VinÃ-cius Vaz da Cruz

List of Publications by Year
in descending order

24 papers	334 citations	932766 10 h-index	839053 18 g-index
25 all docs	25 docs citations	25 times ranked	489 citing authors

#	Article	IF	Citations
1	Fundamental electronic changes upon intersystem crossing in large aromatic photosensitizers: free base 5,10,15,20-tetrakis(4-carboxylatophenyl)porphyrin. Physical Chemistry Chemical Physics, 2022, 24, 7505-7511.	1.3	6
2	Targeting Individual Tautomers in Equilibrium by Resonant Inelastic X-ray Scattering. Journal of Physical Chemistry Letters, 2022, 13, 2459-2466.	2.1	4
3	Photo-induced ligand substitution of Cr(CO)₆ in 1-pentanol probed by time resolved X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2022, 24, 17979-17985.	1.3	4
4	R-Group stabilization in methylated formamides observed by resonant inelastic X-ray scattering. Chemical Communications, 2022, 58, 8834-8837.	2.2	2
5	From the Free Ligand to the Transition Metal Complex: FeEDTA^{â€“}Formation Seen at Ligand K-Edges. Inorganic Chemistry, 2022, 61, 10321-10328.	1.9	5
6	Cuts through the manifold of molecular H ₂ O potential energy surfaces in liquid water at ambient conditions. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	2
7	How Hydrogen Bonding Amplifies Isomeric Differences in Pyridones toward Strong Changes in Acidity and Tautomerism. Journal of Physical Chemistry B, 2021, 125, 2372-2379.	1.2	7
8	Breaking the Symmetry of Pyrimidine: Solvent Effects and Core-Excited State Dynamics. Journal of Physical Chemistry Letters, 2021, 12, 8637-8643.	2.1	8
9	TD-DFT simulations of K-edge resonant inelastic X-ray scattering within the restricted subspace approximation. Physical Chemistry Chemical Physics, 2021, 23, 1835-1848.	1.3	20
10	The porphyrin center as a regulator for metalâ€“ligand covalency and Ï€ hybridization in the entire molecule. Physical Chemistry Chemical Physics, 2021, 23, 24765-24772.	1.3	11
11	Probing Soluteâ€“Solvent Interactions of Transition Metal Complexes Using L-Edge Absorption Spectroscopy. Journal of Physical Chemistry B, 2020, 124, 5636-5645.	1.2	8
12	Titelbild: Kovalenzgetriebene Erhaltung lokaler Ladungsdichten in einem durch Metallâ€Ligandâ€Ladungstransfer angeregten Eisenphotosensibilisator (Angew. Chem. 31/2019). Angewandte Chemie, 2019, 131, 10485-10485.	1.6	0
13	Nuclear dynamics in resonant inelastic X-ray scattering and X-ray absorption of methanol. Journal of Chemical Physics, 2019, 150, 234301.	1.2	26
14	Covalencyâ€Driven Preservation of Local Charge Densities in a Metalâ€toâ€Ligand Chargeâ€Transfer Excited Iron Photosensitizer. Angewandte Chemie - International Edition, 2019, 58, 10742-10746.	7.2	17
15	Kovalenzgetriebene Erhaltung lokaler Ladungsdichten in einem durch Metallâ€Ligandâ€Ladungstransfer angeregten Eisenphotosensibilisator. Angewandte Chemie, 2019, 131, 10853-10857.	1.6	0
16	Probing hydrogen bond strength in liquid water by resonant inelastic X-ray scattering. Nature Communications, 2019, 10, 1013.	5.8	53
17	Recoil-induced ultrafast molecular rotation probed by dynamical rotational Doppler effect. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4877-4882.	3.3	16
18	Compatibility of quantitative X-ray spectroscopy with continuous distribution models of water at ambient conditions. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4058-4063.	3.3	54

#	Article	IF	Citations
19	Reply to Pettersson et al.: Why X-ray spectral features are compatible to continuous distribution models in ambient water. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17158-17159.	3.3	9
20	Recoil-induced dissociation in hard-x-ray photoionization. Physical Review A, 2019, 100, .	1.0	8
21	Ultrafast dissociation features in RIXS spectra of the water molecule. Physical Chemistry Chemical Physics, 2018, 20, 14384-14397.	1.3	24
22	One-dimensional cuts through multidimensional potential-energy surfaces by tunable x rays. Physical Review A, 2018, 97, .	1.0	13
23	Anomalous polarization dependence in vibrationally resolved resonant inelastic x-ray scattering of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:mrow></mml:math>. Physical Review A, 2018, 98, .	1.0	5
24	A study of the water molecule using frequency control over nuclear dynamics in resonant X-ray scattering. Physical Chemistry Chemical Physics, 2017, 19, 19573-19589.	1.3	32