Hsiu-Wen Wang

List of Publications by Year
in descending order

38	1,279	471509 17	345221 36
papers	citations	h-index	g-index

40	40	40	1964
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Resolving the Structure of Ti₃C₂T_x MXenes through Multilevel Structural Modeling of the Atomic Pair Distribution Function. Chemistry of Materials, 2016, 28, 349-359.	6.7	374
2	Multimodality of Structural, Electrical, and Gravimetric Responses of Intercalated MXenes to Water. ACS Nano, 2017, 11, 11118-11126.	14.6	183
3	Boehmite and Gibbsite Nanoplates for the Synthesis of Advanced Alumina Products. ACS Applied Nano Materials, 2018, 1, 7115-7128.	5.0	79
4	Structure and Stability of SnO₂ Nanocrystals and Surface-Bound Water Species. Journal of the American Chemical Society, 2013, 135, 6885-6895.	13.7	67
5	Pre-Sodiated Ti₃C₂T_x MXene Structure and Behavior as Electrode for Sodium-Ion Capacitors. ACS Nano, 2021, 15, 2994-3003.	14.6	54
6	Vibrational Density of States of Strongly H-Bonded Interfacial Water: Insights from Inelastic Neutron Scattering and Theory. Journal of Physical Chemistry C, 2014, 118, 10805-10813.	3.1	48
7	Multi-scale characterization of pore evolution in a combustion metamorphic complex, Hatrurim basin, Israel: Combining (ultra) small-angle neutron scattering and image analysis. Geochimica Et Cosmochimica Acta, 2013, 121, 339-362.	3.9	42
8	Multiscale and Multimodal Characterization of 2D Titanium Carbonitride MXene. Advanced Materials Interfaces, 2020, 7, 1902207.	3.7	35
9	In Situ ²⁷Al NMR Spectroscopy of Aluminate in Sodium Hydroxide Solutions above and below Saturation with Respect to Gibbsite. Inorganic Chemistry, 2018, 57, 11864-11873.	4.0	33
10	Synthesis and structure of synthetically pure and deuterated amorphous (basic) calcium carbonates. Chemical Communications, 2017, 53, 2942-2945.	4.1	28
11	DShaper: an approach for handling missing low-Qdata in pair distribution function analysis of nanostructured systems. Journal of Applied Crystallography, 2015, 48, 1651-1659.	4.5	23
12	A PH2O-dependent structural phase transition in the zeolite natrolite. American Mineralogist, 2008, 93, 1191-1194.	1.9	20
13	Precise determination of water exchanges on a mineral surface. Physical Chemistry Chemical Physics, 2016, 18, 28819-28828.	2.8	20
14	Transformation of Gibbsite to Boehmite in Caustic Aqueous Solution at Hydrothermal Conditions. Crystal Growth and Design, 2019, 19, 5557-5567.	3.0	19
15	Countercations Control Local Specific Bonding Interactions and Nucleation Mechanisms in Concentrated Water-in-Salt Solutions. Journal of Physical Chemistry Letters, 2019, 10, 3318-3325.	4.6	19
16	Ionâ€“ion interactions enhance aluminum solubility in alkaline suspensions of nano-gibbsite (Î±-Al(OH)₃) with sodium nitrite/nitrate. Physical Chemistry Chemical Physics, 2020, 22, 4368-4378.	2.8	19
17	The nano- and meso-scale structure of amorphous calcium carbonate. Scientific Reports, 2022, 12, 6870.	3.3	19
18	Phase transitions in natural zeolites and the importance ofP_{H₂O}. Philosophical Magazine, 2010, 90, 2425-2441.	1.6	18

#	Article	IF	Citations
19	Combinatorial appraisal of transition states for in situ pair distribution function analysis. Journal of Applied Crystallography, 2017, 50, 1744-1753.	4.5	18
20	Structure determination of the 2.5 hydrate MgSO4 phase by simulated annealing. American Mineralogist, 2009, 94, 1071-1074.	1.9	17
21	Decoding Oxyanion Aqueous Solvation Structure: A Potassium Nitrate Example at Saturation. Journal of Physical Chemistry B, 2018, 122, 7584-7589.	2.6	14
22	Resolving local configurational contributions to X-ray and neutron radial distribution functions within solutions of concentrated electrolytes â€“ a case study of concentrated NaOH. Physical Chemistry Chemical Physics, 2019, 21, 6828-6838.	2.8	14
23	An Atomistic Carbide-Derived Carbon Model Generated Using ReaxFF-Based Quenched Molecular Dynamics. Journal of Carbon Research, 2017, 3, 32.	2.7	13
24	Coupled Multimodal Dynamics of Hydrogen-Containing Ion Networks in Water-Deficient, Sodium Hydroxide-Aluminate Solutions. Journal of Physical Chemistry B, 2018, 122, 12097-12106.	2.6	12
25	X-ray diffraction study of the zeolite natrolite: TPH2O phase diagram and phase transitions during dehydration/rehydration. European Journal of Mineralogy, 2010, 22, 271-284.	1.3	10
26	Solvothermal Synthesis and Surface Chemistry To Control the Size and Morphology of Nanoquartz. Crystal Growth and Design, 2015, 15, 5327-5331.	3.0	10
27	Structure and dynamics of water on the forsterite surface. Physical Chemistry Chemical Physics, 2018, 20, 27822-27829.	2.8	10
28	Hydroxide promotes ion pairing in the NaNO₂â€“NaOHâ€“H₂O system. Physical Chemistry Chemical Physics, 2021, 23, 112-122.	2.8	8
29	Local molecular environment drives speciation and reactivity of ion complexes in concentrated salt solution. Journal of Molecular Liquids, 2021, 340, 116898.	4.9	8
30	Solution and Interface Structure and Dynamics in Geochemistry: Gateway to Link Elementary Processes to Mineral Nucleation and Growth. Crystal Growth and Design, 2022, 22, 853-870.	3.0	8
31	Local structural distortion and electrical transport properties of Bi(Ni1/2Ti1/2)O3 perovskite under high pressure. Scientific Reports, 2016, 5, 18229.	3.3	7
32	The â€œgood,â€•the â€œbad,â€•and the â€œhiddenâ€•in neutron scattering and molecular dynamics of ionic aqueous solutions. Journal of Chemical Physics, 2022, 156, .	3.0	6
33	Cluster defects in gibbsite nanoplates grown at acidic to neutral pH. Nanoscale, 2021, 13, 17373-17385.	5.6	5
34	Pressure/temperature fluid cell apparatus for the neutron powder diffractometer instrument: Probing atomic structure in situ. Review of Scientific Instruments, 2014, 85, 125116.	1.3	4
35	Pair distribution function analysis applied to decahedral gold nanoparticles. Physica Scripta, 2017, 92, 114002.	2.5	4
36	Theory-Guided Inelastic Neutron Scattering of Crystalline Alkaline Aluminate Salts Bearing Principal Motifs of Solution-State Species. Inorganic Chemistry, 2021, 60, 16223-16232.	4.0	4

#	Article	IF	Citations
37	PH2O-dependent structural phase transitions in the zeolite mesolite: Real- and reciprocal-space crystal structure refinements. American Mineralogist, 2010, 95, 686-698.	1.9	3
38	Infrared spectroscopic characterization of dehydration and accompanying phase transition behaviors in NAT-topology zeolites. Physics and Chemistry of Minerals, 2012, 39, 277-293.	0.8	3