolites. <i>Journal of Materials Chemistry</i> , 1999, 9, 2529-2536.	6.7	27
65	Transmission electron microscopic and small angle X-ray diffraction investigations of Au ₅₅ (PPh ₃) ₁₂ Cl ₆ microcrystals. <i>Chemical Communications</i> , 1999, , 1303-1304.	4.1	42
66	Structure solution from powder data of the hydrous layer silicate kanemite, a precursor of the industrial ion exchanger SKS-6. <i>European Journal of Mineralogy</i> , 1999, 11, 125-134.	1.3	59
67	New structures – new insights: Progress in structure analysis of nanoporous materials. <i>Microporous and Mesoporous Materials</i> , 1998, 21, 183-197.	4.4	47
68	The diaza-polyoxa-macrocyclic 'Kryptofix222' as a new template for the synthesis of LTA-type AlPO ₄ . <i>Microporous and Mesoporous Materials</i> , 1998, 22, 87-106.	4.4	39
69	Synthesis and characterization of the microporous silica phase RUB-3 (RTE). <i>Microporous and Mesoporous Materials</i> , 1998, 26, 37-48.	4.4	5
70	Structure refinement of the as-synthesized and the calcined form of zeolite RUB-3 (RTE). <i>Microporous and Mesoporous Materials</i> , 1998, 26, 49-59.	4.4	19
71	Synthesis and structure of the new gallophosphate Mu-6 containing a gallium organic complex as part of the framework. <i>European Journal of Solid State and Inorganic Chemistry</i> , 1998, 35, 389-403.	0.5	24
72	Synthesis and characterization of the new microporous fluorogallophosphate Mu-2 with a novel framework topology. <i>Chemical Communications</i> , 1998, , 1769-1770.	4.1	27

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73	A new layered (alumino) silicate and its transformation into a FER-type material by calcination. Studies in Surface Science and Catalysis, 1997, , 1949-1956.	1.5	10
74	Synthesis, Structure Analysis, and Characterization of a New Thiostannate, (C ₁₂ H ₂₅ NH ₃) ₄ [Sn ₂ S ₆] \cdot 2H ₂ O. Inorganic Chemistry, 1997, 36, 4697-4701.	4.0	73
75	Synthesis, structure, thermodynamic properties, and stability relations of K-cymrite, K[AlSi ₃ O ₈] \cdot H ₂ O. Physics and Chemistry of Minerals, 1997, 24, 455-462.	0.8	36
76	Ge-analogues of aluminium silicates: High-pressure synthesis and properties of orthorhombic Al ₂ GeO ₄ (OH) ₂ . European Journal of Mineralogy, 1997, 9, 1147-1158.	1.3	11
77	Synthesis and properties of boron containing MCM-41. Journal of Non-Crystalline Solids, 1996, 197, 145-153.	3.1	34
78	Synthesis and characterisation of the novel GIS-type AlPO ₄ : [NH ₂ Me ₂][Al ₂ P ₂ O ₈ F]. Chemical Communications, 1996, , 1293.	4.1	43
79	The structure of the low temperature (20 K) form of zeolite ZSM-11 derived from ²⁹ Si MAS NMR spectroscopy, lattice energy minimization and Rietveld refinement. Zeitschrift Fur Kristallographie - Crystalline Materials, 1996, 211, 221-227.	0.8	16
80	A Layer Silicate: Synthesis and Structure of the Zeolite Precursor RUB-15 [N(CH ₃) ₄] ₈ [Si ₂₄ O ₅₂ (OH) ₄] \cdot 20 H ₂ O. Angewandte Chemie International Edition in English, 1996, 35, 2869-2872.	4.4	91
81	Influence of the sorbate type on the XRD peak intensities of loaded MCM-41. Microporous Materials, 1996, 6, 375-383.	1.6	344
82	Synthesis and characterization of a new gallophosphate (Mu-1) containing cobalticinium cations. Microporous Materials, 1996, 7, 89-95.	1.6	32
83	PREFER: a new layered (alumino) silicate precursor of FER-type zeolite. Microporous Materials, 1996, 6, 259-271.	1.6	225
84	Synthesis and characterization of boron containing MCM-41. Studies in Surface Science and Catalysis, 1995, 98, 17-18.	1.5	9
