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	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
2	The nano- and meso-scale structure of amorphous calcium carbonate. Scientific Reports, 2022, 12, 6870.	3.3	19
3	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
4	Hydroxide promotes ion pairing in the NaNO₂â€“NaOHâ€“H₂O system. Physical Chemistry Chemical Physics, 2021, 23, 112-122.	2.8	8
5	Local molecular environment drives speciation and reactivity of ion complexes in concentrated salt solution. Journal of Molecular Liquids, 2021, 340, 116898.	4.9	8
6	Pre-Sodiated Ti₃C₂T_x MXene Structure and Behavior as Electrode for Sodium-Ion Capacitors. ACS Nano, 2021, 15, 2994-3003.	14.6	54
7	Cluster defects in gibbsite nanoplates grown at acidic to neutral pH. Nanoscale, 2021, 13, 17373-17385.	5.6	5
8	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
9	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
10	Multiscale and Multimodal Characterization of 2D Titanium Carbonitride MXene. Advanced Materials Interfaces, 2020, 7, 1902207.	3.7	35
11	Transformation of Gibbsite to Boehmite in Caustic Aqueous Solution at Hydrothermal Conditions. Crystal Growth and Design, 2019, 19, 5557-5567.	3.0	19
12	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
13	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
14	Structure and dynamics of water on the forsterite surface. Physical Chemistry Chemical Physics, 2018, 20, 27822-27829.	2.8	10
15	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
16	Boehmite and Gibbsite Nanoplates for the Synthesis of Advanced Alumina Products. ACS Applied Nano Materials, 2018, 1, 7115-7128.	5.0	79
17	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
18	Decoding Oxyanion Aqueous Solvation Structure: A Potassium Nitrate Example at Saturation. Journal of Physical Chemistry B, 2018, 122, 7584-7589.	2.6	14

#	Article	IF	Citations
19	Synthesis and structure of synthetically pure and deuterated amorphous (basic) calcium carbonates. Chemical Communications, 2017, 53, 2942-2945.	4.1	28
20	Multimodality of Structural, Electrical, and Gravimetric Responses of Intercalated MXenes to Water. ACS Nano, 2017, 11, 11118-11126.	14.6	183
21	Pair distribution function analysis applied to decahedral gold nanoparticles. Physica Scripta, 2017, 92, 114002.	2.5	4
22	An Atomistic Carbide-Derived Carbon Model Generated Using ReaxFF-Based Quenched Molecular Dynamics. Journal of Carbon Research, 2017, 3, 32.	2.7	13
23	Combinatorial appraisal of transition states for in situ pair distribution function analysis. Journal of Applied Crystallography, 2017, 50, 1744-1753.	4.5	18
24	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
25	Precise determination of water exchanges on a mineral surface. Physical Chemistry Chemical Physics, 2016, 18, 28819-28828.	2.8	20
26	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
27	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
28	Solvothermal Synthesis and Surface Chemistry To Control the Size and Morphology of Nanoquartz. Crystal Growth and Design, 2015, 15, 5327-5331.	3.0	10
29	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
30	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
31	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
32	Structure and Stability of SnO₂ Nanocrystals and Surface-Bound Water Species. Journal of the American Chemical Society, 2013, 135, 6885-6895.	13.7	67
33	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
34	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
35	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
36	Phase transitions in natural zeolites and the importance ofP_{H₂O}. Philosophical Magazine, 2010, 90, 2425-2441.	1.6	18

#	Article	IF	Citations
37	Structure determination of the 2.5 hydrate MgSO4 phase by simulated annealing. American Mineralogist, 2009, 94, 1071-1074.	1.9	17
38	A PH2O-dependent structural phase transition in the zeolite natrolite. American Mineralogist, 2008, 93, 1191-1194.	1.9	20