Wei-Chih Liao

List of Publications by Year
in descending order

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28	1,418	471509 17	477307 29
papers	citations	h-index	g-index

29	29	29	2037
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural Role and Spatial Distribution of Carbonate Ions in Amorphous Calcium Phosphate. Journal of Physical Chemistry C, 2021, 125, 4675-4693.	3.1	18
2	The Carbonate and Sodium Environments in Precipitated and Biomimetic Calcium Hydroxy-Carbonate Apatite Contrasted with Bone Mineral: Structural Insights from Solid-State NMR. Journal of Physical Chemistry C, 2021, 125, 10572-10592.	3.1	16
3	DNP-SENS Formulation Protocols To Study Surface Sites in Zieglerâ€“Natta Catalyst MgCl₂ Supports Modified with Internal Donors. Journal of Physical Chemistry C, 2021, 125, 15994-16003.	3.1	16
4	DNP NMR spectroscopy of cross-linked organic polymers: rational guidelines towards optimal sample preparation. Physical Chemistry Chemical Physics, 2020, 22, 3184-3190.	2.8	13
5	Metalâ€Surface Interactions and Surface Heterogeneity in â€˜Wellâ€Definedâ€™ Silicaâ€Supported Alkene Metathesis Catalysts: Evidences and Consequences. Helvetica Chimica Acta, 2020, 103, e2000072.	1.6	10
6	Molecular and Silicaâ€Supported Mo and W d⁰ Imidoâ€Methoxybenzylidene Complexes: Structure and Metathesis Activity. Helvetica Chimica Acta, 2019, 102, e1900190.	1.6	5
7	Silicateâ€Phenolic Networks: Coordinationâ€Mediated Deposition of Bioinspired Tannic Acid Coatings. Chemistry - A European Journal, 2019, 25, 9870-9874.	3.3	20
8	Ionic Conduction Mechanism in the Na₂(B₁₂H₁₂)_{0.5}(B₁₀H₁₀)_{0.5} closo-Borate Solid-State Electrolyte: Interplay of Disorder and Ionâ€“Ion Interactions. Chemistry of Materials, 2019, 31, 3449-3460.	6.7	54
9	One- and Two-Dimensional High-Resolution NMR from Flat Surfaces. ACS Central Science, 2019, 5, 515-523.	11.3	17
10	Dynamic Nuclear Polarization Surface Enhanced NMR spectroscopy (DNP SENS): Principles, protocols, and practice. Current Opinion in Colloid and Interface Science, 2018, 33, 63-71.	7.4	58
11	Discerning Î³-Alumina Surface Sites with Nitrogen-15 Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy of Adsorbed Pyridine. Journal of Physical Chemistry C, 2018, 122, 10871-10882.	3.1	45
12	In Situ XRD and Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy Unravel the Deactivation Mechanism of CaO-Based, Ca₃Al₂O₆-Stabilized CO₂ Sorbents. Chemistry of Materials, 2018, 30, 1344-1352.	6.7	40
13	Nucleation and crystal formation in lithium disilicateâ€apatite glassâ€ceramic from a combined use of Xâ€ray diffraction, solidâ€state NMR, and microscopy. Helvetica Chimica Acta, 2018, 102, e1800210.	1.6	2
14	Electronic Structureâ€“Reactivity Relationship on Ruthenium Step-Edge Sites from Carbonyl 13C Chemical Shift Analysis. Journal of Physical Chemistry Letters, 2018, 9, 3348-3353.	4.6	9
15	CO₂â€toâ€Methanol Hydrogenation on Zirconiaâ€Supported Copper Nanoparticles: Reaction Intermediates and the Role of the Metalâ€“Support Interface. Angewandte Chemie - International Edition, 2017, 56, 2318-2323.	13.8	435
16	Orbital Analysis of Carbonâ€13 Chemical Shift Tensors Reveals Patterns to Distinguish Fischer and Schrock Carbenes. Angewandte Chemie - International Edition, 2017, 56, 10127-10131.	13.8	57
17	Orbital Analysis of Carbonâ€13 Chemical Shift Tensors Reveals Patterns to Distinguish Fischer and Schrock Carbenes. Angewandte Chemie, 2017, 129, 10261-10265.	2.0	13
18	Metathesis Activity Encoded in the Metallacyclobutane Carbon-13 NMR Chemical Shift Tensors. ACS Central Science, 2017, 3, 759-768.	11.3	84

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19	CO₂â€toâ€Methanol Hydrogenation on Zirconiaâ€Supported Copper Nanoparticles: Reaction Intermediates and the Role of the Metalâ€“Support Interface. Angewandte Chemie, 2017, 129, 2358-2363.	2.0	51
20	Molecular Structure and Confining Environment of Sn Sites in Single-Site Chabazite Zeolites. Chemistry of Materials, 2017, 29, 8824-8837.	6.7	44
21	Exploiting and Understanding the Selectivity of Ru-N-Heterocyclic Carbene Metathesis Catalysts for the Ethenolysis of Cyclic Olefins to Î±,Ï‰-Dienes. Journal of the American Chemical Society, 2017, 139, 13117-13125.	13.7	70
22	Proteinâ€“nucleotide contacts in motor proteins detected by DNP-enhanced solid-state NMR. Journal of Biomolecular NMR, 2017, 69, 157-164.	2.8	19
23	Molecular and Silica-Supported Molybdenum Alkyne Metathesis Catalysts: Influence of Electronics and Dynamics on Activity Revealed by Kinetics, Solid-State NMR, and Chemical Shift Analysis. Journal of the American Chemical Society, 2017, 139, 17597-17607.	13.7	80
24	Active Sites in Supported Single-Site Catalysts: An NMR Perspective. Journal of the American Chemical Society, 2017, 139, 10588-10596.	13.7	103
25	Dendritic polarizing agents for DNP SENS. Chemical Science, 2017, 8, 416-422.	7.4	35
26	Atomistic Description of Reaction Intermediates for Supported Metathesis Catalysts Enabled by DNP SENS. Angewandte Chemie, 2016, 128, 4821-4825.	2.0	6
27	Identifying Sn Site Heterogeneities Prevalent Among Snâ€Beta Zeolites. Helvetica Chimica Acta, 2016, 99, 916-927.	1.6	44
28	Atomistic Description of Reaction Intermediates for Supported Metathesis Catalysts Enabled by DNP SENS. Angewandte Chemie - International Edition, 2016, 55, 4743-4747.	13.8	52