

# Michael Fechtelkord

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8108973/publications.pdf>

Version: 2024-02-01

33  
papers

1,159  
citations

567281

15  
h-index

434195

31  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1416  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal Chemistry and Stability of $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Garnet: A Fast Lithium-Ion Conductor. <i>Inorganic Chemistry</i> , 2011, 50, 1089-1097.	4.0	600
2	The effect of fluorine, boron and phosphorus on the viscosity of pegmatite forming melts. <i>Chemical Geology</i> , 2013, 346, 184-198.	3.3	74
3	Synthesis, X-ray diffraction and MAS NMR characteristics of nitrate cancrinite $\text{Na}_{7.6}[\text{AlSiO}_4]_6(\text{NO}_3)_{1.6}(\text{H}_2\text{O})_2$ . <i>Journal of Alloys and Compounds</i> , 2000, 305, 93-102.	5.5	71
4	Synthesis and crystal structure of carbonate cancrinite $\text{Na}_8[\text{AlSiO}_4]_6\text{CO}_3(\text{H}_2\text{O})_{3.4}$ , grown under low-temperature hydrothermal conditions. <i>Microporous and Mesoporous Materials</i> , 1999, 30, 347-358.	4.4	57
5	Influence of Sodium Ion Dynamics on the $^{23}\text{Na}$ Quadrupolar Interaction in Sodalite: A High-Temperature $^{23}\text{Na}$ MAS NMR Study. <i>Solid State Nuclear Magnetic Resonance</i> , 2000, 18, 70-88.	2.3	27
6	Influence of F content on the composition of Al-rich synthetic phlogopite: Part II. Probing the structural arrangement of aluminum in tetrahedral and octahedral layers by $^{27}\text{Al}$ MQMAS and $^1\text{H}$ , $^{19}\text{F}$ , $^{27}\text{Al}$ HETCOR and REDOR experiments. <i>American Mineralogist</i> , 2003, 88, 1046-1054.	1.9	27
7	Structure and catalytic properties of MgO-supported vanadium oxide in the selective oxidation of cyclohexane. <i>Journal of Molecular Catalysis A</i> , 2010, 318, 51-59.	4.8	24
8	The formation of unusually twofold coordinated boron in a sodalite matrix. <i>Journal of Alloys and Compounds</i> , 1997, 257, 168-174.	5.5	21
9	Water- and boron speciation in hydrous soda-lime-borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2015, 423-424, 58-67.	3.1	21
10	Structural study of $\text{Na}_8[\text{AlSiO}_4]_6(\text{CO}_3)_x(\text{HCOO})_{2x}(\text{H}_2\text{O})_{4x}$ , $0.2 \leq x \leq 1$ , synthesized in organic solvents: order and disorder of carbonate and formate anions in sodalite. <i>Microporous and Mesoporous Materials</i> , 1999, 28, 335-351.	4.4	20
11	Proton Dynamics in Letovicite, $(\text{NH}_4)_3\text{H}(\text{SO}_4)_2$ : A $^1\text{H}$ and $^{14}\text{N}$ NMR Spectroscopic Study. <i>Solid State Nuclear Magnetic Resonance</i> , 2000, 17, 76-88.	2.3	19
12	Influence of F content on the composition of Al-rich synthetic phlogopite: Part I. New information on structure and phase-formation from $^{29}\text{Si}$ , $^1\text{H}$ , and $^{19}\text{F}$ MAS NMR spectroscopies. <i>American Mineralogist</i> , 2003, 88, 47-53.	1.9	19
13	Crystal structure and stability of $\text{Na}_2\text{ThF}_6$ at non-ambient conditions. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 266219.	1.8	18
14	Characterization of synthetic Cs-Li cancrinite grown in a butanediol-water system: An NMR spectroscopic and Rietveld refinement study. <i>American Mineralogist</i> , 2001, 86, 881-888.	1.9	17
15	Synthesis of Basic Cancrinite in a Butanediol-Water System. <i>Chemistry of Materials</i> , 2001, 13, 1967-1975.	6.7	16
16	Crystallization kinetics of $\text{Na}_{7.4}(\text{AlSiO}_4)_6(\text{CO}_3)_{0.7} \cdot 4\text{H}_2\text{O}$ , an intermediate phase between cancrinite and sodalite, grown under low temperature hydrothermal conditions. <i>Reaction Kinetics and Catalysis Letters</i> , 1998, 65, 33-39.	0.6	15
17	Characterization of basic cancrinite synthesized in a butanediol-water system. <i>European Journal of Mineralogy</i> , 2003, 15, 589-598.	1.3	15
18	On the mechanisms of apophyllite alteration in aqueous solutions. A combined AFM, XPS and MAS NMR study. <i>Clays and Clay Minerals</i> , 2004, 52, 432-442.	1.3	14

