

# Marek Pruski

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1341301/publications.pdf>

Version: 2024-02-01

145  
papers

7,352  
citations

57758

44  
h-index

62596

80  
g-index

148  
all docs

148  
docs citations

148  
times ranked

7161  
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond Simple Dilution: Superior Conductivities from Cosolvation of Acetonitrile/LiTFSI Concentrated Solution with Acetone. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2788-2796.	3.1	6
2	NMR and Theoretical Study of In-Pore Diffusivity of Ionic Liquid-Solvent Mixtures. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4889-4898.	2.6	3
3	Efficiency analysis of helium-cooled MAS DNP: case studies of surface-modified nanoparticles and homogeneous small-molecule solutions. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4919-4926.	2.8	9
4	Synthesis and Characterization of Tris(oxazolinyl)borato Copper(II) and Copper(I) Complexes. <i>Helvetica Chimica Acta</i> , 2021, 104, e2000209.	1.6	0
5	Beyond the Active Site. Cp*ZrMe <sub>3</sub> /Sulfated Alumina-Catalyzed Olefin Polymerization Tacticity via Catalyst-Surface Ion Pairing. <i>ChemCatChem</i> , 2021, 13, 2564-2569.	3.7	8
6	Indirectly Detected DNP-Enhanced 17O NMR Spectroscopy: Observation of Non-Protonated Near-Surface Oxygen at Naturally Abundant Silica and Silica-Alumina. <i>ChemPhysChem</i> , 2021, 22, 1441-1445.	2.1	4
7	Revealing the Configuration and Conformation of Surface Organometallic Catalysts with DNP-Enhanced NMR. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13433-13442.	3.1	11
8	Optimizing the surface distribution of acid sites for cooperative catalysis in condensation reactions promoted by water. <i>Chem Catalysis</i> , 2021, 1, 1065-1087.	6.1	14
9	Silica-Supported Organolanthanum Catalysts for C=O Bond Cleavage in Epoxides. <i>Journal of the American Chemical Society</i> , 2020, 142, 2935-2947.	13.7	23
10	Site-Specific Sodiation Mechanisms of Selenium in Microporous Carbon Host. <i>Nano Letters</i> , 2020, 20, 918-928.	9.1	30
11	Dynamic Nuclear Polarization of Metal-Doped Oxide Glasses: A Test of the Generality of Paramagnetic Metal Polarizing Agents. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23126-23133.	3.1	12
12	Single Molecule Investigation of Nanoconfinement Hydrophobicity in Heterogeneous Catalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 13305-13309.	13.7	31
13	Combining fast magic angle spinning dynamic nuclear polarization with indirect detection to further enhance the sensitivity of solid-state NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2020, 109, 101685.	2.3	22
14	Diffusivity and Structure of Room Temperature Ionic Liquid in Various Organic Solvents. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9931-9937.	2.6	18
15	Full-Scale Ab Initio Simulation of Magic-Angle-Spinning Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5655-5660.	4.6	24
16	Nature of Terminating Hydroxyl Groups and Intercalating Water in Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXenes: A Study by <sup>1</sup> H Solid-State NMR and DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13649-13655.	3.1	35
17	Two-step conversion of Kraft lignin to nylon precursors under mild conditions. <i>Green Chemistry</i> , 2020, 22, 4676-4682.	9.0	25
18	Activation of Low-Valent, Multiply M-Bonded Group VI Dimers toward Catalytic Olefin Metathesis via Surface Organometallic Chemistry. <i>Organometallics</i> , 2020, 39, 1035-1045.	2.3	8

