

Rafael R Pappalardo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8976946/publications.pdf>

Version: 2024-02-01

30
papers

956
citations

471509

17
h-index

454955

30
g-index

30
all docs

30
docs citations

30
times ranked

740
citing authors

#	ARTICLE	IF	CITATIONS
1	First-Principles Ion-Water Interaction Potentials for Highly Charged Monatomic Cations. Computer Simulations of Al ³⁺ , Mg ²⁺ , and Be ²⁺ in Water. <i>Journal of the American Chemical Society</i> , 1999, 121, 3175-3184.	13.7	123
2	Effects of the solvent reaction field on the geometrical structures of hexahydrate metallic cations. <i>The Journal of Physical Chemistry</i> , 1991, 95, 8928-8932.	2.9	84
3	Recovering the concept of the hydrated ion for modeling ionic solutions: a Monte Carlo study of zinc(2+) in water. <i>The Journal of Physical Chemistry</i> , 1993, 97, 4500-4504.	2.9	72
4	Solving the Hydration Structure of the Heaviest Actinide Aqua Ion Known: The Californium(III) Case. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3811-3815.	13.8	64
5	Understanding the Hydration Structure of Square-Planar Aquaions: The [Pd(H ₂ O) ₄] ²⁺ Case. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15851-15855.	2.6	56
6	Application of the Hydrated Ion Concept for Modeling Aqueous Solutions Containing Highly Charged Ions: A Monte Carlo Simulation of Cr ³⁺ in Water Using an ab Initio Intermolecular Potential. <i>The Journal of Physical Chemistry</i> , 1996, 100, 11748-11754.	2.9	53
7	A molecular dynamics study of the Cr ³⁺ hydration based on a fully flexible hydrated ion model. <i>Journal of Chemical Physics</i> , 1998, 109, 1445-1455.	3.0	49
8	The hydration structure of the heavy-alkalines Rb ⁺ and Cs ⁺ through molecular dynamics and X-ray absorption spectroscopy: surface clusters and eccentricity. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28993-29004.	2.8	43
9	Analysis of the Opposite Solvent Effects Caused by Different Solute Cavities on the Metal-Water Distance of Monoatomic Cation Hydrates. <i>Journal of Physical Chemistry B</i> , 2002, 106, 1118-1123.	2.6	42
10	Dynamics of a Highly Charged Ion in Aqueous Solutions: MD Simulations of Dilute CrCl ₃ Aqueous Solutions Using Interaction Potentials Based on the Hydrated Ion Concept. <i>Journal of Physical Chemistry B</i> , 1998, 102, 3272-3282.	2.6	41
11	Combined Experimental and Theoretical Approach to the Study of Structure and Dynamics of the Most Inert Aqua Ion [Ir(H ₂ O) ₆] ³⁺ in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8223-8233.	2.6	38
12	Hydration Structure and Dynamic Properties of the Square Planar Pt(II) Aquaion Compared to the Pd(II) Case. <i>Theoretical Chemistry Accounts</i> , 2006, 115, 196-203.	1.4	34
13	Aqueous Pd ^{II} and Pt ^{II} : Anionic Hydration Revealed by Car Parrinello Simulations. <i>ChemPhysChem</i> , 2008, 9, 237-240.	2.1	32
14	Hydration of Two Cisplatin Aqua-Derivatives Studied by Quantum Mechanics and Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 1735-1744.	5.3	28
15	Hydration of Cisplatin Studied by an Effective Ab Initio Pair Potential Including Solute-Solvent Polarization. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 4562-4573.	5.3	27
16	Identifying Coordination Geometries of Metal Aquaions in Water: Application to the Case of Lanthanoid and Actinoid Hydrates. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4275-4280.	4.6	25
17	Collecting high-order interactions in an effective pairwise intermolecular potential using the hydrated ion concept: The hydration of Cf ³⁺ . <i>Journal of Chemical Physics</i> , 2014, 140, 214104.	3.0	18
18	An Ab Initio Molecular Dynamics Study on the Hydrolysis of the Po(IV) Aquaion in Water. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12866-12874.	2.6	17

#	ARTICLE	IF	CITATIONS
19	A hydrated ion model of [UO ₂] ²⁺ in water: Structure, dynamics, and spectroscopy from classical molecular dynamics. <i>Journal of Chemical Physics</i> , 2016, 145, 224502.	3.0	17
20	General Quantum-Mechanical Study on the Hydrolysis Equilibria for a Tetravalent Aquaion: The Extreme Case of the Po(IV) in Water. <i>Journal of Physical Chemistry B</i> , 2009, 113, 487-496.	2.6	14
21	Hydration Structure of the Elusive Ac(III) Aqua Ion: Interpretation of X-ray Absorption Spectroscopy (XAS) Spectra on the Basis of Molecular Dynamics (MD) Simulations. <i>Inorganic Chemistry</i> , 2019, 58, 2777-2783.	4.0	14
22	A general study of actinyl hydration by molecular dynamics simulations using <i>ab initio</i> force fields. <i>Journal of Chemical Physics</i> , 2019, 150, 104504.	3.0	13
23	Effect of Basicity on the Hydrolysis of the Bi(III) Aqua Ion in Solution: An <i>Ab Initio</i> Molecular Dynamics Study. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1905-1915.	2.5	12
24	Extracting the Americyl Hydration from an Americium Cationic Mixture in Solution: A Combined X-ray Absorption Spectroscopy and Molecular Dynamics Study. <i>Inorganic Chemistry</i> , 2018, 57, 8089-8097.	4.0	9
25	Hydration of Heavy Alkaline-Earth Cations Studied by Molecular Dynamics Simulations and X-ray Absorption Spectroscopy. <i>Inorganic Chemistry</i> , 2021, 60, 13578-13587.	4.0	9
26	Quantum-Mechanical Study on the Aquaions and Hydrolyzed Species of Po(IV), Te(IV), and Bi(III) in Water. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14903-14914.	2.6	7
27	Revisiting the cobalt(II) hydration from molecular dynamics and X-ray absorption spectroscopy. <i>Molecular Physics</i> , 2019, 117, 3320-3328.	1.7	5
28	A Coupled EXAFS-Molecular Dynamics Study on PuO ₂ ⁺ and NpO ₂ ⁺ Hydration: The Importance of Electron Correlation in Force-Field Building. <i>Inorganic Chemistry</i> , 2022, 61, 8703-8714.	4.0	5
29	Development of a polarizable and flexible model of the hydrated ion potential to study the intriguing case of Sc(III) hydration. <i>Theoretical Chemistry Accounts</i> , 2017, 136, 1.	1.4	3
30	Combining EXAFS and Computer Simulations to Refine the Structural Description of Actinyls in Water. <i>Molecules</i> , 2020, 25, 5250.	3.8	2