

Wolfram W Rudolph

List of Publications by Year in descending order

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72
papers

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citations

172457

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74
docs citations

74
times ranked

2533
citing authors

#	ARTICLE	IF	CITATIONS
1	An ab Initio and Raman Investigation of Magnesium(II) Hydration. Journal of Physical Chemistry A, 1998, 102, 9933-9943.	2.5	147
2	Hydration of Lithium Ion in Aqueous Solutions. The Journal of Physical Chemistry, 1995, 99, 3793-3797.	2.9	141
3	Aluminium(III) hydration in aqueous solution. A Raman spectroscopic investigation and an ab initio molecular orbital study of aluminium(III) water clusters. Physical Chemistry Chemical Physics, 2000, 2, 5030-5040.	2.8	116
4	Vibrational Spectroscopic Studies and Density Functional Theory Calculations of Speciation in the CO ₂ -Water System. Applied Spectroscopy, 2006, 60, 130-144.	2.2	111
5	Speciation studies in aqueous HCO ₃ ⁻ solutions. A combined Raman spectroscopic and thermodynamic study. Dalton Transactions, 2008, , 900-908.	3.3	103
6	Zinc(II) hydration in aqueous solution. A Raman spectroscopic investigation and an ab-initio molecular orbital study. Physical Chemistry Chemical Physics, 1999, 1, 4583-4593.	2.8	95
7	Raman- and infrared-spectroscopic investigations of dilute aqueous phosphoric acid solutions. Dalton Transactions, 2010, 39, 9642.	3.3	94
8	Raman and Infrared Spectroscopic Investigations on Aqueous Alkali Metal Phosphate Solutions and Density Functional Theory Calculations of Phosphate-Water Clusters. Applied Spectroscopy, 2007, 61, 1312-1327.	2.2	93
9	An ab Initio and Raman Investigation of Sulfate Ion Hydration. Journal of Physical Chemistry A, 2001, 105, 905-912.	2.5	81
10	Protein-Primed and De Novo Initiation of RNA Synthesis by Norovirus 3D pol. Journal of Virology, 2006, 80, 7060-7069.	3.4	81
11	Title is missing!. Journal of Solution Chemistry, 1999, 28, 621-630.	1.2	73
12	Hydration of the calcium(ii) ion in an aqueous solution of common anions (ClO ₄ ⁻ , Cl ⁻ , Br ⁻ , and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.3	60
13	An ab Initio Investigation of Lithium Ion Hydration. The Journal of Physical Chemistry, 1996, 100, 601-605.	2.9	58
14	An ab Initio, Infrared, and Raman Investigation of Phosphate Ion Hydration. Journal of Physical Chemistry A, 2003, 107, 8746-8755.	2.5	57
15	Indium(iii) hydration in aqueous solutions of perchlorate, nitrate and sulfate. Raman and infrared spectroscopic studies and ab-initio molecular orbital calculations of indium(iii)-water clusters. Physical Chemistry Chemical Physics, 2004, 6, 5145-5155.	2.8	56
16	Raman Spectroscopic Measurements of Scandium(III) Hydration in Aqueous Perchlorate Solution and ab Initio Molecular Orbital Studies of Scandium(III) Water Clusters: Does Sc(III) Occur as a Hexaaqua Complex?. Journal of Physical Chemistry A, 2000, 104, 1627-1639.	2.5	54
17	Raman- and Infrared Spectroscopic Investigation of Aqueous ZnSO ₄ Solutions from 8Å°C to 165Å°C: Inner- and Outer-Sphere Complexes. Zeitschrift Fur Physikalische Chemie, 1999, 209, 181-207.	2.8	50
18	Feline Foamy Virus Genome and Replication Strategy. Journal of Virology, 2003, 77, 11324-11331.	3.4	48