#	ARTICLE	IF	CITATIONS
19	Hydrazone-Linked Heptazine Polymeric Carbon Nitrides for Synergistic Visible-Light-Driven Catalysis. <i>Chemistry - A European Journal</i> , 2020, 26, 7358-7364.	3.3	20
20	Critical Role of Anion-Solvent Interactions for Dynamics of Solvent-in-Salt Solutions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8457-8466.	3.1	32
21	Shedding light on the atomic-scale structure of amorphous silica-alumina and its Brønsted acid sites. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19529-19537.	2.8	32
22	Linear-scaling <i>ab initio</i> simulations of spin diffusion in rotating solids. <i>Journal of Chemical Physics</i> , 2019, 151, 034110.	3.0	9
23	Condensed Phase Deactivation of Solid Brønsted Acids in the Dehydration of Fructose to Hydroxymethylfurfural. <i>ACS Catalysis</i> , 2019, 9, 11568-11578.	11.2	19
24	Upcycling Single-Use Polyethylene into High-Quality Liquid Products. <i>ACS Central Science</i> , 2019, 5, 1795-1803.	11.3	283
25	Spatial Distribution of Silica-Bound Catalytic Organic Functional Groups Can Now Be Revealed by Conventional and DNP-Enhanced Solid-State NMR Methods. <i>ACS Catalysis</i> , 2019, 9, 7238-7249.	11.2	27
26	Interfacial Control of Catalytic Activity in the Aldol Condensation: Combining the Effects of Hydrophobic Environments and Water. <i>ACS Catalysis</i> , 2019, 9, 5574-5582.	11.2	27
27	Homonuclear dipolar recoupling of arbitrary pairs in multi-spin systems under magic angle spinning: A double-frequency-selective ZQ-SEASHORE experiment. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 101, 76-81.	2.3	8
28	Electrophilic Organoiridium(III) Pincer Complexes on Sulfated Zirconia for Hydrocarbon Activation and Functionalization. <i>Journal of the American Chemical Society</i> , 2019, 141, 6325-6337.	13.7	38
29	Mechanochemical reactions and hydrogen storage capacities in MBH <sub>4</sub> -SiS <sub>2</sub> systems (M Li or Na). <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7381-7391.	7.1	13
30	Reducing <i>t</i> <sub>1</sub> noise through rapid scanning. <i>Journal of Magnetic Resonance</i> , 2019, 298, 31-34.	2.1	16
31	The anomalous solidification of concrete grindings from acid treatment. <i>Cement and Concrete Research</i> , 2019, 116, 65-69.	11.0	1
32	Enhanced 1H-X D-HMQC performance through improved 1H homonuclear decoupling. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 98, 12-18.	2.3	11
33	Chemoselective Hydrogenation with Supported Organoplatinum(IV) Catalyst on Zn(II)-Modified Silica. <i>Journal of the American Chemical Society</i> , 2018, 140, 3940-3951.	13.7	56
34	Evidence for Redox Mechanisms in Organometallic Chemisorption and Reactivity on Sulfated Metal Oxides. <i>Journal of the American Chemical Society</i> , 2018, 140, 6308-6316.	13.7	34
35	Quantitative atomic-scale structure characterization of ordered mesoporous carbon materials by solid state NMR. <i>Carbon</i> , 2018, 131, 102-110.	10.3	12
36	Mechanochemistry of the LiBH <sub>4</sub> -AlCl <sub>3</sub> System: Structural Characterization of the Products by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1955-1962.	3.1	7

