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List of Publications by Year
in descending order

Version: 2024-02-01

40 papers	667 citations	516710 16 h-index	610901 24 g-index
40 all docs	40 docs citations	40 times ranked	782 citing authors

#	Article	IF	Citations
1	Nitridic Analogs of Micas AESi3P4N10(NH)2 (AE = Mg, Mg0.94Ca0.06, Ca, Sr). Angewandte Chemie, 2022, 134, e202114902.	2.0	4
2	Nitridic Analogs of Micas AESi₃P₄N₁₀(NH)₂ (AE=Mg, Mg_{0.94}Ca_{0.06}, Ca, Sr). Angewandte Chemie - International Edition, 2022, 61, e202114902.	13.8	11
3	Quantifying the quadrupolar interaction by 45Sc-NMR spectroscopy of single crystals. Solid State Nuclear Magnetic Resonance, 2022, 117, 101775.	2.3	1
4	Supertetrahedral anions in the phosphidosilicates Na1.25Ba0.875Si3P5 and Na31Ba5Si52P83. Dalton Transactions, 2021, 50, 9123-9128.	3.3	0
5	Investigation of Structural Changes of Cu(I) and Ag(I) Complexes Utilizing a Flexible, Yet Sterically Demanding Multidentate Phosphine Oxide Ligand. Inorganic Chemistry, 2021, 60, 2437-2445.	4.0	12
6	Synthesis of the scandium chloride hydrates ScCl₃Â·3H₂O and Sc₂Cl₄(OH)₂Â·12H₂O and their characterisation by X-ray diffraction, ⁴⁵Sc NMR spectroscopy and DFT calculations. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2021, 76, 217-225.	0.7	3
7	Relationship between 207Pb NMR chemical shift and the morphology and crystal structure for the apatites Pb5(AO4)3Cl, vanadinite (A = V), pyromorphite (A = P), and mimetite (A = As). American Mineralogist, 2021, 106, 541-548.	1.9	3
8	Characterisation of contact twinning for cerussite, $$hbox {PbCO}_3$$, by single-crystal NMR spectroscopy. Physics and Chemistry of Minerals, 2021, 48, 1.	0.8	1
9	Local Electronic Structure in AlN Studied by Single-Crystal 27Al and 14N NMR and DFT Calculations. Molecules, 2020, 25, 469.	3.8	10
10	Single-Crystal 31P and 7Li NMR of the Ionic Conductor LiH2PO4. Crystals, 2020, 10, 302.	2.2	1
11	Determination of the Full 207Pb Chemical Shift Tensor of Anglesite, PbSO4, and Correlation of the Isotropic Shift to Leadâ€“Oxygen Distance in Natural Minerals. Crystals, 2019, 9, 43.	2.2	9
12	Single-crystal 207Pb-NMR of wulfenite, PbMoO4, aided by simultaneous measurement of phosgenite, Pb2Cl2CO3. Solid State Nuclear Magnetic Resonance, 2019, 103, 17-24.	2.3	4
13	NMR interaction tensors of 51V and 207Pb in vanadinite, Pb5(VO4)3Cl, determined from DFT calculations and single-crystal NMR measurements, using only one general rotation axis. Solid State Nuclear Magnetic Resonance, 2018, 89, 11-20.	2.3	9
14	Ammonothermal Synthesis of EAMO₂N (EA = Sr, Ba; M = Nb, Ta) Perovskites and ¹⁴N Solidâ€State NMR Spectroscopic Investigations of AM(O,N)₃ (A = Ca, Sr, Ba, La). European Journal of Inorganic Chemistry, 2018, 2018, 5019-5026.	2.0	17
15	An unusual nitride network of aluminum-centered octahedra and phosphorus-centered tetrahedra and structure determination from microcrystalline samples. Chemical Communications, 2017, 53, 2709-2712.	4.1	11
16	Li₄₇B₃P₁₄N₄₂â€”A Lithium Nitridoborophosphate with [P₃N₉]^{12â^’}, [P₄N₁₀]^{10â^’}, and the Unprecedented [B₃P₃N₁₃]^{15â^’} Ion. Angewandte Chemie, 2017, 129, 4884-4887.	2.0	14
17	Li₄₇B₃P₁₄N₄₂â€”A Lithium Nitridoborophosphate with [P₃N₉]^{12â^’}, [P₄N₁₀]^{10â^’}, and the Unprecedented [B₃P₃N₁₃]^{15â^’} Ion. Angewandte Chemie - International Edition, 2017, 56, 4806-4809.	13.8	16
18	Determination of the ³¹P and ²⁰⁷Pb Chemical Shift Tensors in Pyromorphite, Pb₅(PO₄)₃Cl, by Singleâ€Crystal NMR Measurements and DFT Calculations. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1635-1641.	1.2	7

