

# Mark S Conradi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12058046/publications.pdf>

Version: 2024-02-01

168  
papers

5,418  
citations

101543

36  
h-index

106344

65  
g-index

174  
all docs

174  
docs citations

174  
times ranked

3844  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative in vivo assessment of lung microstructure at the alveolar level with hyperpolarized $^3\text{He}$ diffusion MRI. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3111-3116.	7.1	325
2	MR imaging of diffusion of $^3\text{He}$ gas in healthy and diseased lungs. Magnetic Resonance in Medicine, 2000, 44, 174-179.	3.0	292
3	New, compensated Carr-Purcell sequences. Journal of Magnetic Resonance, 1990, 89, 479-484.	0.5	290
4	Are There Hydrogen Bonds in Supercritical Water?. Journal of the American Chemical Society, 1997, 119, 3811-3817.	13.7	281
5	Hyperpolarized $^3\text{He}$ diffusion MRI and histology in pulmonary emphysema. Magnetic Resonance in Medicine, 2006, 56, 1293-1300.	3.0	191
6	Are There Hydrogen Bonds in Supercritical Methanol and Ethanol?. Journal of Physical Chemistry B, 1998, 102, 263-271.	2.6	148
7	Quantification of lung microstructure with hyperpolarized $^3\text{He}$ diffusion MRI. Journal of Applied Physiology, 2009, 107, 1258-1265.	2.5	139
8	Rapid imaging of hyperpolarized gas using EPI. Magnetic Resonance in Medicine, 1999, 42, 507-514.	3.0	104
9	Hyperpolarized $^3\text{He}$ gas production and MR imaging of the lung. Concepts in Magnetic Resonance, 2001, 13, 277-293.	1.3	98
10	Molecular $\text{H}_2$ : Nuclear-spin-relaxation centers for protons in $\alpha\text{-Si}$ : H. Physical Review B, 1981, 24, 2285-2288.	3.2	89
11	$\text{LiBH}_4$ in Carbon Aerogel Nanoscaffolds: An NMR Study of Atomic Motions. Journal of Physical Chemistry C, 2010, 114, 4008-4014.	3.1	85
12	Atomic Motions in $\text{LiBH}_4$ by NMR. Journal of Physical Chemistry C, 2008, 112, 18706-18710.	3.1	76
13	Hyperpolarized $^3\text{He}$ MR Imaging: Physiologic Monitoring Observations and Safety Considerations in 100 Consecutive Subjects. Radiology, 2008, 248, 655-661.	7.3	74
14	Hydrogen Motion in Magnesium Hydride by NMR. Journal of Physical Chemistry C, 2008, 112, 19784-19790.	3.1	68
15	Long-range diffusion of hyperpolarized $^3\text{He}$ in explanted normal and emphysematous human lungs via magnetization tagging. Journal of Applied Physiology, 2005, 99, 1992-1997.	2.5	67
16	NMR hole-burning: A study of slow molecular rotations in glassy glycerol. Journal of Chemical Physics, 1982, 77, 1771-1778.	3.0	66
17	In Vivo Detection of Acinar Microstructural Changes in Early Emphysema with $^3\text{He}$ Lung Morphometry. Radiology, 2011, 260, 866-874.	7.3	66
18	Hyperpolarized $^3\text{He}$ MRI of mouse lung. Magnetic Resonance in Medicine, 2004, 52, 1310-1317.	3.0	64