#	ARTICLE	IF	CITATIONS
37	Synthesis of Supported Pd <sup>0</sup> Nanoparticles from a Single-Site Pd <sup>2+</sup> Surface Complex by Alkene Reduction. <i>Chemistry of Materials</i> , 2018, 30, 1032-1044.	6.7	17
38	Direct <sup>17</sup> O dynamic nuclear polarization of single-site heterogeneous catalysts. <i>Chemical Communications</i> , 2018, 54, 3472-3475.	4.1	26
39	Optimal sample formulations for DNP SENS: The importance of radical-surface interactions. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 33, 9-18.	7.4	42
40	Large-scale <i>ab initio</i> simulations of MAS DNP enhancements using a Monte Carlo optimization strategy. <i>Journal of Chemical Physics</i> , 2018, 149, 154202.	3.0	22
41	Surface Organometallic Chemistry of Supported Iridium(III) as a Probe for Organotransition Metal-Support Interactions in C-H Activation. <i>ACS Catalysis</i> , 2018, 8, 5363-5373.	11.2	29
42	Spatial distribution of organic functional groups supported on mesoporous silica nanoparticles (2): a study by <sup>1</sup> H triple-quantum fast-MAS solid-state NMR. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22203-22209.	2.8	20
43	Chapter 1. Heteronuclear Correlation Solid-state NMR Spectroscopy with Indirect Detection under Fast Magic-angle Spinning. <i>New Developments in NMR</i> , 2018, , 1-38.	0.1	8
44	Phosphate modified ceria as a Brønsted acidic/redox multifunctional catalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4455-4466.	10.3	39
45	Indirect detection of infinite-speed MAS solid-state NMR spectra. <i>Journal of Magnetic Resonance</i> , 2017, 276, 95-102.	2.1	36
46	<sup>12</sup> -SiH-Containing Tris(silazido) Rare-Earth Complexes as Homogeneous and Grafted Single-Site Catalyst Precursors for Hydroamination. <i>Organometallics</i> , 2017, 36, 1142-1153.	2.3	25
47	Characterizing Substrate-Surface Interactions on Alumina-Supported Metal Catalysts by Dynamic Nuclear Polarization-Enhanced Double-Resonance NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 2702-2709.	13.7	59
48	DNP-enhanced ultrawide-line <sup>207</sup> Pb solid-state NMR spectroscopy: an application to cultural heritage science. <i>Dalton Transactions</i> , 2017, 46, 3535-3540.	3.3	23
49	Direct Spectroscopic Evidence for Isolated Silanols in SiO <sub>x</sub> /Al <sub>2</sub> O <sub>3</sub> and Their Formation Mechanism. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6060-6064.	3.1	13
50	Natural Abundance <sup>17</sup> O DNP-NMR Provides Precise O-H Distances and Insights into the Brønsted Acidity of Heterogeneous Catalysts. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9165-9169.	13.8	63
51	Natural Abundance <sup>17</sup> O DNP-NMR Provides Precise O-H Distances and Insights into the Brønsted Acidity of Heterogeneous Catalysts. <i>Angewandte Chemie</i> , 2017, 129, 9293-9297.	2.0	10
52	In Silico Design of DNP Polarizing Agents: Can Current Dinitroxides Be Improved?. <i>ChemPhysChem</i> , 2017, 18, 2279-2287.	2.1	32
53	Spatial distribution of organic functional groups supported on mesoporous silica nanoparticles: a study by conventional and DNP-enhanced <sup>29</sup> Si solid-state NMR. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1781-1789.	2.8	49
54	Atomic-Level Structure Characterization of Biomass Pre- and Post-Lignin Treatment by Dynamic Nuclear Polarization-Enhanced Solid-State NMR. <i>Journal of Physical Chemistry A</i> , 2017, 121, 623-630.	2.5	57

#	ARTICLE	IF	CITATIONS
55	Measuring Long-Range $^{13}\text{C}$ - $^{13}\text{C}$ Correlations on a Surface under Natural Abundance Using Dynamic Nuclear Polarization-Enhanced Solid-State Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24687-24691.	3.1	21
56	Improved strategies for DNP-enhanced 2D $^1\text{H}$ -X heteronuclear correlation spectroscopy of surfaces. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 87, 38-44.	2.3	27
57	Innentitelbild: Natural Abundance $^{17}\text{O}$ DNP-NMR Provides Precise $\text{O-H}$ Distances and Insights into the Brønsted Acidity of Heterogeneous Catalysts ( <i>Angew. Chem.</i> 31/2017). <i>Angewandte Chemie</i> , 2017, 129, 9032-9032.	2.0	0
58	Solvent- and catalyst-free mechanochemical synthesis of alkali metal monohydrides. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12188-12196.	10.3	7
59	Magnetic resonance imaging of DNP enhancements in a rotor spinning at the magic angle. <i>Journal of Magnetic Resonance</i> , 2016, 264, 125-130.	2.1	10
60	Probing Surface Hydrogen Bonding and Dynamics by Natural Abundance, Multidimensional, $^{17}\text{O}$ DNP-NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11535-11544.	3.1	65
61	Virtual Special Issue on Catalysis at the U.S. Department of Energy's National Laboratories. <i>ACS Catalysis</i> , 2016, 6, 3227-3235.	11.2	2
62	Natural abundance $^{14}\text{N}$ and $^{15}\text{N}$ solid-state NMR of pharmaceuticals and their polymorphs. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17713-17730.	2.8	55
63	DNP-Enhanced Ultrawideband Solid-State NMR Spectroscopy: Studies of Platinum in Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2322-2327.	4.6	77
64	Identifying low-coverage surface species on supported noble metal nanoparticle catalysts by DNP-NMR. <i>Chemical Communications</i> , 2016, 52, 1859-1862.	4.1	36
65	Effects of biradical deuteration on the performance of DNP: towards better performing polarizing agents. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 65-69.	2.8	34
66	Highly Dispersed $\text{SiO}_2/\text{Al}_2\text{O}_3$ Catalysts Illuminate the Reactivity of Isolated Silanol Sites. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13346-13351.	13.8	66
67	Natural Abundance $^{17}\text{O}$ DNP Two-Dimensional and Surface-Enhanced NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 8336-8339.	13.7	126
68	Benzene Selectivity in Competitive Arene Hydrogenation: Effects of Single-Site Catalyst-Acidic Oxide Surface Binding Geometry. <i>Journal of the American Chemical Society</i> , 2015, 137, 6770-6780.	13.7	76
69	PRESTO polarization transfer to quadrupolar nuclei: implications for dynamic nuclear polarization. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22616-22622.	2.8	33
70	Dynamic Nuclear Polarization Solid-State NMR in Heterogeneous Catalysis Research. <i>ACS Catalysis</i> , 2015, 5, 7055-7062.	11.2	160
71	Mesoporous Silica-Supported Amidozirconium-Catalyzed Carbonyl Hydroboration. <i>ACS Catalysis</i> , 2015, 5, 7399-7414.	11.2	87
72	Selective functionalization of the mesopores of SBA-15. <i>Microporous and Mesoporous Materials</i> , 2015, 203, 123-131.	4.4	33

