

Marco Pagliai

List of Publications by Year in descending order

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91
papers

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citations

236925

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91
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91
docs citations

91
times ranked

2957
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#	ARTICLE	IF	CITATIONS
1	Hydrogen bond dynamics in liquid methanol. <i>Journal of Chemical Physics</i> , 2003, 119, 6655-6662.	3.0	171
2	Identification of potential binders of the main protease 3CLpro of the COVID-19 via structure-based ligand design and molecular modeling. <i>Chemical Physics Letters</i> , 2020, 750, 137489.	2.6	133
3	Assessment of GAFF2 and OPLS-AA General Force Fields in Combination with the Water Models TIP3P, SPCE, and OPC3 for the Solvation Free Energy of Druglike Organic Molecules. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1983-1995.	5.3	131
4	The Vibrational Spectrum of Fullerene C60. <i>Journal of Physical Chemistry A</i> , 2001, 105, 11192-11196.	2.5	126
5	SERS, XPS, and DFT Study of Adenine Adsorption on Silver and Gold Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 242-245.	4.6	95
6	The Infrared and Raman Spectra of Fullerene C70. DFT Calculations and Correlation with C60. <i>Journal of Physical Chemistry A</i> , 2002, 106, 1815-1823.	2.5	91
7	SERS and Computational Studies on MicroRNA Chains Adsorbed on Silver Surfaces. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13730-13735.	3.1	67
8	Nitromethane Decomposition under High Static Pressure. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9420-9428.	2.6	59
9	Immersive virtual reality in computational chemistry: Applications to the analysis of QM and MM data. <i>International Journal of Quantum Chemistry</i> , 2016, 116, 1731-1746.	2.0	52
10	Structure and Dynamics of Low-Density and High-Density Liquid Water at High Pressure. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 235-240.	4.6	50
11	A density functional study of the SERS spectra of pyridine adsorbed on silver clusters. <i>Theoretical Chemistry Accounts</i> , 2007, 117, 451-458.	1.4	49
12	Vibrational Frequencies of Fullerenes C ₆₀ and C ₇₀ under Pressure Studied with a Quantum Chemical Model Including Spatial Confinement Effects. <i>Journal of Physical Chemistry A</i> , 2014, 118, 5098-5111.	2.5	45
13	Anharmonic infrared and Raman spectra in Carâ€Parrinello molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2008, 128, 224514.	3.0	44
14	Upgrading and Validation of the AMBER Force Field for Histidine and Cysteine Zinc(II)-Binding Residues in Sites with Four Protein Ligands. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 3803-3816.	5.4	42
15	Polarization response of water and methanol investigated by a polarizable force field and density functional theory calculations: Implications for charge transfer. <i>Journal of Chemical Physics</i> , 2005, 122, 074504.	3.0	40
16	A combined Raman, DFT and MD study of the solvation dynamics and the adsorption process of pyridine in silver hydrosols. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 171-178.	2.8	38
17	Electronic absorption spectra of pyridine and nicotine in aqueous solution with a combined molecular dynamics and polarizable QM/MM approach. <i>Journal of Computational Chemistry</i> , 2017, 38, 319-335.	3.3	38
18	Hydrogen Bond Dynamics of Methyl Acetate in Methanol. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2951-2955.	4.6	36