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19	Hydration of beryllium(ii) in aqueous solutions of common inorganic salts. A combined vibrational spectroscopic and ab initio molecular orbital study. Dalton Transactions, 2009, , 6513.	3.3	43
20	Hydration and ion pair formation in common aqueous La(La^{3+}) salt solutions – a Raman scattering and DFT study. Dalton Transactions, 2015, 44, 295-305.	3.3	43
21	Raman Spectroscopic Measurements and ab Initio Molecular Orbital Studies of Cadmium(II) Hydration in Aqueous Solution. Journal of Physical Chemistry B, 1998, 102, 3564-3573.	2.6	42
22	Comparison of VITEK2, MALDI-TOF MS, and 16S rDNA sequencing for identification of Myroides odoratus and Myroides odoratimimus. Diagnostic Microbiology and Infectious Disease, 2014, 79, 155-159.	1.8	42
23	Title is missing!. Journal of Solution Chemistry, 2001, 30, 527-548.	1.2	39
24	Characterization of norovirus 3Dpol RNA-dependent RNA polymerase activity and initiation of RNA synthesis. Journal of General Virology, 2006, 87, 2621-2630.	2.9	39
25	Raman-Spectroscopic Measurements of the First Dissociation Constant of Aqueous Phosphoric Acid Solution from 5 to 301 Å°C. Journal of Solution Chemistry, 2012, 41, 630-645.	1.2	36
26	Gallium(iii) hydration in aqueous solution of perchlorate, nitrate and sulfate. Raman and 71-Ga NMR spectroscopic studies and ab initio molecular orbital calculations of gallium(iii) water clusters. Electronic supplementary information (ESI) available: Unscaled HF/6-31+G* frequencies, intensities and force constants of the hexaaqua-Ga(iii) ion, octadeca-aqua gallium(iii) and octadeca-aqua gallium(iii) cluster. See http://www.rsc.org/suppdata/cp/b2/b202567c/ . Physical Chemistry Chemical Physics, 2002, 4, 4319-4327.	2.8	33
27	Ion association and hydration in 3:2 electrolyte solutions by dielectric spectroscopy: Aluminum sulfate. Geochimica Et Cosmochimica Acta, 2007, 71, 5287-5300.	3.9	32
28	Hydration and speciation studies of Mn ²⁺ in aqueous solution with simple monovalent anions (ClO ₄ ⁻ ,) Tj ETQq0 0 0 rgBT /Overlock 10	3.3	31
29	Study of gallium(III) nitrate hydrate and aqueous solutions: Raman spectroscopy and ab initio molecular orbital calculations of gallium(III) water clusters. Journal of Raman Spectroscopy, 2002, 33, 177-190.	2.5	29
30	An ab initio investigation of zinc chloro complexes. Physical Chemistry Chemical Physics, 2006, 8, 5428.	2.8	29
31	Raman spectroscopic characterization of light rare earth ions: La ³⁺ , Ce ³⁺ , Pr ³⁺ , Nd ³⁺ and Sm ³⁺ – hydration and ion pair formation. Dalton Transactions, 2017, 46, 4235-4244.	3.3	29
32	Title is missing!. Journal of Solution Chemistry, 1999, 28, 1045-1070.	1.2	28
33	Vibrational spectroscopic studies and DFT calculations on NaCH ₃ CO ₂ (aq) and CH ₃ COOH(aq). Dalton Transactions, 2014, 43, 3174-3185.	3.3	27
34	Hydration and ion pair formation in aqueous Y ³⁺ salt solutions. Dalton Transactions, 2015, 44, 18492-18505.	3.3	27
35	Synthetic alunites of the potassium-oxonium solid solution series and some other members of the group: synthesis, thermal and X-ray characterization. European Journal of Mineralogy, 2003, 15, 913-924.	1.3	25
36	On the Hydration of the Rare Earth Ions in Aqueous Solution. Journal of Solution Chemistry, 2020, 49, 316-331.	1.2	25

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37	Hydration and water-ligand replacement in aqueous cadmium(II) sulfate solution A Raman and infrared study. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 489-499.	1.7	23
38	N-Terminal Gag Domain Required for Foamy Virus Particle Assembly and Export. <i>Journal of Virology</i> , 2005, 79, 12464-12476.	3.4	23
39	Modeling Hemolytic-Uremic Syndrome: In-Depth Characterization of Distinct Murine Models Reflecting Different Features of Human Disease. <i>Frontiers in Immunology</i> , 2018, 9, 1459.	4.8	22
40	Whole-genome sequencing of a large collection of <i>Myroides odoratimimus</i> and <i>Myroides odoratus</i> isolates and antimicrobial susceptibility studies. <i>Emerging Microbes and Infections</i> , 2018, 7, 1-8.	6.5	21
41	Raman spectroscopic studies and DFT calculations on NaCH_3CO_2 and NaCD_3CO_2 solutions in water and heavy water. <i>RSC Advances</i> , 2015, 5, 21897-21908.	3.6	20
42	Characterisation of Australian MRSA Strains ST75- and ST883-MRSA-IV and Analysis of Their Accessory Gene Regulator Locus. <i>PLoS ONE</i> , 2010, 5, e14025.	2.5	20
43	Differential cleavage of the norovirus polyprotein precursor by two active forms of the viral protease. <i>Journal of General Virology</i> , 2007, 88, 2013-2018.	2.9	19
44	An ab initio investigation of bismuth hydration. <i>Canadian Journal of Chemistry</i> , 2007, 85, 945-950.	1.1	19
45	Identification of Rare Bacterial Pathogens by 16S rRNA Gene Sequencing and MALDI-TOF MS. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	19
46	Title is missing!. <i>Journal of Solution Chemistry</i> , 2000, 29, 955-986.	1.2	18
47	Determination of the relative amounts of Gag and Pol proteins in foamy virus particles. <i>Retrovirology</i> , 2005, 2, 44.	2.0	16
48	First report on the isolation of <i>Aureimonas altamirensis</i> from a patient with peritonitis. <i>International Journal of Infectious Diseases</i> , 2014, 29, 71-73.	3.3	16
49	AZT-resistant foamy virus. <i>Virology</i> , 2008, 370, 151-157.	2.4	12
50	Raman and Infrared Spectroscopic Investigation of Speciation in $\text{BeSO}_4(\text{aq})$. <i>Journal of Solution Chemistry</i> , 2010, 39, 1039-1059.	1.2	12
51	On the Hydration of Heavy Rare Earth Ions: Ho^{3+} , Er^{3+} , Tm^{3+} , Yb^{3+} and Lu^{3+} —A Raman Study. <i>Molecules</i> , 2019, 24, 1953.	3.8	12
52	A Raman spectroscopic study of hydration and water-ligand replacement reaction in aqueous cadmium(II)-sulfate solution: Inner-sphere and outer-sphere complexes. <i>Zeitschrift Fur Elektrochemie Und Elektrochemie</i> , 1998, 102, 183-196.	0.9	11
53	Hydration and Ion Pair Formation in Aqueous Lu^{3+} Solution. <i>Molecules</i> , 2018, 23, 3237.	3.8	10
54	Comparison of VITEK 2, MALDI-TOF MS, 16S rRNA gene sequencing, and whole-genome sequencing for identification of <i>Roseomonas mucosa</i> . <i>Microbial Pathogenesis</i> , 2019, 134, 103576.	2.9	9

