

Ilan Benjamin

List of Publications by Year in descending order

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48
papers

2,235
citations

257450

24
h-index

214800

47
g-index

49
all docs

49
docs citations

49
times ranked

1377
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical study of the water/1,2-dichloroethane interface: Structure, dynamics, and conformational equilibria at the liquid-liquid interface. <i>Journal of Chemical Physics</i> , 1992, 97, 1432-1445.	3.0	281
2	MOLECULAR STRUCTURE AND DYNAMICS AT LIQUID-LIQUID INTERFACES. <i>Annual Review of Physical Chemistry</i> , 1997, 48, 407-451.	10.8	271
3	Ion Distributions near a Liquid-Liquid Interface. <i>Science</i> , 2006, 311, 216-218.	12.6	229
4	Theoretical study of ion solvation at the water liquid-vapor interface. <i>Journal of Chemical Physics</i> , 1991, 95, 3698-3709.	3.0	134
5	Transfer of Small Ions across the Water/1,2-Dichloroethane Interface. <i>The Journal of Physical Chemistry</i> , 1995, 99, 9974-9985.	2.9	90
6	Static and Dynamic Electronic Spectroscopy at Liquid Interfaces. <i>Chemical Reviews</i> , 2006, 106, 1212-1233.	47.7	87
7	Theory and Computer Simulations of Solvation and Chemical Reactions at Liquid Interfaces. <i>Accounts of Chemical Research</i> , 1995, 28, 233-239.	15.6	80
8	Molecular dynamics simulation of the water nitrobenzene interface. <i>Journal of Electroanalytical Chemistry</i> , 1998, 450, 335-345.	3.8	70
9	Transfer of a Tetramethylammonium Ion across the Water~Nitrobenzene Interface: A Potential of Mean Force and Nonequilibrium Dynamics. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10274-10279.	2.5	69
10	Nanoscale view of assisted ion transport across the liquid-liquid interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18227-18232.	7.1	68
11	Dynamics of ion transfer across a liquid-liquid interface: A comparison between molecular dynamics and a diffusion model. <i>Journal of Chemical Physics</i> , 1992, 96, 577-585.	3.0	64
12	Electric field effects on the structure and dynamics at a liquid liquid interface. <i>Journal of Electroanalytical Chemistry</i> , 1995, 391, 1-10.	3.8	57
13	Solvent Effects on Electronic Spectra at Liquid Interfaces. A Continuum Electrostatic Model. <i>Journal of Physical Chemistry A</i> , 1998, 102, 9500-9506.	2.5	56
14	Reaction Dynamics at Liquid Interfaces. <i>Annual Review of Physical Chemistry</i> , 2015, 66, 165-188.	10.8	53
15	Molecular dynamics study of the free energy functions for electron-transfer reactions at the liquid-liquid interface. <i>The Journal of Physical Chemistry</i> , 1991, 95, 6675-6683.	2.9	47
16	Free Energy of Transfer of Hydrated Ion Clusters from Water to an Immiscible Organic Solvent. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9296-9303.	2.6	44
17	Ion distributions at the nitrobenzene-water interface electrified by a common ion. <i>Journal of Electroanalytical Chemistry</i> , 2006, 593, 142-158.	3.8	42
18	Hydration Shell Exchange Dynamics during Ion Transfer Across the Liquid/Liquid Interface. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16455-16462.	2.6	36