85	Synthesis and crystal structures of the decasils, a new family of porosils. Studies in Surface Science and Catalysis, 1995, 98, 38-39.	1.5	0
86	The crystal structure of the new boron containing zeolite RUB-13. Studies in Surface Science and Catalysis, 1995, 98, 262-263.	1.5	3
87	A tangent formula derived from Patterson-function arguments. III. Structure determination of zeolitic and layered materials from low-resolution powder diffraction data. Acta Crystallographica Section A: Foundations and Advances, 1995, 51, 840-845.	0.3	16
88	Synthesis and crystal structure of the new borosilicate zeolite RUB-13. Microporous Materials, 1995, 4, 111-121.	1.6	74
89	Decasils, a new order-disorder family of microporous silicas. Zeolites, 1995, 15, 388-399.	0.5	32
90	Crystal structure of a novel porous MeAPO phase: ZAPO-M1, {N(CH ₃) ₄ } ₈ [Zn ₈ Al ₂₄ P ₃₂ O ₁₂₈]. Microporous Materials, 1995, 5, 151-159.	1.6	27

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91	Single crystal structure analysis of nonasil(pyr), (C ₄ H ₁₀ N) ₄ [Si ₈ 4B ₄ O ₁₇₆]. Zeolites, 1995, 15, 517-525.	0.5	18
92	Zeolite Nu-1 prepared from near-neutral fluoride aluminosilicate gels. Studies in Surface Science and Catalysis, 1995, 98, 5-6.	1.5	0
93	Powder X-ray diffraction and solid state NMR techniques for zeolite structure determination. Studies in Surface Science and Catalysis, 1995, 94, 78-100.	1.5	8
94	A layered microporous aluminosilicate precursor of FER-type zeolite. Journal of the Chemical Society Chemical Communications, 1995, , 2187.	2.0	62
95	Rub-10, a boron containing analogue of zeolite Nu-1.. Studies in Surface Science and Catalysis, 1994, 84, 435-443.	1.5	6
96	Synthesis and characterization of zeolite Nu-1 prepared from near-neutral fluoride aluminosilicate gels. Zeolites, 1994, 14, 675-681.	0.5	14
97	Rietveld refinement of the crystal structure of the synthetic porous zincosilicate VPI-7. Zeolites, 1994, 14, 498-503.	0.5	39
98	The structure of zeolite ZSM-23 (MTT) refined from synchrotron X-ray powder data. Journal of Applied Crystallography, 1993, 26, 636-644.	4.5	32
99	The structure-controlling role of organic templates for the synthesis of porosils in the systems SiO ₂ /template/H ₂ O. Zeolites, 1992, 12, 42-49.	0.5	285
100	The combination of synchrotron powder diffraction and high-resolution solid-state NMR experiments. Journal of Physics and Chemistry of Solids, 1991, 52, 1235-1241.	4.0	29
101	Crystal structure of silica-ZSM-12 by the combined use of high-resolution solid-state MAS NMR spectroscopy and synchrotron x-ray powder diffraction. The Journal of Physical Chemistry, 1990, 94, 3718-3721.	2.9	128
102	Multitechnique Analysis of The Lattice Structures of Highly Siliceous Zeolites. Studies in Surface Science and Catalysis, 1989, , 545-557.	1.5	2
103	On the Relationship between Refractive Index and Density for SiO ₂ -polymorphs. Physics and Chemistry of Minerals, 1988, 16, 286.	0.8	49
104	Long-chain polyamines and amine-boric acid pairs as templates for the synthesis of porous tectosilicates. Zeolites, 1988, 8, 127-131.	0.5	26
105	Silica-ZSM-22: synthesis and single crystal structure refinement. Zeolites, 1987, 7, 393-397.	0.5	88
106	Classification of tectosilicates and systematic nomenclature of clathrate type tectosilicates: a proposal. Zeolites, 1986, 6, 373-377.	0.5	87
107	Studies on clathrasils VIII. Nonasils-[4158], 8SiO ₂ · 1/2 8M8 · 1/2 8M9 · 1/2 4M20: Synthesis, thermal properties, and crystal structure. Journal of Inclusion Phenomena, 1986, 4, 339-349.	0.6	46