#	ARTICLE	IF	CITATIONS
19	ESR of transient radicals during pyrolysis of fluids. <i>Journal of the American Chemical Society</i> , 1979, 101, 4312-4319.	13.7	61
20	Magnetization tagging decay to measure long-range $^3\text{He}$ diffusion in healthy and emphysematous canine lungs. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 1002-1008.	3.0	61
21	$\text{CO}_2$ Dynamics in Pure and Mixed-Metal MOFs with Open Metal Sites. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25778-25787.	3.1	59
22	Head-tail disorder and reorientation in solid $\text{N}_2\text{O}$ and $\text{CO}$ : Dielectric study. <i>Physical Review B</i> , 1982, 26, 3370-3375.	3.2	58
23	Dynamic echo planar MR imaging of lung ventilation with hyperpolarized $^3\text{He}$ in normal subjects and patients with severe emphysema. <i>NMR in Biomedicine</i> , 2000, 13, 176-181.	2.8	58
24	NMR in a diamond anvil cell. <i>Review of Scientific Instruments</i> , 1987, 58, 415-417.	1.3	54
25	Discovery of A New Al Species in Hydrogen Reactions of $\text{NaAlH}_4$ . <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2412-2416.	4.6	52
26	The evolution of structural changes in ettringite during thermal decomposition. <i>Journal of Solid State Chemistry</i> , 2006, 179, 1259-1272.	2.9	50
27	In vivo lung morphometry with hyperpolarized $^3\text{He}$ diffusion MRI in canines with induced emphysema: disease progression and comparison with computed tomography. <i>Journal of Applied Physiology</i> , 2007, 102, 477-484.	2.5	49
28	Low Frequency NMR Polarimeter for Hyperpolarized Gases. <i>Journal of Magnetic Resonance</i> , 1998, 134, 67-71.	2.1	45
29	$^{19}\text{F}$ MR imaging of ventilation and diffusion in excised lungs. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 577-585.	3.0	45
30	Hyperpolarized $^3\text{He}$ and perfluorocarbon gas diffusion MRI of lungs. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2006, 48, 63-83.	7.5	45
31	Characterization of a Mixture of $\text{CO}_2$ Adsorption Products in Hyperbranched Aminosilica Adsorbents by $^{13}\text{C}$ Solid-State NMR. <i>Environmental Science &amp; Technology</i> , 2015, 49, 13684-13691.	10.0	45
32	Anomalous $\text{H}_2$ Desorption Rate of $\text{NaAlH}_4$ Confined in Nitrogen-Doped Nanoporous Carbon Frameworks. <i>Chemistry of Materials</i> , 2018, 30, 2930-2938.	6.7	45
33	NMR to determine rates of motion and structures in metal-hydrides. <i>Journal of Alloys and Compounds</i> , 2007, 446-447, 499-503.	5.5	44
34	Probing the unusual anion mobility of $\text{LiBH}_4$ confined in highly ordered nanoporous carbon frameworks via solid state NMR and quasielastic neutron scattering. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9935.	10.3	42
35	Molecular $\text{H}_2$ trapped in $\text{AlH}_3$ solid. <i>Journal of Alloys and Compounds</i> , 2008, 463, 1-5.	5.5	40
36	Pulsed NMR of dilute ortho- $\text{H}_2$ in solid Ne, Ar, Kr, and para- $\text{H}_2$ . <i>Physical Review B</i> , 1979, 20, 2594-2616.	3.2	39

#	ARTICLE	IF	CITATIONS
37	Comprehensive NMR Study of Magnesium Borohydride. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3172-3177.	3.1	39
38	Sol-gel-like route to crystalline cadmium phosphide nanoclusters. <i>Chemistry of Materials</i> , 1992, 4, 508-511.	6.7	36
39	Combined MR proton lung perfusion/angiography and helium ventilation: Potential for detecting pulmonary emboli and ventilation defects. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 433-438.	3.0	36
40	<sup>3</sup> He Diffusion MRI of the Lung <sup>1</sup> . <i>Academic Radiology</i> , 2005, 12, 1406-1413.	2.5	35
41	Rotation and Diffusion of H <sub>2</sub> in Hydrogen <sup>15</sup> N Ice Clathrate by <sup>1</sup> H NMR. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12097-12102.	2.6	35
42	Exchange of Hydrogen Atoms Between BH <sub>4</sub> <sup>-</sup> in LiBH <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2009, 113, 5039-5042.	3.1	35
43	Chemical synthesis of nanocrystalline titanium and nickel aluminides from the metal chlorides and lithium aluminum hydride. <i>Advanced Materials</i> , 1996, 8, 163-166.	21.0	34
44	Effects of diffusion time on short-range hyperpolarized <sup>3</sup> He diffusivity measurements in emphysema. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 801-808.	3.4	34
45	Imaging lung microstructure in mice with hyperpolarized <sup>3</sup> He diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 620-626.	3.0	34
46	Experimental evidence of age-related adaptive changes in human acinar airways. <i>Journal of Applied Physiology</i> , 2016, 120, 159-165.	2.5	34
47	Probing lung microstructure with hyperpolarized noble gas diffusion MRI: theoretical models and experimental results. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 486-505.	3.0	33
48	Hydrogenation rate limiting step, diffusion and thermal conductivity in cold rolled magnesium hydride. <i>Journal of Alloys and Compounds</i> , 2014, 583, 116-120.	5.5	33
49	Two-dimensional diffusion of hydrogen in ZrBe <sub>2</sub> H <sub>1.4</sub> . <i>Physical Review B</i> , 1995, 51, 6336-6342.	3.2	32
50	Quantitative Identification of Metastable Magnesium Carbonate Minerals by Solid-State <sup>13</sup> C NMR Spectroscopy. <i>Environmental Science &amp; Technology</i> , 2015, 49, 657-664.	10.0	32
51	Glassy thermal anomalies due to dipolar reorientations? Specific heat of N <sub>2</sub> -Ar-CO alloys. <i>Physical Review Letters</i> , 1987, 59, 1317-1320.	7.8	31
52	Relaxation and diffusion of perfluorocarbon gas mixtures with oxygen for lung MRI. <i>Journal of Magnetic Resonance</i> , 2006, 181, 191-198.	2.1	31
53	Chemical Syntheses of Nanocrystalline Nickel Aluminides. <i>Chemistry of Materials</i> , 2000, 12, 973-982.	6.7	30
54	NMR study of molecular motions in cyclohexanol, a glass-forming rotor crystal. <i>Journal of Chemical Physics</i> , 1984, 80, 5851-5858.	3.0	28