#	ARTICLE	IF	CITATIONS
73	Selective Host-Guest Interaction between Metal Ions and Metal-Organic Frameworks Using Dynamic Nuclear Polarization Enhanced Solid-State NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2014, 20, 16308-16313.	3.3	35
74	Indirectly detected heteronuclear correlation solid-state NMR spectroscopy of naturally abundant <sup>15</sup> N nuclei. <i>Solid State Nuclear Magnetic Resonance</i> , 2014, 57-58, 17-21.	2.3	54
75	Mechanism of Solid-State Thermolysis of Ammonia Borane: A <sup>15</sup> N NMR Study Using Fast Magic-Angle Spinning and Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19548-19555.	3.1	56
76	Dry mechanochemical synthesis of alane from LiH and AlCl <sub>3</sub> . <i>Faraday Discussions</i> , 2014, 170, 137-153.	3.2	20
77	Analysis of sensitivity enhancement by dynamic nuclear polarization in solid-state NMR: a case study of functionalized mesoporous materials. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5553.	2.8	76
78	Mesoporous Silica Nanoparticles Loaded with Surfactant: Low Temperature Magic Angle Spinning <sup>13</sup> C and <sup>29</sup> Si NMR Enhanced by Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1375-1382.	3.1	128
79	Solvent-Induced Reversal of Activities between Two Closely Related Heterogeneous Catalysts in the Aldol Reaction. <i>ACS Catalysis</i> , 2013, 3, 265-271.	11.2	54
80	Supported Hybrid Enzyme-Organocatalysts for Upgrading the Carbon Content of Alcohols. <i>ACS Symposium Series</i> , 2013, , 261-271.	0.5	4
81	Stabilizing unstable species through single-site isolation: a catalytically active TaV trialkyl in a porous organic polymer. <i>Chemical Science</i> , 2013, 4, 2483.	7.4	51
82	Determination of the Average Aromatic Cluster Size of Fossil Fuels by Solid-State NMR at High Magnetic Field. <i>Energy &amp; Fuels</i> , 2013, 27, 760-763.	5.1	7
83	Controlling reactivity of nanoporous catalyst materials by tuning reaction product-pore interior interactions: Statistical mechanical modeling. <i>Journal of Chemical Physics</i> , 2013, 138, 134705.	3.0	6
84	Study of Intermolecular Interactions in the Corrole Matrix by Solid-State NMR under 100...kHz MAS and Theoretical Calculations. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14108-14111.	13.8	86
85	Solid-State NMR Study of Li-Assisted Dehydrogenation of Ammonia Borane. <i>Inorganic Chemistry</i> , 2012, 51, 4108-4115.	4.0	14
86	Solid-State NMR Studies of Fossil Fuels using One- and Two-Dimensional Methods at High Magnetic Field. <i>Energy &amp; Fuels</i> , 2012, 26, 4405-4412.	5.1	11
87	Mechanochemical transformations in NaNH <sub>2</sub> -MgH <sub>2</sub> mixtures. <i>Journal of Alloys and Compounds</i> , 2012, 513, 324-327.	5.5	18
88	Spectral editing in <sup>13</sup> C solid-state NMR at high magnetic field using fast MAS and spin-echo dephasing. <i>Solid State Nuclear Magnetic Resonance</i> , 2012, 47-48, 19-22.	2.3	6
89	Selective and Efficient Silylation of Mesoporous Silica: A Quantitative Assessment of Synthetic Strategies by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7083-7090.	3.1	41
90	Substrate inhibition in the heterogeneous catalyzed aldol condensation: A mechanistic study of supported organocatalysts. <i>Journal of Catalysis</i> , 2012, 291, 63-68.	6.2	76