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19	Raman and computational study of solvation and chemisorption of thiazole in silver hydrosol. <i>Chemical Communications</i> , 2011, 47, 3138.	4.1	36
20	Accurate prediction of bulk properties in hydrogen bonded liquids: amides as case studies. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25342-25354.	2.8	36
21	Characterization of the non-covalent interaction between the PF-07321332 inhibitor and the SARS-CoV-2 main protease. <i>Journal of Molecular Graphics and Modelling</i> , 2022, 110, 108042.	2.4	34
22	Chemical Equilibrium Probed by Two-Dimensional IR Spectroscopy: Hydrogen Bond Dynamics of Methyl Acetate in Water. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12783-12790.	2.5	31
23	Solvation Dynamics of Li ⁺ and Cl ⁻ Ions in Liquid Methanol. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7475-7481.	2.6	30
24	Structural and Electronic Competing Mechanisms in the Formation of Amorphous Carbon Nitride by Compressing <i>s</i> -Triazine. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28560-28569.	3.1	29
25	Virtual Double-System Single-Box: A Nonequilibrium Alchemical Technique for Absolute Binding Free Energy Calculations: Application to Ligands of the SARS-CoV-2 Main Protease. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 7160-7172.	5.3	27
26	Upgraded AMBER Force Field for Zinc-Binding Residues and Ligands for Predicting Structural Properties and Binding Affinities in Zinc-Proteins. <i>ACS Omega</i> , 2020, 5, 15301-15310.	3.5	27
27	Mycotoxins aptasensing: From molecular docking to electrochemical detection of deoxynivalenol. <i>Bioelectrochemistry</i> , 2021, 138, 107691.	4.6	27
28	Carâ€Parrinello molecular dynamics on the SN2 reaction Cl ⁻ + CH3Br in water. <i>Computational and Theoretical Chemistry</i> , 2003, 630, 141-149.	1.5	24
29	Role of Surface Metal Clusters in SERS Spectra of Ligands Adsorbed on Ag Colloidal Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 762-767.	3.1	24
30	Structure and Dynamics of Br ⁻ Ion in Liquid Methanol. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14923-14928.	2.6	23
31	DFT investigation on the SERS band at $\tilde{\nu} \approx 1025 \text{ cm}^{-1}$ of pyridine adsorbed on silver. <i>Chemical Physics Letters</i> , 2007, 436, 179-183.	2.6	23
32	Wavelet Transform for Spectroscopic Analysis: Application to Diols in Water. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1109-1118.	5.3	23
33	Interaction of hydroxychloroquine with SARS-CoV2 functional proteins using all-atoms non-equilibrium alchemical simulations. <i>Chemical Communications</i> , 2020, 56, 8854-8856.	4.1	22
34	Ab-initio molecular dynamics study of the SN2 reaction Cl ⁻ + ClCH2CN. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 2559-2566.	2.8	21
35	Lithium Hydroxide Phase Transition under High Pressure: An Ab Initio Molecular Dynamics Study. <i>ChemPhysChem</i> , 2006, 7, 141-147.	2.1	20
36	Connecting the Water Phase Diagram to the Metastable Domain: High-Pressure Studies in the Supercooled Regime. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3804-3809.	4.6	20

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37	Nitroimidazole-Based Ruthenium(II) Complexes: Playing with Structural Parameters to Design Photostable and Light-Responsive Antibacterial Agents. <i>Inorganic Chemistry</i> , 2022, 61, 6689-6694.	4.0	20
38	The solvation dynamics of Na ⁺ and K ⁺ ions in liquid methanol. <i>Theoretical Chemistry Accounts</i> , 2007, 118, 417-423.	1.4	19
39	Mechanism of the Ethylene Polymerization at Very High Pressure. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 646-651.	5.3	18
40	Spectroscopic properties with a combined approach of ab initio molecular dynamics and wavelet analysis. <i>Journal of Molecular Structure</i> , 2011, 993, 438-442.	3.6	18
41	Fine-tuning of atomic point charges: Classical simulations of pyridine in different environments. <i>Chemical Physics Letters</i> , 2017, 677, 120-126.	2.6	18
42	DFT calculations of the IR and Raman spectra of anthraquinone dyes and lakes. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 668-683.	2.5	18
43	Ab Initio Molecular Dynamics Study of Mg ²⁺ and Ca ²⁺ Ions in Liquid Methanol. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 156-163.	5.3	17
44	High-Pressure Photoinduced Synthesis of Polynitrogen in $\hat{\Gamma}$ and $\check{\Gamma}$ Nitrogen Crystals Substitutionally Doped with CO. <i>Journal of Physical Chemistry C</i> , 2015, 119, 130-140.	3.1	17
45	Solvation Dynamics and Adsorption on Ag Hydrosols of Oxazole: A Raman and Computational Study. <i>Journal of Physical Chemistry A</i> , 2009, 113, 15198-15205.	2.5	16
46	Pressure Dependence of Hydrogen-Bond Dynamics in Liquid Water Probed by Ultrafast Infrared Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3579-3584.	4.6	16
47	Surface-enhanced Raman microspectroscopy of DNA/RNA bases adsorbed on pyroxene rocks as a test of <i>in situ</i> search for life traces on Mars. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 12-15.	2.5	15
48	Structural and Vibrational Properties of Arsenic Sulfides: Alacranite (As ₈ S ₉). <i>Journal of Physical Chemistry A</i> , 2011, 115, 4558-4562.	2.5	15
49	Exploring the effect of Mg ²⁺ substitution on amorphous calcium phosphate nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 444-453.	9.4	15
50	Bifurcated Hydrogen Bond in Lithium Nitrate Trihydrate Probed by ab Initio Molecular Dynamics. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2147-2153.	2.5	14
51	XP-PCM Calculations of High Pressure Structural and Vibrational Properties of P ₄ S ₃ . <i>Journal of Physical Chemistry A</i> , 2016, 120, 5136-5144.	2.5	14
52	Insights on the Realgar Crystal Under Pressure from XP-PCM and Periodic Model Calculations. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8825-8834.	2.5	14
53	Binding Free Energies of Host-Guest Systems by Nonequilibrium Alchemical Simulations with Constrained Dynamics: Theoretical Framework. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5874-5886.	5.3	14
54	Binding Free Energies of Host-Guest Systems by Nonequilibrium Alchemical Simulations with Constrained Dynamics: Illustrative Calculations and Numerical Validation. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5887-5899.	5.3	14

