

# Shenhui Li

## List of Publications by Year in descending order

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46  
papers

1,651  
citations

394421

19  
h-index

289244

40  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1967  
citing authors

#	ARTICLE	IF	CITATIONS
1	Brønsted/Lewis Acid Synergy in Dealuminated HY Zeolite: A Combined Solid-State NMR and Theoretical Calculation Study. <i>Journal of the American Chemical Society</i> , 2007, 129, 11161-11171.	13.7	349
2	Acidic Properties and Structure–Activity Correlations of Solid Acid Catalysts Revealed by Solid-State NMR Spectroscopy. <i>Accounts of Chemical Research</i> , 2016, 49, 655-663.	15.6	177
3	Solid-State Reversible Quadratic Nonlinear Optical Molecular Switch with an Exceptionally Large Contrast. <i>Advanced Materials</i> , 2013, 25, 4159-4163.	21.0	136
4	Extra-framework aluminium species in hydrated faujasite zeolite as investigated by two-dimensional solid-state NMR spectroscopy and theoretical calculations. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3895.	2.8	92
5	Understanding Surface and Interfacial Chemistry in Functional Nanomaterials via Solid-State NMR. <i>Advanced Materials</i> , 2017, 29, 1605895.	21.0	91
6	Self-Assembly of Cetyltrimethylammonium Bromide and Lamellar Zeolite Precursor for the Preparation of Hierarchical MWW Zeolite. <i>Chemistry of Materials</i> , 2016, 28, 4512-4521.	6.7	88
7	Theoretical Investigation of the Effects of the Zeolite Framework on the Stability of Carbenium Ions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7429-7439.	3.1	83
8	Second-Order Nonlinear Optical Switch of a New Hydrogen-Bonded Supramolecular Crystal with a High Laser-Induced Damage Threshold. <i>Advanced Optical Materials</i> , 2014, 2, 1199-1205.	7.3	55
9	Recent Advances of Solid-State NMR Spectroscopy for Microporous Materials. <i>Advanced Materials</i> , 2020, 32, e2002879.	21.0	50
10	New Insights into the Effects of Acid Strength on the Solid Acid-Catalyzed Reaction: Theoretical Calculation Study of Olefinic Hydrocarbon Protonation Reaction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10254-10264.	3.1	41
11	Dual Active Sites on Molybdenum/ZSM-5 Catalyst for Methane Dehydroaromatization: Insights from Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10709-10715.	13.8	39
12	π-π Interactions between Cyclic Carbocations and Aromatics Cause Zeolite Deactivation in Methanol-to-Hydrocarbon Conversion. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7198-7202.	13.8	35
13	Strong or weak acid, which is more efficient for Beckmann rearrangement reaction over solid acid catalysts?. <i>Catalysis Science and Technology</i> , 2015, 5, 3675-3681.	4.1	32
14	Host–Guest Interactions in Dealuminated HY Zeolite Probed by <sup>13</sup> C– <sup>27</sup> Al Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3068-3072.	4.6	31
15	Highly efficient visible light induced photocatalytic activity of a novel in situ synthesized conjugated microporous poly(benzothiadiazole)-C <sub>3</sub> N <sub>4</sub> composite. <i>Catalysis Science and Technology</i> , 2017, 7, 418-426.	4.1	30
16	Molecular Visers for Precisely Positioning Ligands near Catalytic Metal Centers in Metal–Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 16182-16187.	13.7	29
17	Methanol carbonylation over copper-modified mordenite zeolite: A solid-state NMR study. <i>Solid State Nuclear Magnetic Resonance</i> , 2016, 80, 1-6.	2.3	26
18	Solid-state NMR Studies of Host–Guest Interaction between UiO-67 and Light Alkane at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14261-14268.	3.1	25