#	ARTICLE	IF	CITATIONS
91	Preface to Memorial Issue in Honor of Professor Victor S.-Y. Lin. ACS Catalysis, 2011, 1, 734-735.	11.2	0
92	Using a Reactive Force Field To Correlate Mobilities Obtained from Solid-State <sup>13</sup> C NMR on Mesoporous Silica Nanoparticle Systems. Journal of Physical Chemistry C, 2011, 115, 16333-16339.	3.1	19
93	Interplay between Anomalous Transport and Catalytic Reaction Kinetics in Single-File Nanoporous Systems. ACS Catalysis, 2011, 1, 751-763.	11.2	13
94	Rational Catalyst Design: A Multifunctional Mesoporous Silica Catalyst for Shifting the Reaction Equilibrium by Removal of Byproduct. ACS Catalysis, 2011, 1, 729-732.	11.2	42
95	Investigation of the thermochemical transformations in the LiAlH <sub>4</sub> –LiNH <sub>2</sub> system. International Journal of Hydrogen Energy, 2011, 36, 10626-10634.	7.1	16
96	Probing Quadrupolar Nuclei by Solid-State NMR Spectroscopy: Recent Advances. Topics in Current Chemistry, 2011, 306, 119-188.	4.0	56
97	Molecular ordering of mixed surfactants in mesoporous silicas: A solid-state NMR study. Solid State Nuclear Magnetic Resonance, 2011, 39, 65-71.	2.3	26
98	Catalytic conversion reactions mediated by single-file diffusion in linear nanopores: Hydrodynamic versus stochastic behavior. Journal of Chemical Physics, 2011, 134, 114107.	3.0	10
99	Urea and Thiourea-Functionalized Mesoporous Silica Nanoparticle Catalysts with Enhanced Catalytic Activity for Diels–Alder Reaction. Topics in Catalysis, 2010, 53, 187-191.	2.8	47
100	Calcium Containing Silicate Mixed Oxide-Based Heterogeneous Catalysts for Biodiesel Production. Topics in Catalysis, 2010, 53, 746-754.	2.8	27
101	Homonuclear dipolar decoupling under fast MAS: Resolution patterns and simple optimization strategy. Journal of Magnetic Resonance, 2010, 203, 144-149.	2.1	29
102	Conformations of Silica-Bound (Pentafluorophenyl)propyl Groups Determined by Solid-State NMR Spectroscopy and Theoretical Calculations. Journal of the American Chemical Society, 2010, 132, 12452-12457.	13.7	49
103	Characterization of Nanostructured Organic-Inorganic Hybrid Materials Using Advanced Solid-State NMR Spectroscopy. Materials Research Society Symposia Proceedings, 2009, 1184, 171.	0.1	0
104	Directly and indirectly detected through-bond heteronuclear correlation solid-state NMR spectroscopy under fast MAS. Journal of Magnetic Resonance, 2009, 201, 165-174.	2.1	71
105	A solid-state NMR investigation of the structure of mesoporous silica nanoparticle supported rhodium catalysts. Solid State Nuclear Magnetic Resonance, 2009, 35, 82-86.	2.3	27
106	Indirectly detected through-bond chemical shift correlation NMR spectroscopy in solids under fast MAS: Studies of organic–inorganic hybrid materials. Journal of Magnetic Resonance, 2009, 196, 92-95.	2.1	85
107	Solid-State NMR Investigations of the Immobilization of a BF <sub>4</sub> <sup>-</sup> Salt of a Palladium(II) Complex on Silica. Journal of the American Chemical Society, 2009, 131, 11801-11810.	13.7	34
108	Temperature Responsive Solution Partition of Organic–Inorganic Hybrid Poly( <i>N</i> -isopropylacrylamide)-Coated Mesoporous Silica Nanospheres. Advanced Functional Materials, 2008, 18, 1390-1398.	14.9	129