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19	Recombination, Dissociation, and Transport of Ion Pairs across the Liquid/Liquid Interface. Implications for Phase Transfer Catalysis. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4325-4331.	2.6	36
20	Unusual Structure and Dynamics at Silica/Methanol and Silica/Ethanol Interfaces—A Molecular Dynamics and Nonlinear Optical Study. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1569-1578.	2.6	36
21	Structure and Dynamics of Hydrated Ions in a Water-Immiscible Organic Solvent. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15801-15806.	2.6	32
22	Geometric and energetic considerations of surface fluctuations during ion transfer across the water-immiscible organic liquid interface. <i>Journal of Chemical Physics</i> , 2016, 145, 014701.	3.0	28
23	Reorganization free energy for electron transfer reactions at liquid/liquid interfaces. <i>Electrochimica Acta</i> , 1998, 44, 133-138.	5.2	27
24	Vibrational relaxation at water surfaces. <i>Journal of Chemical Physics</i> , 2002, 117, 4532-4541.	3.0	26
25	Solute dynamics at aqueous interfaces. <i>Chemical Physics Letters</i> , 2009, 469, 229-241.	2.6	22
26	Effect of a Phase Transfer Catalyst on the Dynamics of an S_N2 Reaction. A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2290-2296.	3.1	20
27	Empirical valence bond model of an S_N2 reaction in polar and nonpolar solvents. <i>Journal of Chemical Physics</i> , 2008, 129, 074508.	3.0	19
28	A Molecular Dynamics—Empirical Valence Bond Study of an S_N2 Reaction at the Water/Chloroform Interface. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1154-1163.	3.1	19
29	Dynamics of ion desorption from the liquid—vapor interface of water. <i>Chemical Physics Letters</i> , 1993, 202, 379-383.	2.6	18
30	Antagonistic Role of Aqueous Complexation in the Solvent Extraction and Separation of Rare Earth Ions. <i>ACS Central Science</i> , 2021, 7, 1908-1918.	11.3	18
31	Molecular dynamics study of the vibrational relaxation of OCl and OCl ⁻ in the bulk and the surface of water and acetonitrile. <i>Journal of Molecular Liquids</i> , 2004, 110, 133-139.	4.9	15
32	Molecular dynamics study of hydrated alkali and halide ions in liquid nitrobenzene. <i>Journal of Electroanalytical Chemistry</i> , 2010, 650, 41-46.	3.8	14
33	β-Cyclodextrin at the Water/1-Bromobutane Interface: Molecular Insight into Reverse Phase Transfer Catalysis. <i>Langmuir</i> , 2015, 31, 5086-5092.	3.5	13
34	Influence of Surface Tension on Adsorbate Molecular Rotation at Liquid/Liquid Interfaces. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15443-15445.	2.6	12
35	Microhydration effects on a model S_N2 reaction in a nonpolar solvent. <i>Journal of Chemical Physics</i> , 2009, 130, 194502.	3.0	11
36	Transfer of an erbium ion across the water/dodecane interface: Structure and thermodynamics via molecular dynamics simulations. <i>Chemical Physics Letters</i> , 2019, 737, 136825.	2.6	11

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37	A molecular dynamics/EVB study of an SN2 reaction in water clusters. <i>Chemical Physics Letters</i> , 2010, 492, 220-225.	2.6	9
38	Photoinduced Excited State Electron Transfer at Liquid/Liquid Interfaces. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7703-7714.	2.6	9
39	Hydronium ion at the water/1,2-dichloroethane interface: Structure, thermodynamics, and dynamics of ion transfer. <i>Journal of Chemical Physics</i> , 2019, 151, 094701.	3.0	9
40	A model SN2 reaction on water™ does not show rate enhancement. <i>Chemical Physics Letters</i> , 2011, 508, 59-62.	2.6	8
41	Miscibility at the immiscible liquid/liquid interface: A molecular dynamics study of thermodynamics and mechanism. <i>Journal of Chemical Physics</i> , 2018, 148, 034707.	3.0	8
42	On the local intermolecular ordering and dynamics of liquid chloroform. <i>Journal of Molecular Liquids</i> , 2017, 248, 121-126.	4.9	7
43	Electron transfer at the interface between water and self-assembled monolayers. <i>Chemical Physics Letters</i> , 2004, 385, 79-84.	2.6	6
44	SN2 Reaction Rate Enhancement by β -Cyclodextrin at the Liquid/Liquid Interface. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19209-19217.	3.1	6
45	Mechanism and Dynamics of Molecular Exchange at the Silica/Binary Solvent Mixtures Interface. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12073-12081.	2.5	5
46	Structure and Dynamics of Host/Guest Complexation at the Liquid/Liquid Interface: Implications for Inverse Phase Transfer Catalysis. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4999-5011.	3.1	4
47	Molecular Dynamics Studies on the Effect of Surface Roughness and Surface Tension on the Thermodynamics and Dynamics of Hydronium Ion Transfer Across the Liquid/Liquid Interface. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8711-8718.	2.6	4
48	Deconstructing the Local Intermolecular Ordering and Dynamics of Liquid Chloroform and Bromoform. <i>Journal of Physical Chemistry B</i> , 2021, 125, 3629-3637.	2.6	1