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19	Isolated $\pi$ -Interaction Sites in Mesoporous MOF Backbone for Repetitive and Reversible Dynamics in Water. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 973-981.	8.0	25
20	Bistable $\text{H}\cdots\text{N}$ hydrogen bonds for reversibly modulating the dynamic motion in an organic co-crystal. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10868-10872.	2.8	20
21	Unraveling Hydrocarbon Pool Boosted Propane Aromatization on Gallium/ZSM-5 Zeolite by Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23630-23634.	13.8	15
22	Polarization Switching Induced by Slowing the Dynamic Swinglike Motion in a Flexible Organic Dielectric. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27571-27576.	3.1	14
23	Application of solid-state NMR techniques for structural characterization of metal-organic frameworks. <i>Solid State Nuclear Magnetic Resonance</i> , 2022, 117, 101772.	2.3	14
24	Host-guest interaction of styrene and ethylbenzene in MIL-53 studied by solid-state NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2018, 90, 1-6.	2.3	13
25	Host-Guest Interaction between Methanol and Metal-Organic Framework $\text{Cu}_3\text{Zn}(\text{btc})_2$ as Revealed by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24062-24070.	3.1	12
26	Quantitative Analysis of Linker Composition and Spatial Arrangement of Multivariate Metal-Organic Framework UiO-66 through $^1\text{H}$ Fast MAS NMR. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17640-17647.	3.1	12
27	Primary Adsorption Sites of Light Alkanes in Multivariate UiO-66 at Room Temperature as Revealed by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3738-3746.	3.1	12
28	$^{13}\text{C}$ and $^{15}\text{N}$ spectral editing inside histidine imidazole ring through solid-state NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2013, 54, 13-17.	2.3	11
29	Breathing Effect via Solvent Inclusions on the Linker Rotational Dynamics of Functionalized MIL-53. <i>Chemistry - A European Journal</i> , 2021, 27, 14711-14720.	3.3	9
30	Insight into Carbocation-Induced Noncovalent Interactions in the Methanol-to-Olefins Reaction over ZSM-5 Zeolite by Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26847-26854.	13.8	9
31	Paramagnetic relaxation enhancement solid-state NMR studies of heterogeneous catalytic reaction over HY zeolite using natural abundance reactant. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 66-67, 29-32.	2.3	8
32	Observation of $^1\text{H}\cdots^{13}\text{C}$ and $^1\text{H}\cdots^1\text{H}$ proximities in a paramagnetic solid by NMR at high magnetic field under ultra-fast MAS. <i>Journal of Magnetic Resonance</i> , 2015, 251, 36-42.	2.1	8
33	Molecular Dynamics of Neutral Polymer Bonding Agent (NPBA) as Revealed by Solid-State NMR Spectroscopy. <i>Molecules</i> , 2014, 19, 1353-1366.	3.8	7
34	Solid-State NMR studies of the acidity of functionalized metal-organic framework UiO-66 materials. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 1091-1098.	1.9	7
35	$\pi$ -Interactions between Cyclic Carbocations and Aromatics Cause Zeolite Deactivation in Methanol-to-Hydrocarbon Conversion. <i>Angewandte Chemie</i> , 2020, 132, 7265-7269.	2.0	7
36	Multiple Methane Activation Pathways on Ga-modified ZSM-5 Zeolites Revealed by Solid-State NMR Spectroscopy. <i>ChemCatChem</i> , 2020, 12, 3880-3889.	3.7	7

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37	Host-Guest Interaction in Ethylene and Ethane Separation on Zeolitic Imidazolate Frameworks as Revealed by Solid-State NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2021, 27, 11303-11308.	3.3	7
38	Pairwise Stereoselective Hydrogenation of Propyne on Supported Pd-Ag Catalysts Investigated by Parahydrogen-Induced Polarization. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17144-17154.	3.1	6
39	Intramolecular $^1\text{H}$ - $^{13}\text{C}$ distance measurement in uniformly $^{13}\text{C}$ , $^{15}\text{N}$ labeled peptides by solid-state NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2012, 45-46, 51-58.	2.3	4
40	Preferential adsorption sites for propane/propylene separation on ZIF-8 as revealed by solid-state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6535-6543.	2.8	4
41	Valence state alternation of copper species doped in HY zeolite as revealed by paramagnetic relaxation enhancement NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2016, 74-75, 10-15.	2.3	3
42	Dual Active Sites on Molybdenum/ZSM-5 Catalyst for Methane Dehydroaromatization: Insights from Solid-State NMR Spectroscopy. <i>Angewandte Chemie</i> , 2021, 133, 10804-10810.	2.0	2
43	Insight into Carbocation Induced Noncovalent Interactions in Methanol-to-Olefins Reaction over ZSM-5 Zeolite from Solid-State NMR Spectroscopy. <i>Angewandte Chemie</i> , 0, , .	2.0	2
44	Heterogeneous parahydrogen induced polarization on Rh-containing silicalite-1 zeolites: effect of the catalyst structure on signal enhancement. <i>Catalysis Science and Technology</i> , 2022, 12, 4442-4449.	4.1	2
45	Unraveling Hydrocarbon Pool Boosted Propane Aromatization on Gallium/ZSM-5 Zeolite by Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Angewandte Chemie</i> , 2021, 133, 23822-23826.	2.0	1
46	Titelbild: Insight into Carbocation-Induced Noncovalent Interactions in the Methanol-to-Olefins Reaction over ZSM-5 Zeolite by Solid-State NMR Spectroscopy ( <i>Angew. Chem.</i> 51/2021). <i>Angewandte Chemie</i> , 2021, 133, 26617-26617.	2.0	0