#	ARTICLE	IF	CITATIONS
55	Temperature-jump NMR: Molecular twisting at the phase transition in para-terphenyl. <i>Physical Review B</i> , 1984, 30, 1133-1137.	3.2	28
56	Role of collateral paths in long-range diffusion in lungs. <i>Journal of Applied Physiology</i> , 2008, 104, 1495-1503.	2.5	28
57	In Situ Measurement of Magnesium Carbonate Formation from CO <sub>2</sub> Using Static High-Pressure and -Temperature <sup>13</sup> C NMR. <i>Environmental Science &amp; Technology</i> , 2013, 47, 119-125.	10.0	28
58	Nuclear magnetic resonance probe for supercritical water and aqueous solutions. <i>Review of Scientific Instruments</i> , 1997, 68, 159-164.	1.3	26
59	A simple, robust hardware device for passive or active respiratory gating in MRI and MRS experiments. <i>Concepts in Magnetic Resonance</i> , 2004, 21B, 40-48.	1.3	26
60	FET Q switch for pulsed NMR. <i>Review of Scientific Instruments</i> , 1977, 48, 359-361.	1.3	25
61	Combined translational-rotational jumps in solid <sup>13</sup> C. <i>Physical Review B</i> , 1984, 30, 24-31.	3.2	25
62	Improved NMR resonator for diamond anvil cells. <i>Review of Scientific Instruments</i> , 1992, 63, 3674-3676.	1.3	25
63	Low-temperature NMR techniques. <i>Concepts in Magnetic Resonance</i> , 1993, 5, 243-262.	1.3	25
64	Deuterium site occupancy in YD <sub>3</sub> by magic-angle-spinning NMR. <i>Physical Review B</i> , 1996, 53, 15054-15062.	3.2	25
65	Anisotropic diffusion in benzene: <sup>13</sup> C NMR study. <i>Physical Review B</i> , 1985, 32, 7076-7082.	3.2	24
66	Molecular motion in solid H <sub>2</sub> at high pressures. <i>Physical Review B</i> , 1989, 40, 12492-12498.	3.2	24
67	HD and D <sub>2</sub> layers physisorbed on MgO studied by NMR. <i>Physical Review Letters</i> , 1992, 69, 2983-2986.	7.8	24
68	Nuclear magnetic resonance evidence of disorder and motion in yttrium trideuteride. <i>Physical Review B</i> , 1998, 58, 14823-14832.	3.2	24
69	The Role of Collateral Paths in Long-range Diffusion of <sup>3</sup> He in Lungs. <i>Academic Radiology</i> , 2008, 15, 675-682.	2.5	24
70	NMR Studies of the Hydrogen Storage Compound NaMgH <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2009, 113, 18414-18419.	3.1	24
71	Development and performance of a 129-GHz dynamic nuclear polarizer in an ultra-wide bore superconducting magnet. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2015, 28, 195-205.	2.0	24
72	Remote Tuning of NMR Probe Circuits. <i>Journal of Magnetic Resonance</i> , 2000, 144, 53-57.	2.1	23

