Ilan Benjamin

List of Publications by Year
in descending order

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	Deconstructing the Local Intermolecular Ordering and Dynamics of Liquid Chloroform and Bromoform. Journal of Physical Chemistry B, 2021, 125, 3629-3637.	2.6	1
2	Antagonistic Role of Aqueous Complexation in the Solvent Extraction and Separation of Rare Earth Ions. ACS Central Science, 2021, 7, 1908-1918.	11.3	18
3	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. Journal of Physical Chemistry B, 2020, 124, 8711-8718.	2.6	4
4	Transfer of an erbium ion across the water/dodecane interface: Structure and thermodynamics via molecular dynamics simulations. Chemical Physics Letters, 2019, 737, 136825.	2.6	11
5	Hydronium ion at the water/1,2-dichloroethane interface: Structure, thermodynamics, and dynamics of ion transfer. Journal of Chemical Physics, 2019, 151, 094701.	3.0	9
6	Nanoscale view of assisted ion transport across the liquidâ€“liquid interface. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18227-18232.	7.1	68
7	Miscibility at the immiscible liquid/liquid interface: A molecular dynamics study of thermodynamics and mechanism. Journal of Chemical Physics, 2018, 148, 034707.	3.0	8
8	Structure and Dynamics of Host/Guest Complexation at the Liquid/Liquid Interface: Implications for Inverse Phase Transfer Catalysis. Journal of Physical Chemistry C, 2017, 121, 4999-5011.	3.1	4
9	On the local intermolecular ordering and dynamics of liquid chloroform. Journal of Molecular Liquids, 2017, 248, 121-126.	4.9	7
10	SN2 Reaction Rate Enhancement by Î²-Cyclodextrin at the Liquid/Liquid Interface. Journal of Physical Chemistry C, 2017, 121, 19209-19217.	3.1	6
11	Geometric and energetic considerations of surface fluctuations during ion transfer across the water-immiscible organic liquid interface. Journal of Chemical Physics, 2016, 145, 014701.	3.0	28
12	Unusual Structure and Dynamics at Silica/Methanol and Silica/Ethanol Interfacesâ€”A Molecular Dynamics and Nonlinear Optical Study. Journal of Physical Chemistry B, 2016, 120, 1569-1578.	2.6	36
13	Reaction Dynamics at Liquid Interfaces. Annual Review of Physical Chemistry, 2015, 66, 165-188.	10.8	53
14	Mechanism and Dynamics of Molecular Exchange at the Silica/Binary Solvent Mixtures Interface. Journal of Physical Chemistry A, 2015, 119, 12073-12081.	2.5	5
15	Î²-Cyclodextrin at the Water/1-Bromobutane Interface: Molecular Insight into Reverse Phase Transfer Catalysis. Langmuir, 2015, 31, 5086-5092.	3.5	13
16	Photoinduced Excited State Electron Transfer at Liquid/Liquid Interfaces. Journal of Physical Chemistry B, 2014, 118, 7703-7714.	2.6	9
17	Recombination, Dissociation, and Transport of Ion Pairs across the Liquid/Liquid Interface. Implications for Phase Transfer Catalysis. Journal of Physical Chemistry B, 2013, 117, 4325-4331.	2.6	36
18	Effect of a Phase Transfer Catalyst on the Dynamics of an S_N2 Reaction. A Molecular Dynamics Study. Journal of Physical Chemistry C, 2011, 115, 2290-2296.	3.1	20