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19	Synthesis and densification of single-phase mayenite (C12A7). Journal of the European Ceramic Society, 2016, 36, 4237-4241.	5.7	18
20	Local Electronic Structure in Î³-LiAlO₂ Studied by Single-Crystal ²⁷Al NMR and DFT Calculations. Journal of Physical Chemistry A, 2016, 120, 7839-7846.	2.5	8
21	A 45 Sc-NMR and DFT calculation study of crystalline scandium compounds. Solid State Sciences, 2016, 51, 1-7.	3.2	22
22	â€œJob-Sharingâ€•Storage of Hydrogen in Ru/Li₂O Nanocomposites. Nano Letters, 2015, 15, 4170-4175.	9.1	36
23	Solidâ€state NMR Spectroscopy of Quadrupolar Nuclei in Inorganic Chemistry. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 857-879.	1.2	55
24	Full differentiation and assignment of boron species in the electrolytes Li2B6O9F2 and Li2B3O4F3 by solid-state 11B NMR spectroscopy. Journal of Solid State Chemistry, 2012, 194, 245-249.	2.9	21
25	Enhancing the central-transition NMR signal of quadrupolar nuclei by spin population transfer using SW-FAM pulse trains with a tangent-shaped sweep profile. Solid State Nuclear Magnetic Resonance, 2012, 45-46, 16-22.	2.3	6
26	19F-decoupling of half-integer spin quadrupolar nuclei in solid-state NMR: Application of frequency-swept decoupling methods. Solid State Nuclear Magnetic Resonance, 2011, 40, 84-87.	2.3	11
27	NMR Chemical Shift and Quadrupolar Interaction Parameters of Carbonâ€Coordinated ²⁷Al in Aluminium Carbide, Al₄C₃. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 530-535.	1.2	23
28	Improving sensitivity and resolution of MQMAS spectra: A 45 Sc-NMR case study of scandium sulphate pentahydrate. Journal of Magnetic Resonance, 2010, 203, 226-235.	2.1	20
29	Frequency-swept pulse sequences for 19F heteronuclear spin decoupling in solid-state NMR. Journal of Magnetic Resonance, 2010, 206, 255-263.	2.1	16
30	Efficient heteronuclear dipolar decoupling in solid-state NMR using frequency-swept SPINAL sequences. Journal of Magnetic Resonance, 2009, 200, 226-232.	2.1	28
31	Sweptâ€frequency twoâ€pulse phase modulation (SW_fâ€TPPM) sequences with linear sweep profile for heteronuclear decoupling in solidâ€state NMR. Magnetic Resonance in Chemistry, 2008, 46, 943-947.	1.9	65
32	Fast amplitude-modulated pulse trains with frequency sweep (SW-FAM) in solid-state NMR of spin-7/2 nuclei. Journal of Magnetic Resonance, 2008, 193, 102-109.	2.1	10
33	Fast amplitude-modulated pulse trains with frequency sweep (SW-FAM) in static NMR of half-integer spin quadrupolar nuclei. Journal of Magnetic Resonance, 2006, 181, 68-78.	2.1	22
34	Study of Oxygenâ^'Nitrogen Replacement in BaTiO3by14N Solid-State Nuclear Magnetic Resonance. Chemistry of Materials, 2005, 17, 4114-4117.	6.7	28
35	Enhancement of the central-transition signal in static and magic-angle-spinning NMR of quadrupolar nuclei by frequency-swept fast amplitude-modulated pulses. Chemical Physics Letters, 2004, 383, 403-410.	2.6	27
36	Application of fast amplitude-modulated pulse trains for signal enhancement in static and magic-angle-spinning -NMR spectra. Solid State Nuclear Magnetic Resonance, 2004, 26, 114-120.	2.3	18

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37	A combined 14N/27Al nuclear magnetic resonance and powder X-ray diffraction study of impurity phases in Î²-sialon ceramics. Solid State Nuclear Magnetic Resonance, 2003, 23, 62-76.	2.3	23
38	Efficient 5QMAS NMR of spin-5/2 nuclei: use of fast amplitude-modulated radio-frequency pulses and cogwheel phase cycling. Journal of Magnetic Resonance, 2003, 163, 64-72.	2.1	16
39	Improved Proton Decoupling in NMR Spectroscopy of Crystalline Solids Using the S PINAL -64 Sequence. Monatshefte FÃ¼r Chemie, 2002, 133, 1549-1554.	1.8	45
40	The dynamic disorder of azulene: A single crystal deuterium nuclear magnetic resonance study. Journal of Chemical Physics, 2000, 112, 10858-10870.	3.0	16