#	ARTICLE	IF	CITATIONS
73	Molecular rotations in CO/N <sub>2</sub> /Ar quadrupole glass: Dielectric study. <i>Solid State Communications</i> , 1984, 49, 177-182.	1.9	21
74	Orientalional Freezing in KCN-KBr Studied by Magnetic Resonance. <i>Physical Review Letters</i> , 1986, 56, 2284-2287.	7.8	21
75	A transmission oscillator ultrasonic spectrometer. <i>Review of Scientific Instruments</i> , 1974, 45, 358-360.	1.3	20
76	Hydrogen NMR of H <sub>2</sub> <sup>17</sup> O Clathrate. <i>Journal of Physical Chemistry B</i> , 2008, 112, 13695-13700.	2.6	20
77	NMR Investigation of Nanoporous <sup>13</sup> Mg(BH <sub>4</sub> ) <sub>2</sub> and Its Thermally Induced Phase Changes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13033-13037.	3.1	20
78	Impacts of Diffusive Transport on Carbonate Mineral Formation from Magnesium Silicate-CO <sub>2</sub> -Water Reactions. <i>Environmental Science &amp; Technology</i> , 2014, 48, 14344-14351.	10.0	20
79	Polarization transfer using hyperpolarized, supercritical xenon. <i>Chemical Physics Letters</i> , 2000, 327, 359-364.	2.6	19
80	Proton magnetic resonance spectra of YH <sub>3</sub> and LuH <sub>3</sub> . <i>Physical Review B</i> , 2005, 72, .	3.2	19
81	Transpleural ventilation of explanted human lungs. <i>Thorax</i> , 2007, 62, 623-630.	5.6	19
82	Actively decoupled transmit-receive coil pair for mouse brain MRI. <i>Concepts in Magnetic Resonance Part B</i> , 2008, 33B, 252-259.	0.7	19
83	Low-field magnetic resonance imaging of roots in intact clayey and silty soils. <i>Geoderma</i> , 2020, 370, 114356.	5.1	19
84	Critical proton and deuteron spin-lattice relaxation at the phase transition in p-terphenyl. <i>Physical Review B</i> , 1985, 31, 4388-4393.	3.2	18
85	Low-temperature organometallic synthesis of crystalline and glassy ternary semiconductors M <sub>1</sub> M <sub>2</sub> M <sub>3</sub> P <sub>2</sub> where M <sub>1</sub> → Zn and Cd, and M <sub>2</sub> → Ge and Sn. <i>Journal of Organometallic Chemistry</i> , 1993, 449, 9-18.	1.8	18
86	Hydrogen exchange reactions in supercritical media monitored by in situ NMR. <i>Journal of Supercritical Fluids</i> , 1998, 14, 31-40.	3.2	18
87	NMR Study of LiBH <sub>4</sub> with C <sub>60</sub> . <i>Journal of Physical Chemistry C</i> , 2010, 114, 19862-19866.	3.1	18
88	Mobile Species in NaAlH <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2013, 117, 8105-8113.	3.1	17
89	Pre-polarization fields for earth's field NMR: Fast discharge for use with short T <sub>1</sub> and large coils. <i>Journal of Magnetic Resonance</i> , 2017, 281, 241-245.	2.1	17
90	Helicopter-borne NMR for detection of oil under sea-ice. <i>Marine Pollution Bulletin</i> , 2019, 144, 160-166.	5.0	17

