Juergen Haase

List of Publications by Year
in descending order

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Version: 2024-02-01

87	1,841	218677	330143
papers	citations	26 h-index	37 g-index

87	87	87	2242
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Planar Cu and O NMR and the Pseudogap of Cuprate Superconductors. Condensed Matter, 2022, 7, 21.	1.8	0
2	NMR Study of AgInTe₂ at Normal and High Pressures. Journal of Physical Chemistry C, 2022, 126, 8461-8466.	3.1	0
3	Structural independence of hydrogen-bond symmetrisation dynamics at extreme pressure conditions. Nature Communications, 2022, 13, .	12.8	10
4	Application of microimaging to diffusion studies in nanoporous materials. Adsorption, 2021, 27, 819-840.	3.0	6
5	Diffusion Analysis in Pore Hierarchies by the Twoâ€Region Model. Advanced Materials Interfaces, 2021, 8, 2000749.	3.7	14
6	Pulsed field gradient NMR diffusion measurement in nanoporous materials. Adsorption, 2021, 27, 453-484.	3.0	40
7	Unusual Quadrupole NMR of Topological Insulator Bi₂Te₃. Journal of Physical Chemistry C, 2021, 125, 6743-6748.	3.1	3
8	Searching for the fundamentals of rehydroxylation dating of archaeological ceramics via NMR and IR microscopy. Journal of the American Ceramic Society, 2021, 104, 5328-5340.	3.8	2
9	Isobutene Transformation to Aromatics on Zn-Modified Zeolite: Particular Effects of Zn²⁺ and ZnO Species on the Reaction Occurrence Revealed with Solid-State NMR and FTIR Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 15343-15353.	3.1	17
10	Robust nuclear hyperpolarization driven by strongly coupled nitrogen vacancy centers. Journal of Applied Physics, 2021, 130, 104301.	2.5	2
11	Isobutane Transformation to Aromatics on Znâ€Modified Zeolites: Intermediates and the Effect of Zn 2+ and ZnO Species on the Reaction Occurrence Revealed by 13 C MAS NMR. ChemPhysChem, 2021, , .	2.1	5
12	Moissanite anvil cell single crystal NMR at pressures of up to 4.4 GPa. Review of Scientific Instruments, 2021, 92, 113901.	1.3	3
13	NMR Studies of the Dehydroxylation and Rehydroxylation (RHX) of Clays with Respect to the RHX Dating of Ceramic Materials. Journal of Physical Chemistry C, 2021, 125, 26274-26283.	3.1	2
14	Which Species, Zn²⁺ Cations or ZnO Clusters, Are More Efficient for Olefin Aromatization? ¹³C Solid-State NMR Investigation of n-But-1-ene Transformation on Zn-Modified Zeolite. ACS Catalysis, 2020, 10, 14224-14233.	11.2	29
15	Influence of Alkali Metal Cations on the Photodimerization of Bromo Cinnamates Studied by Solid-State NMR. Journal of Physical Chemistry C, 2020, 124, 27614-27620.	3.1	1
16	n-Butane transformation on Zn/H-BEA. The effect of different Zn species (Zn2+ and ZnO) on the reaction performance. Journal of Catalysis, 2020, 391, 69-79.	6.2	12
17	Mechanism of H/D Hydrogen Exchange of n-Butane with BrÃ¸nsted Acid Sites on Zn-Modified Zeolite: The Effect of Different Zn Species (Zn²⁺ and ZnO) on the Activation of Alkane Câ€“H Bonds. Journal of Physical Chemistry C, 2020, 124, 20270-20279.	3.1	15
18	Temperature-Independent Cuprate Pseudogap from Planar Oxygen NMR. Condensed Matter, 2020, 5, 66.	1.8	9