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55	Hydration and Ion-Pair Formation of $\text{NaNO}_3(\text{aq})$: A Vibrational Spectroscopic and Density Functional Theory Study. <i>Applied Spectroscopy</i> , 2021, 75, 395-411.	2.2	9
56	Vibrational spectroscopic studies and DFT calculations on tribromoacetate and tribromoacetic acid in aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 1483-1492.	3.9	8
57	A Raman spectroscopic investigation of speciation in $\text{La}_2(\text{SO}_4)_3(\text{aq})$. <i>RSC Advances</i> , 2015, 5, 84999-85008.	3.6	8
58	Raman Spectroscopic Investigation of Speciation in $\text{MnSO}_4(\text{aq})$. <i>Journal of Solution Chemistry</i> , 2014, 43, 465-485.	1.2	7
59	Replication-Competent Hybrids between Murine Leukemia Virus and Foamy Virus. <i>Journal of Virology</i> , 2003, 77, 7677-7681.	3.4	6
60	An Ab Initio Investigation of Zinc Bromo Complexes. <i>Journal of Solution Chemistry</i> , 2011, 40, 1932-1954.	1.2	6
61	Detection of <i>Robinsoniella peoriensis</i> in multiple bone samples of a trauma patient. <i>Anaerobe</i> , 2019, 59, 14-18.	2.1	6
62	Hydration of Cadmium(II) in Aqueous Perchlorate Solution: A Raman and ab-initio Approach. <i>Zeitschrift Fur Physikalische Chemie</i> , 1999, 209, 243-258.	2.8	5
63	Design of a covalently linked human interleukin-10 fusion protein and its secretory expression in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 10479-10493.	3.6	5
64	<i>Actinobacillus equuli</i> ssp. <i>haemolyticus</i> in a semi-occlusively treated horse bite wound in a 2-year-old girl. <i>GMS German Medical Science</i> , 2013, 11, Doc14.	2.7	5
65	Zum Schwingungsspektrum der Phosphorsäure VI. <i>Zeitschrift Fur Physikalische Chemie</i> , 1992, 176, 185-198.	2.8	4
66	Studies on synthetic galloalunites $\text{AGa}_3(\text{SO}_4)_2(\text{OH})_6$: Synthesis, thermal analysis, and X-ray characterization. <i>Thermochimica Acta</i> , 2011, 521, 112-120.	2.7	4
67	First report on sepsis caused by <i>Porphyromonas pagonae</i> . <i>Anaerobe</i> , 2017, 44, 96-98.	2.1	4
68	Raman spectroscopic studies and DFT calculations on tribromoacetic acid and tribromoacetic acid-d. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 90, 165-172.	3.9	3
69	A Raman Spectroscopic Study of Aqueous $\text{La}(\text{CH}_3\text{CO}_2)_3$ Solutions and $\text{La}(\text{CH}_3\text{CO}_2)_3 \cdot 1.5 \text{H}_2\text{O}(\text{cr})$. <i>Journal of Solution Chemistry</i> , 2017, 46, 190-214.	1.2	2
70	Indium(III) Hydration in Aqueous Solutions of Perchlorate, Nitrate and Sulfate. Raman and Infrared Spectroscopic Studies and ab-initio Molecular Orbital Calculations of Indium(III)?Water Clusters.. <i>ChemInform</i> , 2005, 36, no.	0.0	1
71	Raman Spectroscopic Studies on Aqueous Sodium Formate Solutions and DFT Calculations. <i>Journal of Solution Chemistry</i> , 0, , .	1.2	1
72	An ab initio, Infrared, and Raman Investigation of Phosphate Ion Hydration.. <i>ChemInform</i> , 2004, 35, no.	0.0	0