

Fayan Zhu

List of Publications by Year in descending order

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times ranked

239
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure analysis of aqueous Mg(NO ₃) ₂ solutions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 267, 120478.	3.9	5
2	Structure of phase change energy storage material Ca(NO ₃) ₂ ·4H ₂ O solution. Journal of Molecular Liquids, 2022, 356, 119010.	4.9	4
3	Structure of Aqueous CaCl ₂ Solutions by X-ray Scattering and Density Functional Theory. Russian Journal of Physical Chemistry A, 2022, 96, S68-S76.	0.6	4
4	A Study of the Structure of Aqueous Rubidium Tetraborate Solutions. Journal of Solution Chemistry, 2021, 50, 19-30.	1.2	0
5	Modified Calcium Chloride Hexahydrate Lotus Root Starch/Expanded Graphite Shape-Stabilized Composite Phase Change Materials: Enhanced Heat Storage, Improved Heat Transfer, and Suppressed Supercooling Behavior. Energy & Fuels, 2021, 35, 15126-15132.	5.1	8
6	Micro-Raman and density functional theory analyses of ion pairs in concentrated sodium tetrahydroxyborate droplets. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 224, 117308.	3.9	7
7	Mechanism for hydrolysis of double six-membered ring tetraborate anion. International Journal of Quantum Chemistry, 2020, 120, e26118.	2.0	3
8	Raman and ab initio analyses of ion pairs in concentrated K[B(OH) ₄] droplets. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 230, 118039.	3.9	5
9	The structural elucidation of aqueous H ₃ BO ₃ solutions by DFT and neutron scattering studies. Physical Chemistry Chemical Physics, 2020, 22, 17160-17170.	2.8	7
10	Ion hydration and association in aqueous potassium tetrahydroxyborate solutions. Analyst, The, 2020, 145, 2245-2255.	3.5	6
11	Ab-initio investigation on ion-associated species and association process in Li[B(OH) ₄] solution. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 213, 423-429.	3.9	5
12	Raman spectroscopy and ab initio quantum chemical calculations of ion association behavior in calcium nitrate solution. Journal of Raman Spectroscopy, 2018, 49, 852-861.	2.5	11
13	Ab Initio Investigation of the Micro-species in [CaCl ₂ (H ₂ O) _n] ²⁺ and Their Raman Spectra. Journal of Cluster Science, 2018, 29, 605-616.	3.3	4
14	Ab Initio Investigation of the Microspecies and Energy in Hydrated Strontium Ion Clusters. Molecular Physics, 2018, 116, 273-282.	1.7	6
15	Ion association in lithium metaborate solution: a Raman and ab initio insight. Physics and Chemistry of Liquids, 2017, 55, 186-195.	1.2	6
16	Phase change performance assessment of salt mixtures for thermal energy storage material. International Journal of Energy Research, 2017, 41, 1855-1866.	4.5	15
17	B(OH) ₄ ⁻ hydration and association in sodium metaborate solutions by X-ray diffraction and empirical potential structure refinement. Physical Chemistry Chemical Physics, 2017, 19, 27878-27887.	2.8	34
18	Microhydration of BH ₄ ⁻ : Dihydrogen Bonds, Structure, Stability, and Raman Spectra. Journal of Physical Chemistry A, 2017, 121, 9146-9155.	2.5	13

#	ARTICLE	IF	CITATIONS
19	Ab Initio Investigation of the Micro-species and Raman Spectra in Ca(NO ₃) ₂ Solution. Journal of Cluster Science, 2017, 28, 2293-2307.	3.3	2
20	The investigation of structure and IR spectra for hydrated potassium ion clusters K ⁺ (H ₂ O) _{n=1-16} by density functional theory*. European Physical Journal D, 2016, 70, 1.	1.3	9
21	Preparation and thermal energy storage studies of CH ₃ COONa·3H ₂ O·KCl composites salt system with enhanced phase change performance. Applied Thermal Engineering, 2016, 102, 708-715.	6.0	69
22	Structure of Aqueous Lithium Tetraborate Solution. Journal of Cluster Science, 2016, 27, 1131-1145.	3.3	8
23	Polyborates in aqueous borate solution: A Raman and DFT theory investigation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 83, 82-87.	3.9	71
24	Structure of aqueous sodium sulfate solutions derived from X-ray diffraction. Science Bulletin, 2009, 54, 2022-2027.	9.0	7