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	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
2	Experimental and theoretical investigations of Cs+ adsorption on crown ethers modified magnetic adsorbent. Journal of Hazardous Materials, 2019, 371, 712-720.	12.4	66
3	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
4	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
5	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:mrow><mml:mn> spontaneous hydrolysis: A sight from ab initio calculation. International Journal of Hydrogen Energy, 2016, 41, 22668-22676.	7.1	29
6	Volumetric and Transport Properties of Aqueous NaB(OH)4 Solutions. Chinese Journal of Chemical Engineering, 2013, 21, 1048-1056.	3.5	23
7	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
8	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
9	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
10	Microhydration of BH₄^{â€“}: Dihydrogen Bonds, Structure, Stability, and Raman Spectra. Journal of Physical Chemistry A, 2017, 121, 9146-9155.	2.5	13
11	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
12	Dihydrogen Bonds in Aqueous NaBD4 Solution by Neutron and X-ray Diffraction. Journal of Physical Chemistry Letters, 2020, 11, 1622-1628.	4.6	11
13	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
14	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
15	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
16	Structure of Aqueous Lithium Tetraborate Solution. Journal of Cluster Science, 2016, 27, 1131-1145.	3.3	8
17	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
18	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

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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	Micro-hydration and acid dissociation mechanism of B(OH)3. Chemical Physics Letters, 2015, 636, 97-102.	2.6	6
21	Ion association in lithium metaborate solution: a Raman and ab initio insight. Physics and Chemistry of Liquids, 2017, 55, 186-195.	1.2	6
22	Ab Initio Investigation of the Microspecies and Energy in Hydrated Strontium Ion Clusters. Molecular Physics, 2018, 116, 273-282.	1.7	6
23	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
24	Ion hydration and association in aqueous potassium tetrahydroxyborate solutions. Analyst, The, 2020, 145, 2245-2255.	3.5	6
25	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
26	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
27	Structure of Aqueous Potassium Tetraborate Solutions. Acta Chimica Sinica, 2012, 70, 445.	1.4	5
28	Structure analysis of aqueous Mg(NO3)2 solutions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 267, 120478.	3.9	5
29	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
30	Hydrogen bonds in aqueous choline chloride solutions by DFT calculations and X-ray scattering. Journal of Molecular Liquids, 2022, 362, 119742.	4.9	5
31	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
32	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
33	Structure of phase change energy storage material Ca(NO3)2Â·4H2O solution. Journal of Molecular Liquids, 2022, 356, 119010.	4.9	4
34	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
35	Mechanism for hydrolysis of double sixâ€membered ring tetraborate anion. International Journal of Quantum Chemistry, 2020, 120, e26118.	2.0	3
36	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

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37	Phase Equilibrium in Aqueous Systems Containing Magnesium Borate. Russian Journal of Physical Chemistry A, 2019, 93, 1478-1483.	0.6	2
38	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
39	5ï¼Žé«˜é›»åœ§æ°´ç³»é›»æ±ã®ç¢ºç«‹ã‚’ç›®æŒ‡ã—ãŸæ¿ƒåŽšæ°´ç³»é›»è§£æ¶². Denki Kagaku, 2019, 87, 220-226.	0.0	1
40	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
41	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
42	A Study of the Structure of Aqueous Rubidium Tetraborate Solutions. Journal of Solution Chemistry, 2021, 50, 19-30.	1.2	0