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19	NMR Shift and Relaxation and the Electronic Spin of Superconducting Cuprates. Journal of Superconductivity and Novel Magnetism, 2020, 33, 2621-2628.	1.8	4
20	Properties of the Electronic Fluid of Superconducting Cuprates from 63Cu NMR Shift and Relaxation. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3761-3771.	1.8	6
21	Tc and Other Cuprate Properties in Relation to Planar Charges as Measured by NMR. Condensed Matter, 2019, 4, 67.	1.8	9
22	Propylene Transformation on Zn-Modified Zeolite: Is There Any Difference in the Effect of Zn²⁺ Cations or ZnO Species on the Reaction Occurrence?. Journal of Physical Chemistry C, 2019, 123, 27573-27583.	3.1	23
23	Phenomenology of 63Cu Nuclear Relaxation in Cuprate Superconductors. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3369-3376.	1.8	4
24	Propane activation on Zn-modified zeolite. The effect of the nature of Zn-species on the mechanism of H/D hydrogen exchange of the alkane with BrÃ¸nsted acid sites. Journal of Catalysis, 2019, 378, 341-352.	6.2	23
25	Unusual 209Bi NMR quadrupole effects in topological insulator Bi2Se3. Journal of Magnetic Resonance, 2019, 302, 34-42.	2.1	7
26	Propane Transformation on Zn-Modified Zeolite. Effect of the Nature of Zn Species on Alkane Aromatization and Hydrogenolysis. Journal of Physical Chemistry C, 2019, 123, 30473-30485.	3.1	29
27	NMR Study of the Host Structure and Guest Dynamics Investigated with Alkane/Alkene Mixtures in Metal Organic Frameworks ZIF-8. Journal of Physical Chemistry C, 2019, 123, 1904-1912.	3.1	22
28	Revealing the Transient Concentration of CO₂ in a Mixedâ€Matrix Membrane by IR Microimaging and Molecular Modeling. Angewandte Chemie - International Edition, 2018, 57, 5156-5160.	13.8	35
29	Diffusive Spreading of Molecules in Nanoporous Materials. , 2018, , 171-202.		4
30	Proton mobility in sulfonic acid functionalized mesoporous materials studied by MAS PFG NMR diffusometry and impedance spectroscopy. Microporous and Mesoporous Materials, 2018, 255, 140-147.	4.4	11
31	Alkane/alkene mixture diffusion in silicalite-1 studied by MAS PFG NMR. Microporous and Mesoporous Materials, 2018, 257, 128-134.	4.4	23
32	Bulk Charge Ordering in the CuO2 Plane of the Cuprate Superconductor YBa2Cu3O6.9 by High-Pressure NMR. Condensed Matter, 2018, 3, 23.	1.8	15
33	Diffusion in Nanoporous Materials: Novel Insights by Combining MAS and PFG NMR. Processes, 2018, 6, 147.	2.8	27
34	Nitric Oxide Adsorption in MIL-100(Al) MOF Studied by Solid-State NMR. Journal of Physical Chemistry C, 2018, 122, 12723-12730.	3.1	30
35	NMR at pressures up to 90â€GPa. Journal of Magnetic Resonance, 2018, 292, 44-47.	2.1	21
36	Investigation of room temperature multispin-assisted bulk diamond ¹³C hyperpolarization at low magnetic fields. Journal of Physics Condensed Matter, 2018, 30, 305803.	1.8	5