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55	Car-Parrinello molecular dynamics of the SN2 reaction $\text{Cl}^- + \text{Cl}_2\text{CH}_2$. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 4870-4873.	2.8	13
56	Positively Charged Active Sites for the Adsorption of Five-Membered Heterocycles on Silver Colloids. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2328-2333.	3.1	13
57	Red lakes from Leonardo's Last Supper and other Old Master Paintings: Micro-Raman spectroscopy of anthraquinone pigments in paint cross-sections. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 222, 117273.	3.9	13
58	Structural and Spectroscopic Properties of Methanediol in Aqueous Solutions from Quantum Chemistry Calculations and Ab Initio Molecular Dynamics Simulations. <i>Journal of Physical Chemistry A</i> , 2015, 119, 290-298.	2.5	11
59	New atomistic model of pyrrole with improved liquid state properties and structure. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25554.	2.0	11
60	Virtual Double-System Single-Box for Absolute Dissociation Free Energy Calculations in GROMACS. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 5320-5326.	5.4	11
61	Solid-State Phase Transition Induced by Pressure in $\text{LiOH} \cdot \text{H}_2\text{O}$. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13539-13546.	2.6	10
62	Hydrogen bond effects in the vibrational spectra of 1,3-propanediol in acetonitrile: <i>Ab initio</i> and experimental study. <i>Journal of Chemical Physics</i> , 2012, 137, 244501.	3.0	10
63	Evidence of a Low-High Density Turning Point in Liquid Water at Ordinary Temperature under Pressure: A Molecular Dynamics Study. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6414-6418.	4.6	9
64	Imidazole in Aqueous Solution: Hydrogen Bond Interactions and Structural Reorganization with Concentration. <i>Journal of Physical Chemistry B</i> , 2019, 123, 4055-4064.	2.6	9
65	Raman and infrared spectra of minerals from ab initio molecular dynamics simulations: The spodumene crystal. <i>Journal of Molecular Structure</i> , 2011, 993, 151-154.	3.6	8
66	SERS investigation of possible extraterrestrial life traces: Experimental adsorption of adenine on a Martian meteorite. <i>Meteoritics and Planetary Science</i> , 2012, 47, 853-860.	1.6	8
67	Vibronic coherences in light harvesting nanotubes: unravelling the role of dark states. <i>Journal of Materials Chemistry C</i> , 2022, 10, 7216-7226.	5.5	8
68	Competitive Solvation and Chemisorption in Silver Colloidal Suspensions. , 2012, , 39-44.		7
69	Thermal effects on the $\text{Cl}^- + \text{ClCH}_2\text{CN}$ reaction by Car-Parrinello molecular dynamics. <i>Journal of Chemical Physics</i> , 2002, 117, 2199-2204.	3.0	6
70	Intramolecular solvation effects in the SN2 reaction $\text{Cl}^- + \text{Cl}(\text{CH}_2)_n\text{CN}$. <i>Journal of Chemical Physics</i> , 2003, 119, 9063-9072.	3.0	6
71	Toward an Understanding of the Pressure Effect on the Intramolecular Vibrational Frequencies of Sulfur Hexafluoride. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6362-6373.	2.5	6
72	Problems in molecular dynamics of condensed phases. <i>Theoretical Chemistry Accounts</i> , 2007, 117, 1105-1120.	1.4	5

