

Xianze Meng

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Highly luminescent Eu ³⁺ -exchanged zeolite L crystals resulting from modification with silylated β^2 -diketone. <i>Journal of Materials Chemistry</i> , 2012, 22, 9338.	6.7	29
2	Improving permeability and anti-fouling performance in reverse osmosis application of polyamide thin film nanocomposite membrane modified with functionalized carbon nanospheres. <i>Separation and Purification Technology</i> , 2021, 270, 118828.	7.9	24
3	Study on the structure of aqueous potassium chloride solutions using the X-ray diffraction and Raman spectroscopy methods. <i>Journal of Molecular Structure</i> , 2015, 1081, 38-43.	3.6	18
4	Dual-stage nanofiltration seawater desalination: water quality, scaling and energy consumption. <i>Desalination and Water Treatment</i> , 2014, 52, 134-144.	1.0	16
5	Local structures and the dissolving behavior of aqueous ammonia and its KCl and NH ₄ Cl solutions: A Raman spectroscopy and X-ray scattering study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 162, 27-35.	3.9	15
6	Effect of pretreatments on the hydrogen evolution kinetics of pure titanium using impedance and SECM technologies. <i>Corrosion Science</i> , 2021, 191, 109726.	6.6	15
7	Interfacial Adsorption and Electron Properties of Water Molecule/Cluster on Anatase TiO ₂ (101) Surface: Raman and DFT Investigation. <i>Langmuir</i> , 2022, 38, 1057-1066.	3.5	10
8	Transfer model and kinetic characteristics of $\{m \text{ NH}_4^+\}$ $\hat{=}$ K ⁺ ion exchange on K-zeolite. <i>Transport in Porous Media</i> , 2008, 72, 71-82.	2.6	9
9	Synthesis of Mg/Al double-layered hydroxides for boron removal. <i>Desalination and Water Treatment</i> , 2014, 52, 1919-1927.	1.0	9
10	Estimating solubilities of ternary water-salt systems using simulated annealing algorithm based generalized regression neural network. <i>Fluid Phase Equilibria</i> , 2020, 505, 112357.	2.5	9
11	Local structure of NH ₄ Cl solution and its correlation with osmotic coefficient by molecular dynamics simulation and Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2020, 111, 103155.	2.2	9
12	In Situ Studies of Hydrogen Evolution Kinetics on Pure Titanium Surface: The Effects of Pre-Reduction and Dissolved Oxygen. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1828-1844.	3.1	9
13	Liquid-Solid Equilibrium of the KCl-NH ₄ Cl-NH ₃ -H ₂ O System with Different NH ₃ Contents at (273.15 and 298.15) K. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 1391-1397.	1.9	8
14	Granulation of short channel SBA-15 adsorbent and application for the removal of U(VI) by packed column. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 316, 49-59.	1.5	7
15	The Influence of Materials, Heterostructure, and Orientation for Nanohybrids on Photocatalytic Activity. <i>Nanoscale Research Letters</i> , 2019, 14, 20.	5.7	7
16	Concentration-dependent structure of mixed NH ₄ Cl and (NH ₄) ₂ SO ₄ aqueous solutions from the X-ray diffraction, Raman spectroscopy and molecular dynamics simulations. <i>Journal of Molecular Structure</i> , 2019, 1185, 469-477.	3.6	7
17	Complexation-Enhanced Boron Removal in a Dual-Stage Nanofiltration Seawater Desalination Process. <i>Separation Science and Technology</i> , 2013, 48, 1648-1656.	2.5	6
18	Influences of additives on the crystal habit of potassium chloride. <i>Frontiers of Chemical Engineering in China</i> , 2010, 4, 78-81.	0.6	5

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19	Quantitative study of the kinetics of hydrogen evolution reaction on aluminum surface and the influence of chloride ion. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 39665-39674.	7.1	5
20	Temperature-dependent structure of 3.5 wt.% NaCl aqueous solution: Theoretical and Raman investigation. <i>Journal of Molecular Structure</i> , 2022, 1253, 132279.	3.6	5
21	The trade-off effect of KCl and NH ₄ Cl on the hydrated structure in their mixed aqueous solutions. <i>Journal of Molecular Structure</i> , 2022, 1264, 133213.	3.6	5
22	Concentration-dependent structure of mixed (NH ₄) ₂ SO ₄ and K ₂ SO ₄ aqueous solutions using the X-ray diffraction, Raman spectroscopy and molecular dynamics simulations. <i>Vibrational Spectroscopy</i> , 2021, 116, 103292.	2.2	3
23	Measurements of Solid-Liquid Equilibria in Quaternary System LiBr-MgBr ₂ -KBr-H ₂ O and Its Two Ternary Systems (LiBr-MgBr ₂ -H ₂ O and MgBr ₂ -KBr-H ₂ O) at 288.15 and 308.15 K. <i>Journal of Chemical & Engineering Data</i> , 2022, 67, 1489-1499.	1.9	2
24	A combination process of mineral carbonation with SO ₂ disposal for simulated flue gas by magnesia-added seawater. <i>Frontiers of Chemical Science and Engineering</i> , 2019, 13, 832-844.	4.4	1
25	Phase Equilibrium of the Quaternary System LiBr-Li ₂ SO ₄ -KBr-K ₂ SO ₄ -H ₂ O at 308.15 K. <i>Processes</i> , 2022, 10, 823.	2.8	1
26	Solid-Liquid Equilibrium of the Quaternary System Ca ²⁺ , Mg ²⁺ //SO ₃ ²⁻ , SO ₄ ²⁻ -H ₂ O at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 0, , .	1.9	0
27	Facile Route to Synthesize Pore Expanded Platelet SBA-15 for Enhanced Amidoxime-Functionalization and Efficient Extraction of U(VI) from Aqueous Solution. <i>Journal of Ocean University of China</i> , 2020, 19, 1103-1115.	1.2	0
28	A comparative dynamic study of seawater pretreatment using experimental and pilot bubble tower. <i>Water Science and Technology</i> , 2021, 83, 803-817.	2.5	0