

Alessio Petrone

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8250216/publications.pdf>

Version: 2024-02-01

37
papers

1,493
citations

279798

23
h-index

361022

35
g-index

37
all docs

37
docs citations

37
times ranked

2200
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed Cation FA _x PEA _{1-x} with Enhanced Phase and Ambient Stability toward High-Performance Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1601307.	19.5	298
2	Single-Crystal and Electronic Structure of a 1.3 nm Indium Phosphide Nanocluster. <i>Journal of the American Chemical Society</i> , 2016, 138, 1510-1513.	13.7	164
3	Cation Exchange Induced Transformation of InP Magic-Sized Clusters. <i>Chemistry of Materials</i> , 2017, 29, 7984-7992.	6.7	67
4	The Chronus Quantum software package. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2020, 10, e1436.	14.6	66
5	Investigating the role of amine in InP nanocrystal synthesis: destabilizing cluster intermediates by Z-type ligand displacement. <i>Chemical Communications</i> , 2017, 53, 161-164.	4.1	55
6	An efficient implementation of two-component relativistic density functional theory with torque-free auxiliary variables. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	54
7	From charge-transfer to a charge-separated state: a perspective from the real-time TDDFT excitonic dynamics. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24457-24465.	2.8	51
8	Absorption and Emission Spectral Shapes of a Prototype Dye in Water by Combining Classical/Dynamical and Quantum/Static Approaches. <i>Journal of Physical Chemistry A</i> , 2015, 119, 5426-5438.	2.5	50
9	Watching Polaron Pair Formation from First-Principles Electron Nuclear Dynamics. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7255-7261.	2.5	47
10	The mechanism of a green fluorescent protein proton shuttle unveiled in the time-resolved frequency domain by excited state <i>ab initio</i> dynamics. <i>Chemical Science</i> , 2018, 9, 1126-1135.	7.4	43
11	On the optical absorption of the anionic GFP chromophore in vacuum, solution, and protein. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20536.	2.8	41
12	Understanding THz and IR Signals beneath Time-Resolved Fluorescence from Excited-State <i>Ab Initio</i> Dynamics. <i>Journal of the American Chemical Society</i> , 2014, 136, 14866-14874.	13.7	41
13	Direct <i>ab Initio</i> (Meta-)Surface-Hopping Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 935-945.	5.3	40
14	High-pressure, high-temperature molecular doping of nanodiamond. <i>Science Advances</i> , 2019, 5, eaau6073.	10.3	40
15	<i>Ab Initio</i> Transient Vibrational Spectral Analysis. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4501-4508.	4.6	37
16	Quantum confinement effects on optical transitions in nanodiamonds containing nitrogen vacancies. <i>Physical Review B</i> , 2016, 94, .	3.2	36
17	On the Driving Force of the Excited-State Proton Shuttle in the Green Fluorescent Protein: A Time-Dependent Density Functional Theory (TD-DFT) Study of the Intrinsic Reaction Path. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 4925-4933.	5.3	33
18	Mapping Vibronic Couplings in a Solar Cell Dye with Polarization-Selective Two-Dimensional Electronic-Vibrational Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6289-6295.	4.6	31

#	ARTICLE	IF	CITATIONS
19	Vibrational analysis of x-ray absorption fine structure thermal factors by <i>ab initio</i> molecular dynamics: The Zn(II) ion in aqueous solution as a case study. <i>Journal of Chemical Physics</i> , 2011, 134, 074504.	3.0	29
20	<i>Ab initio</i> molecular dynamics and hybrid explicit-implicit solvation model for aqueous and nonaqueous solvents: <i>scp</i> -GFP <i>scp</i> chromophore in water and methanol solution as case study. <i>Journal of Computational Chemistry</i> , 2020, 41, 2228-2239.	3.3	27
21	Multiresolution continuous wavelet transform for studying coupled solute-solvent vibrations <i>via ab initio</i> molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 22645-22661.	2.8	26
22	Effect of Surface Passivation on Nanodiamond Crystallinity. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8573-8580.	3.1	24
23	Carboxylate Anchors Act as Exciton Reporters in 1.3 nm Indium Phosphide Nanoclusters. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1833-1839.	4.6	23
24	A Not Obvious Correlation Between the Structure of Green Fluorescent Protein Chromophore Pocket and Hydrogen Bond Dynamics: A Choreography From <i>ab initio</i> Molecular Dynamics. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 569990.	3.5	23
25	Interference of Polydatin/Resveratrol in the ACE2:Spike Recognition during COVID-19 Infection. A Focus on Their Potential Mechanism of Action through Computational and Biochemical Assays. <i>Biomolecules</i> , 2021, 11, 1048.	4.0	22
26	Does Thermal Breathing Affect Collision Cross Sections of Gas-Phase Peptide Ions? An <i>Ab Initio</i> Molecular Dynamics Study. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2765-2771.	4.6	16
27	Classical or Quantum? A Computational Study of Small Ion Diffusion in VI Semiconductor Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19434-19441.	3.1	16
28	<i>Ab Initio</i> Excited-State Transient Raman Analysis. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3958-3965.	2.5	16
29	Electronic structures and spectroscopic signatures of silicon-vacancy containing nanodiamonds. <i>Physical Review B</i> , 2018, 98, .	3.2	16
30	Efficient Implementation of Variation after Projection Generalized Hartree-Fock. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 588-596.	5.3	14
31	Exploring the Franck-Condon region of a photoexcited charge transfer complex in solution to interpret femtosecond stimulated Raman spectroscopy: excited state electronic structure methods to unveil non-radiative pathways. <i>Chemical Science</i> , 2021, 12, 8058-8072.	7.4	14
32	Direct observation of the solvent organization and nuclear vibrations of $[\text{Ru}(\text{dcbpy})_2(\text{NCS})_4]^{2+}$, [$\text{dcbpy} = (4,4\text{-dicarboxy-2,2\text{-bipyridine})$], <i>via ab initio</i> molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22885-22896.	2.8	12
33	Electronic spectroscopy of a solvatochromic dye in water: comparison of static cluster/implicit and dynamical/explicit solvent models on structures and energies. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	1.4	7
34	Ultrafast photo-induced processes in complex environments: The role of accuracy in excited-state energy potentials and initial conditions. <i>Chemical Physics Reviews</i> , 2022, 3, .	5.7	7
35	Spectroscopic Signatures of the B and H_{4} Polyatomic Nitrogen Aggregates in Nanodiamond. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18275-18283.	3.1	5
36	Switchable light vs acid-induced transformations of complex framework compounds at room temperature. <i>Green Chemistry</i> , 0, , .	9.0	2

#	ARTICLE	IF	CITATIONS
37	Cover Image, Volume 41, Issue 26. Journal of Computational Chemistry, 2020, 41, C2.	3.3	0