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73	Computational Investigation of the Selective Cleavage of Diastereotopic Cyclopropane Bonds in 5-Spirocyclopropane Isoxazolidines Rearrangement. <i>Journal of Organic Chemistry</i> , 2019, 84, 6757-6764.	3.2	5
74	Computational Spectroscopy in Solution by Integration of Variational and Perturbative Approaches on Top of Clusterized Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5747-5761.	5.3	5
75	Enhancing the Accuracy of Ab Initio Molecular Dynamics by Fine Tuning of Effective Two-Body Interactions: Acetonitrile as a Test Case. <i>Journal of Physical Chemistry A</i> , 2021, 125, 10475-10484.	2.5	4
76	Spectroscopy and monitoring of high pressure phenomena. <i>Journal of Molecular Structure</i> , 2009, 924-926, 2-8.	3.6	3
77	Nanostructured Ag Platforms as Biosensors of Nucleobase Chains. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 8763-8767.	0.9	3
78	Fabrication of nanostructured silver substrates for surface-enhanced Raman spectroscopy. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5863-5871.	1.9	3
79	Identification of Di(oxymethylene)glycol in the Raman Spectrum of Formaldehyde Aqueous Solutions by ab Initio Molecular Dynamics Simulations and Quantum Chemistry Calculations. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9785-9793.	2.5	3
80	“Cyclopropylidene Effect” in the 1,3-Dipolar Cycloaddition of Nitrones to Alkylidene Cyclopropanes: A Computational Rationalization. <i>Journal of Physical Chemistry A</i> , 2021, 125, 3892-3899.	2.5	3
81	A multi-technique approach to predicting the molecular structure of cuprizonone in the gas phase and in the crystalline state. <i>CrystEngComm</i> , 2008, , .	2.6	2
82	Photochemical Reactivity of 1,6-Methano[10]annulene. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4412-4421.	2.5	2
83	Spectroscopic studies on antimalarial Artesunate: Raman and surface-enhanced Raman scattering and adsorption geometries of Artesunate on silver nanoparticles. <i>Journal of Molecular Structure</i> , 2021, 1224, 129020.	3.6	2
84	Adsorption Geometry of Alizarin on Silver Nanoparticles: A Computational and Spectroscopic Study. <i>Nanomaterials</i> , 2021, 11, 860.	4.1	2
85	Ethanol electro-oxidation reaction on the Pd(111) surface in alkaline media: insights from quantum and molecular mechanics. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	2
86	Modification of local and collective dynamics of water in perchlorate solution, induced by pressure and concentration. <i>Journal of Molecular Liquids</i> , 2021, 337, 116273.	4.9	1
87	Development, Validation, and Pilot Application of a Generalized Fluctuating Charge Model for Computational Spectroscopy in Solution. <i>ACS Omega</i> , 2022, 7, 13382-13394.	3.5	1
88	Conformational and solvent effects in structural and spectroscopic properties of 2-hydroxyethyl methacrylate and acrylic acid. <i>Journal of Molecular Liquids</i> , 2022, 360, 119428.	4.9	1
89	Surface-Enhanced Raman Scattering Investigation of Nucleobases Adsorbed on Samples of Martian Analogue Material. <i>Spectroscopy Letters</i> , 2011, 44, 580-584.	1.0	0
90	Correspondence between light-absorption spectrum and nonequilibrium work distribution as a mean to access free energy differences between electronic states. <i>Journal of Chemical Physics</i> , 2018, 149, 084101.	3.0	0

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91	Regioselective Deuteration of a 3,4-Dialkoxypyrroline <i>N</i> -Oxide and Synthesis of 8-Indolizidines. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 3423-3429.	2.4	0