#	ARTICLE	IF	CITATIONS
109	Determination of $^{27}\text{Al}$ - $^{29}\text{Si}$ connectivities in zeolites with 2D $^{27}\text{Al}$ - $^{29}\text{Si}$ RAPT-CPMG-HETCOR NMR. Solid State Nuclear Magnetic Resonance, 2008, 33, 76-81.	2.3	24
110	Comparison of Nitroaldol Reaction Mechanisms Using Accurate Ab Initio Calculations. Journal of Physical Chemistry A, 2008, 112, 10635-10649.	2.5	9
111	Easily Prepared Chiral Scorpionates: Tris(2-oxazolonyl)boratoiridium(III) Compounds and Their Interactions with MeOTf. Inorganic Chemistry, 2008, 47, 10208-10210.	4.0	21
112	An Interface between the Universal Force Field and the Effective Fragment Potential Method. Journal of Physical Chemistry B, 2008, 112, 12753-12760.	2.6	6
113	Chemical Shift Correlation NMR Spectroscopy with Indirect Detection in Fast Rotating Solids: Studies of Organically Functionalized Mesoporous Silicas. Journal of the American Chemical Society, 2007, 129, 12076-12077.	13.7	118
114	Characterization of Covalent Linkages in Organically Functionalized MCM-41 Mesoporous Materials by Solid-State NMR and Theoretical Calculations. Journal of Physical Chemistry B, 2007, 111, 3877-3885.	2.6	48
115	Mesoporous Aluminum Silicate Catalyst with Single-Type Active Sites: Characterization by Solid-State NMR and Studies of Reactivity for Claisen Rearrangement Reactions. Journal of Physical Chemistry C, 2007, 111, 1480-1486.	3.1	16
116	Mechanochemical transformations in $\text{Li}(\text{Na})\text{AlH}_4$ - $\text{Li}(\text{Na})\text{NH}_2$ systems. Acta Materialia, 2007, 55, 3121-3130.	7.9	39
117	Template Removal and Thermal Stability of Organically Functionalized Mesoporous Silica Nanoparticles. Chemistry of Materials, 2006, 18, 4319-4327.	6.7	70
118	SPAM-MQ-HETCOR: an improved method for heteronuclear correlation spectroscopy between quadrupolar and spin-1/2 nuclei in solid-state NMR. Physical Chemistry Chemical Physics, 2006, 8, 144-150.	2.8	41
119	Modification of H-ZSM-5 zeolites with phosphorus. 1. Identification of aluminum species by $^{27}\text{Al}$ solid-state NMR and characterization of their catalytic properties. Microporous and Mesoporous Materials, 2006, 95, 286-295.	4.4	90
120	Catalytic oxidation of a thioether and dibenzothiophenes using an oxorhenium(V) dithiolate complex tethered on silica. Journal of Molecular Catalysis A, 2006, 243, 158-169.	4.8	26
121	Dialkylaminopyridine-Functionalized Mesoporous Silica Nanosphere as an Efficient and Highly Stable Heterogeneous Nucleophilic Catalyst. Journal of the American Chemical Society, 2005, 127, 13305-13311.	13.7	171
122	Relationship Between Water Mobility and Viscosity of Nanometric Alumina Suspensions. Journal of the American Ceramic Society, 2005, 88, 2762-2768.	3.8	24
123	Cooperative Catalysis by General Acid and Base Bifunctionalized Mesoporous Silica Nanospheres. Angewandte Chemie - International Edition, 2005, 44, 1826-1830.	13.8	335
124	Studies of Organically Functionalized Mesoporous Silicas Using Heteronuclear Solid-State Correlation NMR Spectroscopy under Fast Magic Angle Spinning. Journal of the American Chemical Society, 2005, 127, 7587-7593.	13.7	113
125	Solid-State NMR Study of MCM-41-type Mesoporous Silica Nanoparticles. Journal of the American Chemical Society, 2005, 127, 3057-3068.	13.7	235
126	Probing through bond connectivities with MQMAS NMR. Solid State Nuclear Magnetic Resonance, 2004, 26, 51-55.	2.3	55