#	ARTICLE	IF	CITATIONS
91	How accurately can the parameters from a model of anisotropic $^3\text{He}$ gas diffusion in lung acinar airways be estimated? Bayesian view. <i>Journal of Magnetic Resonance</i> , 2007, 184, 62-71.	2.1	16
92	NMR Study of Anion Dynamics in Solid $\text{KAlH}_4$ . <i>Journal of Physical Chemistry C</i> , 2014, 118, 5725-5732.	3.1	16
93	Generation of short, intense gradient pulses. <i>Journal of Magnetic Resonance</i> , 1991, 94, 370-375.	0.5	15
94	Multi-exponential signal decay from diffusion in a single compartment. <i>Journal of Magnetic Resonance</i> , 2009, 197, 87-90.	2.1	15
95	Revisiting Anisotropic Diffusion of Carbon Dioxide in the Metal-Organic Framework $\text{Zn}_2(\text{dobpdc})$ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 15344-15351.	3.1	15
96	Combined translation-rotation jumps in solid carbon dioxide. <i>Journal of Chemical Physics</i> , 1984, 81, 6064-6068.	3.0	14
97	The $^{31}\text{P}$ NMR spectra of $\text{Cd}_3\text{P}_2$ and $\text{Zn}_3\text{P}_2$ . <i>Journal of Physics and Chemistry of Solids</i> , 1992, 53, 1275-1278.	4.0	14
98	The $^{31}\text{P}$ NMR spectrum of $\text{InP}$ . <i>Journal of Physics and Chemistry of Solids</i> , 1992, 53, 1073-1074.	4.0	14
99	Explanation of the high-temperature relaxation anomaly in a metal-hydrogen system. <i>Physical Review B</i> , 1994, 49, 11773-11782.	3.2	14
100	Cross relaxation and atomic motion in $\text{LiNbO}_2$ . <i>Physical Review B</i> , 1994, 50, 15764-15774.	3.2	14
101	Nuclear magnetic resonance study of the low-temperature localized H(D) motion in $^{\pm}\text{ScHx(Dx)}$ : Isotope effects. <i>Physical Review B</i> , 1999, 60, 966-971.	3.2	14
102	Feasibility of diffusion-NMR surface-to-volume measurements tested by calculations and computer simulations. <i>Journal of Magnetic Resonance</i> , 2004, 169, 196-202.	2.1	14
103	Calibration of RF transmitter voltages for hyperpolarized gas MRI. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 239-243.	3.0	14
104	Nuclear Magnetic Resonance Study of Molecular Dynamics in Ammine Metal Borohydride $\text{Sr}(\text{BH}_4)_2(\text{NH}_3)_2$ . <i>Journal of Physical Chemistry C</i> , 2016, 120, 24646-24654.	3.1	14
105	Adiabatic sweep pulses for earth's field NMR with a surface coil. <i>Journal of Magnetic Resonance</i> , 2018, 288, 23-27.	2.1	14
106	Feasibility of combining MR perfusion, angiography, and $^3\text{He}$ ventilation imaging for evaluation of lung function in a porcine model. <i>Academic Radiology</i> , 2005, 12, 202-209.	2.5	13
107	NMR in high-pressure phases of solid $\text{NH}_3$ and $\text{ND}_3$ . <i>Physical Review B</i> , 1986, 33, 14-21.	3.2	12
108	Flow velocity measurement with ac gradients. <i>Magnetic Resonance in Medicine</i> , 1987, 4, 274-281.	3.0	12

#	ARTICLE	IF	CITATIONS
109	Hydrogen Nuclear Spin Relaxation in Hydrogen <sup>2</sup> Ice Clathrate. Journal of Physical Chemistry A, 2008, 112, 8303-8309.	2.5	12
110	Deuterium NMR study of structure and motion in LuD <sub>3</sub> . Physical Review B, 2003, 67, .	3.2	11
111	Emphysema Quantification in Inflation-Fixed Lungs Using Low-Dose Computed Tomography and <sup>3</sup> He Magnetic Resonance Imaging. Journal of Computer Assisted Tomography, 2010, 34, 773-779.	0.9	11
112	Atomic motions in an unusual molecular semiconductor: NaSn. Physical Review B, 1995, 52, 13998-14005.	3.2	10
113	NMR Studies of NaH. Journal of Physical Chemistry C, 2012, 116, 18649-18654.	3.1	10
114	Commentary on "The influence of lung airways branching structure and diffusion time on measurements and models of short-range <sup>3</sup> He gas MR diffusion". Journal of Magnetic Resonance, 2014, 239, 139-142.	2.1	10
115	Earth's field NMR detection of oil under arctic ice "water suppression. Journal of Magnetic Resonance, 2018, 288, 95-99.	2.1	10
116	<sup>3</sup> He diffusion MRI in human lungs. Journal of Magnetic Resonance, 2018, 292, 90-98.	2.1	10
117	CO/N <sub>2</sub> /Ar orientational glass: magnetic resonance. Canadian Journal of Chemistry, 1988, 66, 680-685.	1.1	9
118	Measurement of like-spin dipole couplings. Journal of Magnetic Resonance, 1991, 91, 254-260.	0.5	9
119	Enhancement of nuclear-spin cross-relaxation in metal-hydrogen systems. Physical Review B, 1991, 44, 11759-11766.	3.2	9
120	Hydrogen NMR of Palladium Hydride: Measuring the Hydride <sup>2</sup> Gas Exchange Rate. Journal of Physical Chemistry C, 2011, 115, 4966-4970.	3.1	9
121	What makes a good pediatric transplant lung: Insights from in vivo lung morphometry with hyperpolarized <sup>3</sup> He magnetic resonance imaging. Pediatric Transplantation, 2017, 21, e12886.	1.0	9
122	NMR spectroscopy of coin cell batteries with metal casings. Science Advances, 2021, 7, eabg8298.	10.3	9
123	Diffusion and nuclear magnetic relaxation of H <sub>2</sub> in rare-gas liquids. Physical Review B, 1979, 19, 20-31.	3.2	8
124	Proton NMR study of the orientation and motion of H <sub>2</sub> O in Na <sup>2</sup> alumina. Journal of Chemical Physics, 1982, 76, 6-9.	3.0	8
125	CO/N <sub>2</sub> solid solutions: Head-tail reorientations. Journal of Chemical Physics, 1983, 78, 6901-6905.	3.0	8
126	NMR in quadrupole glasses and the spectral density of orientation fluctuations. Physical Review B, 1983, 28, 2848-2851.	3.2	8



