

Ana Vila Verde

List of Publications by Year in descending order

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37
papers

816
citations

516710

16
h-index

501196

28
g-index

40
all docs

40
docs citations

40
times ranked

1191
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating the Specificity of Peptide Adsorption on Gold Using Molecular Dynamics Simulations. <i>Biomacromolecules</i> , 2009, 10, 2118-2128.	5.4	121
2	Ultrafast Reorientation of Dangling OH Groups at the Air-Water Interface Using Femtosecond Vibrational Spectroscopy. <i>Physical Review Letters</i> , 2011, 107, 116102.	7.8	84
3	Statics and Dynamics of Free and Hydrogen-Bonded OH Groups at the Air/Water Interface. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9467-9481.	2.6	53
4	Molecular mechanics of coiled coils loaded in the shear geometry. <i>Chemical Science</i> , 2018, 9, 4610-4621.	7.4	48
5	Developing force fields when experimental data is sparse: AMBER/GAFF-compatible parameters for inorganic and alkyl oxoanions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20593-20607.	2.8	45
6	Adsorption of Homopolypeptides on Gold Investigated Using Atomistic Molecular Dynamics. <i>Langmuir</i> , 2011, 27, 5918-5926.	3.5	43
7	Simulation study of micelle formation by bile salts. <i>Soft Matter</i> , 2010, 6, 3815.	2.7	41
8	Temperature-sensitive colloidal phase behavior induced by critical Casimir forces. <i>Journal of Chemical Physics</i> , 2013, 139, 094903.	3.0	41
9	The Multiple Origins of the Hydrophobicity of Fluorinated Apolar Amino Acids. <i>CheM</i> , 2017, 3, 881-897.	11.7	39
10	Disaccharide Topology Induces Slowdown in Local Water Dynamics. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7069-7084.	2.6	37
11	Solvent-shared pairs of densely charged ions induce intense but short-range supra-additive slowdown of water rotation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1918-1930.	2.8	30
12	Unexpected trends in the hydrophobicity of fluorinated amino acids reflect competing changes in polarity and conformation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2029-2038.	2.8	28
13	Cooperative Slowdown of Water Rotation near Densely Charged Ions Is Intense but Short-Ranged. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10556-10566.	2.6	24
14	Hydrophobic but Water-Friendly: Favorable Water-Perfluoromethyl Interactions Promote Hydration Shell Defects. <i>Journal of the American Chemical Society</i> , 2019, 141, 15856-15868.	13.7	24
15	Influence of Glycosidic Linkage Neighbors on Disaccharide Conformation in Vacuum. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13775-13785.	2.6	19
16	Cooperativity and ion pairing in magnesium sulfate aqueous solutions from the dilute regime to the solubility limit. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12140-12153.	2.8	18
17	Is the Solution Activity Derivative Sufficient to Parametrize Ion-Ion Interactions? Ions for TIP5P Water. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2112-2122.	5.3	17
18	Benefits in Cost and Reduced Discomfort of New Techniques of Minimally Invasive Cavity Treatment. <i>Journal of Dental Research</i> , 2009, 88, 297-299.	5.2	16

#	ARTICLE	IF	CITATIONS
19	The Free OD at the Air/D ₂ O Interface Is Structurally and Dynamically Heterogeneous. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11753-11764.	2.6	13
20	Kinetics of formation of bile salt micelles from coarse-grained Langevin dynamics simulations. <i>Soft Matter</i> , 2016, 12, 5172-5179.	2.7	13
21	Trimeric coiled coils expand the range of strength, toughness and dynamics of coiled coil motifs under shear. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29105-29115.	2.8	11
22	Unfolding mechanism and free energy landscape of single, stable, alpha helices at low pull speeds. <i>Soft Matter</i> , 2020, 16, 9917-9928.	2.7	6
23	Proteins maintain hydration at high [KCl] concentration regardless of content in acidic amino acids. <i>Biophysical Journal</i> , 2021, 120, 2746-2762.	0.5	6
24	Mesoscopic modelling of the interaction of infrared lasers with composite materials: an application to human dental enamel. <i>Applied Surface Science</i> , 2004, 238, 410-414.	6.1	5
25	Boundary conditions for 3D dynamic models of ablation of ceramics by pulsed mid-infrared lasers. <i>Applied Surface Science</i> , 2005, 247, 354-361.	6.1	5
26	Modelling the influence of pore size on the response of materials to infrared lasers – An application to human enamel. <i>Applied Surface Science</i> , 2005, 248, 446-449.	6.1	4
27	The role of mesoscopic modelling in understanding the response of dental enamel to mid-infrared radiation. <i>Physics in Medicine and Biology</i> , 2007, 52, 2703-2717.	3.0	4
28	Goodness of fit testing in dynamic single-molecule force spectroscopy. <i>Journal of Chemical Physics</i> , 2018, 149, 244120.	3.0	4
29	Quantifying how step-wise fluorination tunes local solute hydrophobicity, hydration shell thermodynamics and the quantum mechanical contributions of solute-water interactions. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 22997-23008.	2.8	4
30	Modeling of the human enamel laser ablation process at the mesoscopic scale. , 2003, 4950, 72.		3
31	Mesoscopic modelling of enamel interaction with mid-infrared sub-ablative laser pulses. <i>Thin Solid Films</i> , 2004, 453-454, 89-93.	1.8	3
32	Mechanical and thermal response of enamel to IR radiation: a finite element mesoscopic model. , 2005, , .		2
33	The influence of pulse duration on the stress levels in ablation of ceramics: A finite element study. <i>Applied Surface Science</i> , 2006, 252, 4511-4515.	6.1	2
34	Influence of Methylene Fluorination and Chain Length on the Hydration Shell Structure and Thermodynamics of Linear Diols. <i>Journal of Physical Chemistry B</i> , 2021, 125, 13552-13564.	2.6	1
35	Comment on ‘Principal Role of the Stepwise Aggregation Mechanism in Ionic Surfactant Solutions Near the Critical Micelle Concentration. <i>Molecular Dynamics Study</i> ’. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1927-1927.	2.6	0
36	How Biomolecules Influence Water Structure and Dynamics. <i>Biophysical Journal</i> , 2011, 100, 195a.	0.5	0

#	ARTICLE	IF	CITATIONS
37	Tribute to Dor Ben-Amotz. Journal of Physical Chemistry B, 2022, 126, 2943-2945.	2.6	0