#	ARTICLE	IF	CITATIONS
127	Solid-state $^{27}\text{Al}$ NMR investigation of thermal decomposition of $\text{LiAlH}_4$ . <i>Journal of Solid State Chemistry</i> , 2004, 177, 648-653.	2.9	63
128	Gatekeeping Layer Effect: A Poly(lactic acid)-coated Mesoporous Silica Nanosphere-Based Fluorescence Probe for Detection of Amino-Containing Neurotransmitters. <i>Journal of the American Chemical Society</i> , 2004, 126, 1640-1641.	13.7	230
129	Controlling the Selectivity of Competitive Nitroaldol Condensation by Using a Bifunctionalized Mesoporous Silica Nanosphere-Based Catalytic System. <i>Journal of the American Chemical Society</i> , 2004, 126, 1010-1011.	13.7	188
130	Organic Functionalization and Morphology Control of Mesoporous Silicas via a Co-Condensation Synthesis Method. <i>Chemistry of Materials</i> , 2003, 15, 4247-4256.	6.7	734
131	$^{31}\text{P}$ NMR and IR characterization of enantioselective olefin and arene hydrogenation catalysts containing a rhodium-chiral phosphine complex tethered on silica. <i>Journal of Molecular Catalysis A</i> , 2003, 195, 63-82.	4.8	16
132	Tuning of particle morphology and pore properties in mesoporous silicas with multiple organic functional groups. Electronic supplementary information (ESI) available: experimental details, SEM images, $\text{N}_2$ adsorption isotherms, pore size distributions, TEM images, and details of solid state $^{13}\text{C}$ and $^{29}\text{Si}$ NMR experiments. See <a href="http://www.rsc.org/suppdata/cc/b3/b306255d/">http://www.rsc.org/suppdata/cc/b3/b306255d/</a> . <i>Chemical Communications</i> , 2003, , 2364.	4.1	142
133	$^{17}\text{O}$ MAS and $^{29}\text{Si}$ MAS NMR Investigation of Crystalline $\text{V}_2\text{O}_5$ and Layered $\text{V}_2\text{O}_5 \cdot n\text{H}_2\text{O}$ Gels. <i>Journal of the American Chemical Society</i> , 2002, 124, 8435-8444.	13.7	43
134	Oxidative Polymerization of 1,4-Diethynylbenzene into Highly Conjugated Poly(phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td Materials. <i>Journal of the American Chemical Society</i> , 2002, 124, 9040-9041.	13.7	128
135	Mechanically Induced Solid-State Generation of Phosphorus Ylides and the Solvent-Free Wittig Reaction. <i>Journal of the American Chemical Society</i> , 2002, 124, 6244-6245.	13.7	207
136	A Kinetic Study on the Adsorption and Reaction of Hydrogen over Silica-Supported Ruthenium and Silver-Ruthenium Catalysts during the Hydrogenation of Carbon Monoxide. <i>Journal of Catalysis</i> , 1999, 188, 186-202.	6.2	44
137	Isomerization of the Prenucleation Building Unit during Crystallization of $\text{AlPO}_4\text{-CJ2}$ : An MQMAS, CP-MQMAS, and HETCOR NMR Study. <i>Journal of the American Chemical Society</i> , 1999, 121, 12148-12153.	13.7	102
138	The role of alkali promoters in Fischer-Tropsch synthesis on $\text{Ru}/\text{SiO}_2$ surfaces. <i>Topics in Catalysis</i> , 1995, 2, 59-69.	2.8	13
139	Dynamics of hydrogen at the surface of supported ruthenium. <i>Physical Review B</i> , 1994, 49, 2730-2738.	3.2	26
140	Adsorption, desorption, and interparticle motion of hydrogen on silica-supported ruthenium: A study by in situ nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 1994, 101, 7262-7272.	3.0	18
141	Determination of proton densities on silica gel catalyst supports by n-quantum coherence in NMR. <i>Analytica Chimica Acta</i> , 1993, 283, 1059-1079.	5.4	9
142	Quantitation of Protons in the Argonne Premium Coals by Solid-State $^1\text{H}$ NMR Spectroscopy. <i>Advances in Chemistry Series</i> , 1992, , 359-376.	0.6	3
143	Characterization of the Argonne premium coals by using hydrogen-1 and carbon-13 NMR and FT-IR spectroscopies. <i>Energy &amp; Fuels</i> , 1992, 6, 460-468.	5.1	40
144	Calcichrome: a re-examination of its structure and chemical properties by solid- and liquid-state NMR, infrared spectroscopy, and selective chemical degradation. <i>Analytica Chimica Acta</i> , 1989, 217, 31-42.	5.4	7

#	ARTICLE	IF	CITATIONS
145	Mobilities of hydrogen in solvent-swollen coals. A study by pulsed NMR. Energy & Fuels, 1987, 1, 45-50.	5.1	27