#	ARTICLE	IF	CITATIONS
127	Cyanide-orientation distribution by single-crystal NMR of $K(CN)_xBr_{1-x}$ . <i>Physical Review B</i> , 1990, 41, 6234-6239.	3.2	8
128	Nuclear-magnetic-resonance determination of the mechanism of molecular reorientation in solid $N_2O$ . <i>Physical Review B</i> , 1991, 44, 9295-9300.	3.2	8
129	Molecular Motions of Adsorbed $CO_2$ on a Tetrazole-Functionalized PIM Polymer Studied with $^{13}C$ NMR. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22995-22999.	3.1	8
130	Spatially-variable carbonation reactions in polycrystalline olivine. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 204, 252-266.	3.9	8
131	$CO_2$ Adsorption on PIMs Studied with $^{13}C$ NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4403-4408.	3.1	8
132	Low-noise circuitry for low-temperature NMR and SQUIDs. <i>Review of Scientific Instruments</i> , 1977, 48, 1219-1220.	1.3	7
133	Rotations in $N_2^{15}$ and $N_2^{14}$ : Magnetic resonance comparison. <i>Physical Review B</i> , 1984, 30, 4905-4908.	3.2	7
134	Two-part freezing in the orientational glass $(KCN)_x(NaCN)_{1-x}$ . <i>Physical Review B</i> , 1992, 45, 13057-13060.	3.2	7
135	$^{45}Sc$ NMR and high-resolution quasielastic neutron scattering studies of localized H(D) motion in $ScH_x(D_x)$ . <i>Physical Review B</i> , 2002, 66, .	3.2	7
136	Commentaries on Viewpoint: Unresolved mysteries. <i>Journal of Applied Physiology</i> , 2012, 113, 1948-1949.	2.5	7
137	NMR evidence for change in the local structure of $ZrCr_2H_x$ . <i>Physical Review B</i> , 1998, 57, 10455-10461.	3.2	6
138	NMR study of a temperature-induced structural transition in $ZrBe_2D_x$ . <i>Journal of Alloys and Compounds</i> , 2002, 330-332, 179-182.	5.5	6
139	Apparatus for high temperatures and intermediate pressures, for in situ nuclear magnetic resonance of hydrogen storage systems. <i>Review of Scientific Instruments</i> , 2005, 76, 073906.	1.3	6
140	Effects of NaOH in Solid NaH: Solution/Segregation Phase Transition and Diffusion Acceleration. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23575-23581.	3.1	6
141	Determining pH at Elevated Pressure and Temperature Using <i>in Situ</i> $^{13}C$ NMR. <i>Environmental Science &amp; Technology</i> , 2015, 49, 1631-1638.	10.0	6
142	A flow-through, elevated-temperature and -pressure NMR apparatus for in-situ $CO_2$ sequestration studies. <i>Journal of Magnetic Resonance</i> , 2017, 282, 136-141.	2.1	6
143	$LiBH_4$ in Aerogel: Ionic Motions by NMR. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15114-15119.	3.1	6
144	Evidence for the high-temperature spin-relaxation anomaly in metal hydrides. <i>Physical Review B</i> , 1992, 46, 184-187.	3.2	5