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37	At Its Extremes: NMR at Giga-Pascal Pressures. Annual Reports on NMR Spectroscopy, 2018, 93, 1-74.	1.5	14
38	Revising the Concept of Pore Hierarchy for Ionic Transport in Carbon Materials for Supercapacitors. Advanced Energy Materials, 2018, 8, 1800892.	19.5	79
39	Hydrides of Alkaline Earthâ€“Tetrel (AeTt) Zintl Phases: Covalent Ttâ€“H Bonds from Silicon to Tin. Inorganic Chemistry, 2017, 56, 1061-1071.	4.0	24
40	Uncovering the Rotation and Translational Mobility of Benzene Confined in UiO-66 (Zr) Metalâ€“Organic Framework by the ²H NMRâ€“QENS Experimental Toolbox. Journal of Physical Chemistry C, 2017, 121, 2844-2857.	3.1	35
41	Probing the Guest-Mediated Structural Mobility in the UiO-66(Zr) Framework by 2H NMR Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 11593-11600.	3.1	20
42	NMR of Cuprate Superconductors: Recent Developments. Springer Series in Materials Science, 2017, , 77-97.	0.6	1
43	Anomalous longitudinal relaxation of nuclear spins in CaF₂. Fortschritte Der Physik, 2017, 65, 1600023.	4.4	1
44	Magnetic flux tailoring through Lenz lenses for ultrasmall samples: A new pathway to high-pressure nuclear magnetic resonance. Science Advances, 2017, 3, eaao5242.	10.3	38
45	Optically induced cross relaxation via nitrogen-related defects for bulk diamond <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mn>13</mml:mn></mml:mmultiscripts></mml:math> hyperpolarization. Physical Review B, 2017, 96, .	3.2	35
46	IR Microimaging of Directionâ€Dependent Uptake in MFIâ€Type Crystals. Chemie-Ingenieur-Technik, 2017, 89, 1686-1693.	0.8	5
47	Contrasting Phenomenology of NMR Shifts in Cuprate Superconductors. Condensed Matter, 2017, 2, 16.	1.8	14
48	Perspective on the phase diagram of cuprate high-temperature superconductors. Nature Communications, 2016, 7, 11413.	12.8	92
49	Charge Variations in Cuprate Superconductors from Nuclear Magnetic Resonance. Journal of Superconductivity and Novel Magnetism, 2016, 29, 3017-3022.	1.8	7
50	Ultraslow Dynamics of a Framework Linker in MIL-53 (Al) as a Sensor for Different Isomers of Xylene. Journal of Physical Chemistry C, 2016, 120, 21704-21709.	3.1	27
51	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Se</mml:mi><mml:mprescripts /><mml:none /><mml:mn>77</mml:mn></mml:mmultiscripts></mml:math>nuclear magnetic resonance of topological insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:mn>	3.2	17
52	Physical Review B, 2016, 93, . Electronic spin susceptibilities and superconductivity inHgBa2CuO4+Î´from nuclear magnetic resonance. Physical Review B, 2015, 92, .	3.2	16
53	Anvil cell gasket design for high pressure nuclear magnetic resonance experiments beyond 30 GPa. Review of Scientific Instruments, 2015, 86, 123906.	1.3	9
54	Uphill diffusion and overshooting in the adsorption of binary mixtures in nanoporous solids. Nature Communications, 2015, 6, 7697.	12.8	63