#	ARTICLE	IF	CITATIONS
19	Title is missing!. Reaction Kinetics and Catalysis Letters, 2000, 69, 15-21.	0.6	12
20	On the synthesis of nitrate enclathrated sodalite in organic solvents. Zeolites, 1997, 19, 334-342.	0.5	11
21	NMR-spectroscopic study of $^{207}\text{Pb}$ in pure and barium diluted lead phosphate. Solid State Nuclear Magnetic Resonance, 1998, 11, 231-241.	2.3	10
22	Aluminum ordering and clustering in Al-rich synthetic phlogopite: $^{29}\text{Si}$ CPMAS HETCOR spectroscopy and atomistic calculations. American Mineralogist, 2012, 97, 341-352.	1.9	10
23	Isomorphy of structural phase transitions in $\text{LiTaOSiO}_4$ , $\text{LiTaOGeO}_4$ and titanite, $\text{CaTiOSiO}_4$ . Journal of Solid State Chemistry, 2004, 177, 3254-3262.	2.9	9
24	Structural variations in the solid solution series of sodalite-type $[(\text{Eu}_x \text{Ca}_{2-x})_4(\text{OH})_8] \cdot [( \text{Al}_{2+x} \text{Si}_{1-x})_T] \text{ETQq}000 \text{rgBT}$ . Zeitschrift Fur Kristallographie - Crystalline Materials, 2006, 221, 643-648.	0.8	8
25	Non-framework aluminium in highly dealuminated $\gamma$ zeolites generated by steaming or substitution. Studies in Surface Science and Catalysis, 1997, 105, 439-446.	1.5	7
26	Proton dynamics in letovicite: Part I. Static $^1\text{H}$ and $^{15}\text{N}$ NMR MAS experiments and lineshape simulations. American Mineralogist, 2007, 92, 1821-1826.	1.9	4
27	Phosphoryl Triamide Polymers Revisited: Identification of Structural Units with ESI-MS/MS and Solid State NMR. Journal of Inorganic and Organometallic Polymers and Materials, 2008, 18, 272-276.	3.7	4
28	Aluminum ordering and clustering in Al-rich synthetic phlogopite: The influence of fluorine investigated by $^{29}\text{Si}$ CPMAS NMR spectroscopy. American Mineralogist, 2013, 98, 120-131.	1.9	4
29	Aluminium ordering and clustering in synthetic phlogopite: OH/F influence on the Al-content of phlogopite studied by NMR spectroscopy. European Journal of Mineralogy, 2012, 24, 798-814.	1.3	3
30	Proton dynamics in letovicite: Part II. Static $^2\text{H}$ NMR experiments and lineshape simulations. American Mineralogist, 2007, 92, 1827-1832.	1.9	1
31	Title is missing!. Reaction Kinetics and Catalysis Letters, 2002, 76, 3-9.	0.6	0
32	The 7th European Conference on Mineralogy and Spectroscopy. European Journal of Mineralogy, 2012, 24, 775-776.	1.3	0
33	Solid-state nuclear magnetic resonance investigation of synthetic phlogopite and lepidolite samples. Magnetic Resonance in Chemistry, 2020, 58, 1099-1108.	1.9	0