Ana Vila Verde

List of Publications by Year
in descending order

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	Tribute to Dor Ben-Amotz. Journal of Physical Chemistry B, 2022, 126, 2943-2945.	2.6	0
2	Proteins maintain hydration at high [KCl] concentration regardless of content in acidic amino acids. Biophysical Journal, 2021, 120, 2746-2762.	0.5	6
3	Influence of Methylene Fluorination and Chain Length on the Hydration Shell Structure and Thermodynamics of Linear Diols. Journal of Physical Chemistry B, 2021, 125, 13552-13564.	2.6	1
4	Unfolding mechanism and free energy landscape of single, stable, alpha helices at low pull speeds. Soft Matter, 2020, 16, 9917-9928.	2.7	6
5	Quantifying how step-wise fluorination tunes local solute hydrophobicity, hydration shell thermodynamics and the quantum mechanical contributions of soluteâ€“water interactions. Physical Chemistry Chemical Physics, 2020, 22, 22997-23008.	2.8	4
6	Cooperativity and ion pairing in magnesium sulfate aqueous solutions from the dilute regime to the solubility limit. Physical Chemistry Chemical Physics, 2020, 22, 12140-12153.	2.8	18
7	Hydrophobic but Water-Friendly: Favorable Waterâ€“Perfluoromethyl Interactions Promote Hydration Shell Defects. Journal of the American Chemical Society, 2019, 141, 15856-15868.	13.7	24
8	Unexpected trends in the hydrophobicity of fluorinated amino acids reflect competing changes in polarity and conformation. Physical Chemistry Chemical Physics, 2019, 21, 2029-2038.	2.8	28
9	Molecular mechanics of coiled coils loaded in the shear geometry. Chemical Science, 2018, 9, 4610-4621.	7.4	48
10	Trimeric coiled coils expand the range of strength, toughness and dynamics of coiled coil motifs under shear. Physical Chemistry Chemical Physics, 2018, 20, 29105-29115.	2.8	11
11	Goodness of fit testing in dynamic single-molecule force spectroscopy. Journal of Chemical Physics, 2018, 149, 244120.	3.0	4
12	Is the Solution Activity Derivative Sufficient to Parametrize Ionâ€“Ion Interactions? Ions for TIP5P Water. Journal of Chemical Theory and Computation, 2017, 13, 2112-2122.	5.3	17
13	The Multiple Origins of the Hydrophobicity of Fluorinated Apolar Amino Acids. CheM, 2017, 3, 881-897.	11.7	39
14	Developing force fields when experimental data is sparse: AMBER/GAFF-compatible parameters for inorganic and alkyl oxoanions. Physical Chemistry Chemical Physics, 2017, 19, 20593-20607.	2.8	45
15	Kinetics of formation of bile salt micelles from coarse-grained Langevin dynamics simulations. Soft Matter, 2016, 12, 5172-5179.	2.7	13
16	Solvent-shared pairs of densely charged ions induce intense but short-range supra-additive slowdown of water rotation. Physical Chemistry Chemical Physics, 2016, 18, 1918-1930.	2.8	30
17	Temperature-sensitive colloidal phase behavior induced by critical Casimir forces. Journal of Chemical Physics, 2013, 139, 094903.	3.0	41
18	The Free OD at the Air/D₂O Interface Is Structurally and Dynamically Heterogeneous. Journal of Physical Chemistry B, 2013, 117, 11753-11764.	2.6	13

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19	Cooperative Slowdown of Water Rotation near Densely Charged Ions Is Intense but Short-Ranged. Journal of Physical Chemistry B, 2013, 117, 10556-10566.	2.6	24
20	Statics and Dynamics of Free and Hydrogen-Bonded OH Groups at the Air/Water Interface. Journal of Physical Chemistry B, 2012, 116, 9467-9481.	2.6	53
21	Disaccharide Topology Induces Slowdown in Local Water Dynamics. Journal of Physical Chemistry B, 2011, 115, 7069-7084.	2.6	37
22	Comment on â€œPrincipal Role of the Stepwise Aggregation Mechanism in Ionic Surfactant Solutions Near the Critical Micelle Concentration. Molecular Dynamics Studyâ€• Journal of Physical Chemistry B, 2011, 115, 1927-1927.	2.6	0
23	Adsorption of Homopolypeptides on Gold Investigated Using Atomistic Molecular Dynamics. Langmuir, 2011, 27, 5918-5926.	3.5	43
24	How Biomolecules Influence Water Structure and Dynamics. Biophysical Journal, 2011, 100, 195a.	0.5	0
25	Ultrafast Reorientation of Dangling OH Groups at the Air-Water Interface Using Femtosecond Vibrational Spectroscopy. Physical Review Letters, 2011, 107, 116102.	7.8	84
26	Simulation study of micelle formation by bile salts. Soft Matter, 2010, 6, 3815.	2.7	41
27	Benefits in Cost and Reduced Discomfort of New Techniques of Minimally Invasive Cavity Treatment. Journal of Dental Research, 2009, 88, 297-299.	5.2	16
28	Investigating the Specificity of Peptide Adsorption on Gold Using Molecular Dynamics Simulations. Biomacromolecules, 2009, 10, 2118-2128.	5.4	121
29	The role of mesoscopic modelling in understanding the response of dental enamel to mid-infrared radiation. Physics in Medicine and Biology, 2007, 52, 2703-2717.	3.0	4
30	Influence of Glycosidic Linkage Neighbors on Disaccharide Conformation in Vacuum. Journal of Physical Chemistry B, 2007, 111, 13775-13785.	2.6	19
31	The influence of pulse duration on the stress levels in ablation of ceramics: A finite element study. Applied Surface Science, 2006, 252, 4511-4515.	6.1	2
32	Boundary conditions for 3D dynamic models of ablation of ceramics by pulsed mid-infrared lasers. Applied Surface Science, 2005, 247, 354-361.	6.1	5
33	Modelling the influence of pore size on the response of materials to infrared lasers â€“ An application to human enamel. Applied Surface Science, 2005, 248, 446-449.	6.1	4
34	Mechanical and thermal response of enamel to IR radiation: a finite element mesoscopic model. , 2005, , .		2
35	Mesoscopic modelling of enamel interaction with mid-infrared sub-ablative laser pulses. Thin Solid Films, 2004, 453-454, 89-93.	1.8	3
36	Mesoscopic modelling of the interaction of infrared lasers with composite materials: an application to human dental enamel. Applied Surface Science, 2004, 238, 410-414.	6.1	5

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37	Modeling of the human enamel laser ablation process at the mesoscopic scale. , 2003, 4950, 72.		3