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19	A model SN2 reaction â€˜on waterâ€™ does not show rate enhancement. Chemical Physics Letters, 2011, 508, 59-62.	2.6	8
20	A molecular dynamics/EVB study of an SN2 reaction in water clusters. Chemical Physics Letters, 2010, 492, 220-225.	2.6	9
21	Molecular dynamics study of hydrated alkali and halide ions in liquid nitrobenzene. Journal of Electroanalytical Chemistry, 2010, 650, 41-46.	3.8	14
22	A Molecular Dynamicsâ€”Empirical Valence Bond Study of an S_N2 Reaction at the Water/Chloroform Interface. Journal of Physical Chemistry C, 2010, 114, 1154-1163.	3.1	19
23	Microhydration effects on a model SN2 reaction in a nonpolar solvent. Journal of Chemical Physics, 2009, 130, 194502.	3.0	11
24	Solute dynamics at aqueous interfaces. Chemical Physics Letters, 2009, 469, 229-241.	2.6	22
25	Free Energy of Transfer of Hydrated Ion Clusters from Water to an Immiscible Organic Solvent. Journal of Physical Chemistry B, 2009, 113, 9296-9303.	2.6	44
26	Structure and Dynamics of Hydrated Ions in a Water-Immiscible Organic Solvent. Journal of Physical Chemistry B, 2008, 112, 15801-15806.	2.6	32
27	Empirical valence bond model of an SN2 reaction in polar and nonpolar solvents. Journal of Chemical Physics, 2008, 129, 074508.	3.0	19
28	Static and Dynamic Electronic Spectroscopy at Liquid Interfaces. Chemical Reviews, 2006, 106, 1212-1233.	47.7	87
29	Ion Distributions near a Liquid-Liquid Interface. Science, 2006, 311, 216-218.	12.6	229
30	Ion distributions at the nitrobenzeneâ€“water interface electrified by a common ion. Journal of Electroanalytical Chemistry, 2006, 593, 142-158.	3.8	42
31	Hydration Shell Exchange Dynamics during Ion Transfer Across the Liquid/Liquid Interface. Journal of Physical Chemistry B, 2005, 109, 16455-16462.	2.6	36
32	Molecular dynamics study of the vibrational relaxation of OCl and OClâ¯ in the bulk and the surface of water and acetonitrile. Journal of Molecular Liquids, 2004, 110, 133-139.	4.9	15
33	Electron transfer at the interface between water and self-assembled monolayers. Chemical Physics Letters, 2004, 385, 79-84.	2.6	6
34	Influence of Surface Tension on Adsorbate Molecular Rotation at Liquid/Liquid Interfaces. Journal of Physical Chemistry B, 2004, 108, 15443-15445.	2.6	12
35	Vibrational relaxation at water surfaces. Journal of Chemical Physics, 2002, 117, 4532-4541.	3.0	26
36	Transfer of a Tetramethylammonium Ion across the Waterâ€“Nitrobenzene Interface:Â Potential of Mean Force and Nonequilibrium Dynamics. Journal of Physical Chemistry A, 1999, 103, 10274-10279.	2.5	69

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37	Reorganization free energy for electron transfer reactions at liquid/liquid interfaces. Electrochimica Acta, 1998, 44, 133-138.	5.2	27
38	Molecular dynamics simulation of the water|nitrobenzene interface. Journal of Electroanalytical Chemistry, 1998, 450, 335-345.	3.8	70
39	Solvent Effects on Electronic Spectra at Liquid Interfaces. A Continuum Electrostatic Model. Journal of Physical Chemistry A, 1998, 102, 9500-9506.	2.5	56
40	MOLECULAR STRUCTURE AND DYNAMICS AT LIQUID-LIQUID INTERFACES. Annual Review of Physical Chemistry, 1997, 48, 407-451.	10.8	271
41	Electric field effects on the structure and dynamics at a liquid | liquid interface. Journal of Electroanalytical Chemistry, 1995, 391, 1-10.	3.8	57
42	Transfer of Small Ions across the Water/1,2-Dichloroethane Interface. The Journal of Physical Chemistry, 1995, 99, 9974-9985.	2.9	90
43	Theory and Computer Simulations of Solvation and Chemical Reactions at Liquid Interfaces. Accounts of Chemical Research, 1995, 28, 233-239.	15.6	80
44	Dynamics of ion desorption from the liquidâ€"vapor interface of water. Chemical Physics Letters, 1993, 202, 379-383.	2.6	18
45	Dynamics of ion transfer across a liquidâ€"liquid interface: A comparison between molecular dynamics and a diffusion model. Journal of Chemical Physics, 1992, 96, 577-585.	3.0	64
46	Theoretical study of the water/1,2â€dichloroethane interface: Structure, dynamics, and conformational equilibria at the liquidâ€"liquid interface. Journal of Chemical Physics, 1992, 97, 1432-1445.	3.0	281
47	Theoretical study of ion solvation at the water liquidâ€"vapor interface. Journal of Chemical Physics, 1991, 95, 3698-3709.	3.0	134
48	Molecular dynamics study of the free energy functions for electron-transfer reactions at the liquid-liquid interface. The Journal of Physical Chemistry, 1991, 95, 6675-6683.	2.9	47