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55	¹¹³Cd Solidâ€State NMR for Probing the Coordination Sphere in Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2015, 21, 1118-1124.	3.3	27
56	Nuclear magnetic resonance at up to 10.1 GPa pressure detects an electronic topological transition in aluminum metal. Journal of Physics Condensed Matter, 2014, 26, 015501.	1.8	12
57	Moissanite anvil cell design for giga-pascal nuclear magnetic resonance. Review of Scientific Instruments, 2014, 85, 043903.	1.3	15
58	Distribution of electrons and holes in cuprate superconductors as determined from17OandCu63nuclear magnetic resonance. Physical Review B, 2014, 90, .	3.2	35
59	Waterâ€Mediated Proton Conduction in a Robust Triazolyl Phosphonate Metalâ€“Organic Framework with Hydrophilic Nanochannels. Chemistry - A European Journal, 2014, 20, 8862-8866.	3.3	35
60	Methane Activation on In-Modified ZSM-5 Zeolite. H/D Hydrogen Exchange of the Alkane with BrÃ¸nsted Acid Sites. Journal of Physical Chemistry C, 2014, 118, 14427-14432.	3.1	25
61	High-Sensitivity Nuclear Magnetic Resonance at Giga-Pascal Pressures: A New Tool for Probing Electronic and Chemical Properties of Condensed Matter under Extreme Conditions. Journal of Visualized Experiments, 2014, , e52243.	0.3	2
62	Charge Inhomogeneity in Electron-Doped Pr1.85Ce0.15CuO4 Determined with 63Cu NMR. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2685-2688.	1.8	8
63	Time dependent water uptake in Cu3(btc)2 MOF: Identification of different water adsorption states by 1H MAS NMR. Microporous and Mesoporous Materials, 2013, 180, 8-13.	4.4	41
64	Adsorption of Small Molecules on Cu₃(btc)₂ and Cu_{3â€“x}Zn_x(btc)₂ Metalâ€“Organic Frameworks (MOF) As Studied by Solid-State NMR. Journal of Physical Chemistry C, 2013, 117, 7703-7712.	3.1	47
65	Synthesis, Crystal Structure, and Solid-State NMR Investigations of Heteronuclear Zn/Co Coordination Networks â€" A Comparative Study. Inorganic Chemistry, 2013, 52, 4431-4442.	4.0	17
66	Magnetic resonance imaging at frequencies below 1 kHz. Magnetic Resonance Imaging, 2013, 31, 171-177.	1.8	33
67	Tracing Water and Cation Diffusion in Hydrated Zeolites of Type Li-LSX by Pulsed Field Gradient NMR. Journal of Physical Chemistry C, 2013, 117, 24866-24872.	3.1	26
68	Eigenmodes in the Long-Time Behavior of a Coupled Spin System Measured with Nuclear Magnetic Resonance. Physical Review Letters, 2012, 108, 177602.	7.8	20
69	Formation of Mixed Metal Cu_{3â€“x}Zn_x(btc)₂ Frameworks with Different Zinc Contents: Incorporation of Zn²⁺ into the Metalâ€“Organic Framework Structure as Studied by Solid-State NMR. Journal of Physical Chemistry C, 2012, 116, 20866-20873.	3.2	30
70	Ethene/ethane mixture diffusion in the MOF sieve ZIF-8 studied by MAS PFG NMR diffusometry. Microporous and Mesoporous Materials, 2012, 147, 135-141.	4.4	100
71	Highly proton conducting sulfonic acid functionalized mesoporous materials studied by impedance spectroscopy, MAS NMR spectroscopy and MAS PFG NMR diffusometry. Microporous and Mesoporous Materials, 2012, 156, 80-89.	4.4	28
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73	Hydrogen H/D Exchange and Activation of C₁â€“nC₄ Alkanes on Ga-Modified Zeolite BEA Studied with ¹H Magic Angle Spinning Nuclear Magnetic	3.1	34
74	High-pressure spin shifts in the pseudogap regime of superconducting YBa<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow><mml:mro	3.2	28
75	New Approach to High-Pressure Nuclear Magnetic Resonance with Anvil Cells. Journal of Low Temperature Physics, 2010, 159, 284-287.	1.4	11
76	High sensitivity nuclear magnetic resonance probe for anvil cell pressure experiments. Review of Scientific Instruments, 2009, 80, 073905.	1.3	24
77	First-Satellite Spectroscopy, a New Method for Quadrupolar Spins. Journal of Magnetic Resonance Series A, 1996, 119, 211-218.	1.6	12
78	Aluminum to oxygen cross-polarization in Î±-Al2O3 (corundum). Solid State Nuclear Magnetic Resonance, 1994, 3, 171-175.	2.3	15
79	Spectral editing: A quantitative application of spin-echo nuclear magnetic resonance spectroscopy to the study of 27Al in zeolite catalysts. Zeolites, 1994, 14, 89-100.	0.5	17
80	Characterization of zeolites and amorphous silicaâ€”aluminas by means of aluminum-27 nuclear magnetic resonance spectroscopy: A multifield, multiparameter investigation. Zeolites, 1994, 14, 101-109.	0.5	34
81	Sensitivity enhancement for NMR of the central transition of quadrupolar nuclei. Chemical Physics Letters, 1993, 209, 287-291.	2.6	79
82	Barium nuclear magnetic resonance spectroscopic study ofYBa2Cu3O7. Physical Review B, 1992, 46, 595-598.	3.2	22
83	27Al magic-angle-spinning NMR studies of aluminium nitride ceramics. Chemical Physics Letters, 1989, 156, 328-332.	2.6	17
84	Longitudinal NMR relaxation of 27Al nuclei in zeolites. Chemical Physics Letters, 1988, 150, 189-193.	2.6	23
85	1H MAS NMR In Situ Reaction Monitoring Reveals the Particular Effects of Zn2+ and ZnO Species on the Kinetics of Isobutane Transformation on Zn-Modified Zeolites. Journal of Physical Chemistry C, 0, , .	3.1	1
86	A Different NMR View of Cuprate Superconductors. Journal of Superconductivity and Novel Magnetism, 0, , 1.	1.8	0
87	^{17}O and ^{89}Y NMR Shift and Relaxation and the Temperature-Independent Pseudogap of the Cuprates. Journal of Superconductivity and Novel Magnetism, 0, , .	1.8	0