#	ARTICLE	IF	CITATIONS
145	Spin relaxation for motion restricted to two dimensions. <i>Physical Review B</i> , 1998, 58, 248-253.	3.2	5
146	Vacancy ordering phase transition in $\text{ZrBe}_2(\text{H/D})_x$ : NMR and electronic structure study. <i>Physical Review B</i> , 2003, 67, .	3.2	5
147	Comparison of spin relaxation in the metal-hydrogen systems $\text{ZrNiH}_x$ and $\text{ZrNiD}_x$ . <i>Physical Review B</i> , 2006, 73, .	3.2	5
148	Design and demonstration of a low-field magnetic resonance imaging rhizotron for in-field imaging of energy sorghum roots. <i>The Plant Phenome Journal</i> , 2022, 5, .	2.0	5
149	NMR comparisons of nanocrystalline and coarse-grained palladium hydride and deuteride. <i>Physical Review B</i> , 2003, 67, .	3.2	4
150	Rate of hydrogen motion in Ni-substituted $\text{LaNi}_5\text{H}_x$ from NMR. <i>Journal of Alloys and Compounds</i> , 2007, 446-447, 495-498.	5.5	4
151	NMR Measurement of Exchange of Deuterium between Palladium-Deuteride and Deuterium Gas. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4335-4339.	3.1	4
152	Circuit filling factor (CFF) for multiply tuned probes, revisited. <i>Journal of Magnetic Resonance</i> , 2018, 292, 53-58.	2.1	4
153	Atomic motions in NaSn: an unusual molecular semiconductor. <i>Journal of Non-Crystalline Solids</i> , 1996, 205-207, 203-207.	3.1	3
154	Anomalous transverse-spin relaxation in $\text{ZrCr}_2\text{H}_x$ . <i>Physical Review B</i> , 1999, 59, 3769-3774.	3.2	3
155	Magnetic alignment in nominally non-magnetic hexagonal metal hydrides: NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2003, 24, 254-262.	2.3	3
156	Detection of Fluorite-Structured $\text{MgD}_2/\text{TiD}_2$ : Deuterium NMR. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7656-7661.	3.1	3
157	Low-cost gradient amplifiers for small MRI systems. <i>Journal of Magnetic Resonance</i> , 2022, 335, 107127.	2.1	3
158	Magnetic resonance signal-to-noise calculation: direct vs locked-in recording. <i>Review of Scientific Instruments</i> , 1977, 48, 444-448.	1.3	2
159	$^{15}\text{N}$ NMR study of thermally cycled KCN pellets. <i>Physical Review B</i> , 1993, 47, 5435-5437.	3.2	2
160	MR imaging of diffusion of $^3\text{He}$ gas in healthy and diseased lungs. , 2000, 44, 174.		2
161	Protection circuitry for high-power diode laser arrays. <i>Review of Scientific Instruments</i> , 1998, 69, 2230-2232.	1.3	1
162	Versatile pulsed NMR system and experiments for students. <i>Concepts in Magnetic Resonance</i> , 2000, 12, 257-268.	1.3	1

#	ARTICLE	IF	CITATIONS
163	Piezoelectric crystals generate NMR-like signals for rapid spectrometer troubleshooting. Journal of Magnetic Resonance, 2014, 242, 1-3.	2.1	1
164	A combined experimental setup for OP and ODNMR. Journal of Magnetic Resonance, 2017, 281, 172-187.	2.1	1
165	Feasibility of diffusion-NMR surface-to-volume measurements tested by calculations and computer simulations. Journal of Magnetic Resonance, 2004, 169, 196-196.	2.1	0
166	Reply to Verbanck and Paiva. Journal of Applied Physiology, 2009, 106, 1024-1024.	2.5	0
167	NMR of petrochemical-type chemical reactions. Journal of Magnetic Resonance, 2020, 311, 106665.	2.1	0
168	Function and Microstructure by Hyperpolarized Gas MRI. , 2014, , 247-267.		0