Yongquan Zhou

List of Publications by Year in descending order

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42	495	840776 11	752698 20
papers	citations	h-index	g-index

42	42	42	338
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The process and mechanism for cesium and rubidium extraction with saponified 4-tert-butyl-2-(Î±-methylbenzyl) phenol. Chinese Journal of Chemical Engineering, 2022, 46, 31-39.	3.5	6
2	Structure analysis of aqueous Mg(NO3)2 solutions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 267, 120478.	3.9	5
3	Structure of phase change energy storage material Ca(NO3)2Â·4H2O solution. Journal of Molecular Liquids, 2022, 356, 119010.	4.9	4
4	Structure of Aqueous CaCl2 Solutions by X-ray Scattering and Density Functional Theory. Russian Journal of Physical Chemistry A, 2022, 96, S68-S76.	0.6	4
5	Construction of Na2CO3Â·10H2O-Na2HPO4Â·12H2O eutectic hydrated salt/NiCo2O4-expanded graphite multidimensional phase change material. Journal of Energy Storage, 2022, 52, 104781.	8.1	5
6	Study on energy storage performance of thermally enhanced composite phase change material of calcium nitrate tetrahydrate. Journal of Energy Storage, 2022, 52, 104879.	8.1	1
7	Structures of 18-crown-6/Cs+ complexes in aqueous solutions by wide angle X-ray scattering and density functional theory. Journal of Molecular Liquids, 2022, 360, 119477.	4.9	1
8	Hydrogen bonds in aqueous choline chloride solutions by DFT calculations and X-ray scattering. Journal of Molecular Liquids, 2022, 362, 119742.	4.9	5
9	A Study of the Structure of Aqueous Rubidium Tetraborate Solutions. Journal of Solution Chemistry, 2021, 50, 19-30.	1.2	0
10	Structure of Ternary Nitrate Molten Salt (Hitec) by X-ray Scattering and Density Functional Theory. Russian Journal of Physical Chemistry A, 2021, 95, 1185-1193.	0.6	1
11	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
12	Microâ€“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
13	Mechanism for hydrolysis of double sixâ€membered ring tetraborate anion. International Journal of Quantum Chemistry, 2020, 120, e26118.	2.0	3
14	Local structure of a highly concentrated NaClO4 aqueous solution-type electrolyte for sodium ion batteries. Physical Chemistry Chemical Physics, 2020, 22, 26452-26458.	2.8	18
15	Selectivity of 18-crown-6 ether to alkali ions by density functional theory and molecular dynamics simulation. Journal of Molecular Liquids, 2020, 311, 113305.	4.9	18
16	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
17	Dihydrogen Bonds in Aqueous NaBD4 Solution by Neutron and X-ray Diffraction. Journal of Physical Chemistry Letters, 2020, 11, 1622-1628.	4.6	11
18	Structure of aqueous sodium acetate solutions by X-Ray scattering and density functional theory. Pure and Applied Chemistry, 2020, 92, 1627-1641.	1.9	4

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19	The structural elucidation of aqueous H₃BO₃ solutions by DFT and neutron scattering studies. Physical Chemistry Chemical Physics, 2020, 22, 17160-17170.	2.8	7
20	Ion hydration and association in aqueous potassium tetrahydroxyborate solutions. Analyst, The, 2020, 145, 2245-2255.	3.5	6
21	Phase Equilibrium in Aqueous Systems Containing Magnesium Borate. Russian Journal of Physical Chemistry A, 2019, 93, 1478-1483.	0.6	2
22	Experimental and theoretical investigations of Cs+ adsorption on crown ethers modified magnetic adsorbent. Journal of Hazardous Materials, 2019, 371, 712-720.	12.4	66
23	Ab-initio investigation on ionâ€“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
24	Structure of alkaline aqueous NaBH4 solutions by X-ray scattering and empirical potential structure refinement. Journal of Molecular Liquids, 2019, 274, 173-182.	4.9	10
25	5ï¼Žé«˜é»åœ§æ°´ç³»é»æ±ã®çŠ¶ç«‹ã,'ç›®æŒ‡ã•ãŸæ¿ƒåŽšæ°´ç³»é›»è§£æ¶². Denki Kagaku, 2019, 87, 220-226.	0.0	1
26	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
27	Ab Initio Investigation of the Micro-species in [CaCl2(H2O)nÂ=Â0â€“12] and Their Raman Spectra. Journal of Cluster Science, 2018, 29, 605-616.	3.3	4
28	Ab Initio Investigation of the Microspecies and Energy in Hydrated Strontium Ion Clusters. Molecular Physics, 2018, 116, 273-282.	1.7	6
29	Ion association in lithium metaborate solution: a Raman and ab initio insight. Physics and Chemistry of Liquids, 2017, 55, 186-195.	1.2	6
30	B(OH)₄^{â^'} 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
31	Molecular interactions in aqueous solutions of polyborates at different acidity based on the Raman spectroscopy data at 25Â°C. Russian Journal of Physical Chemistry A, 2017, 91, 1925-1931.	0.6	9
32	Microhydration of BH₄^{â€“}: Dihydrogen Bonds, Structure, Stability, and Raman Spectra. Journal of Physical Chemistry A, 2017, 121, 9146-9155.	2.5	13
33	Ab Initio Investigation of the Micro-species and Raman Spectra in Ca(NO3)2 Solution. Journal of Cluster Science, 2017, 28, 2293-2307.	3.3	2
34	The investigation of structure and IR spectra for hydrated potassium ion clusters K+(H2O)n=1â€“16 by density functional theory*. European Physical Journal D, 2016, 70, 1.	1.3	9
35	Hydrogen generation mechanism of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msup><mml:mrow><mml:msub><mml:mrow><mml:mtext>BH</mml:mtext></mml:mrow></mml:msub></mml:mrow></mml:msup></mml:mrow><mml:mrow><mml:mo>(</mml:mo></mml:mrow> spontaneous hydrolysis: A sight from ab initio calculation. International Journal of Hydrogen Energy, 2016, 41, 22668-22676.	7.1	29
36	Structure of Aqueous Lithium Tetraborate Solution. Journal of Cluster Science, 2016, 27, 1131-1145.	3.3	8

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37	Micro-hydration and acid dissociation mechanism of B(OH)3. Chemical Physics Letters, 2015, 636, 97-102.	2.6	6
38	Density, Electrical Conductivity, pH, and Polyborate Distribution of LiB(OH)₄, Li₂B₄O₅(OH)₄, and LiB₅O₆(OH)₄ Solutions. Journal of Chemical & Engineering Data, 2014, 59, 4039-4048.	1.9	38
39	Volumetric and Transport Properties of Aqueous NaB(OH)4 Solutions. Chinese Journal of Chemical Engineering, 2013, 21, 1048-1056.	3.5	23
40	Solution Structure of Energy Stored System I: Aqua-B(OH)4â€“: A DFT, Carâ€“Parrinello Molecular Dynamics, and Raman Study. Journal of Physical Chemistry B, 2013, 117, 11709-11718.	2.6	18
41	Structure of Aqueous Potassium Tetraborate Solutions. Acta Chimica Sinica, 2012, 70, 445.	1.4	5
42	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