

Mark N Kobrak

List of Publications by Year in descending order

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35
papers

1,262
citations

430754

18
h-index

345118

36
g-index

38
all docs

38
docs citations

38
times ranked

1140
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Dynamics Study of Polarity in Room-Temperature Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1072-1079.	1.2	136
2	Solvation dynamics of room-temperature ionic liquids: evidence for collective solvent motion on sub-picosecond timescales. <i>Chemical Physics Letters</i> , 2004, 395, 127-132.	1.2	116
3	Characterization of the solvation dynamics of an ionic liquid via molecular dynamics simulation. <i>Journal of Chemical Physics</i> , 2006, 125, 064502.	1.2	110
4	Metal extraction to ionic liquids: the relationship between structure, mechanism and application. <i>International Reviews in Physical Chemistry</i> , 2015, 34, 591-622.	0.9	81
5	Electrostatic interactions in ionic liquids: the dangers of dipole and dielectric descriptions. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1922.	1.3	78
6	Selective photochemistry via adiabatic passage: An extension of stimulated Raman adiabatic passage for degenerate final states. <i>Physical Review A</i> , 1998, 57, 2885-2894.	1.0	75
7	The relationship between solvent polarity and molar volume in room-temperature ionic liquids. <i>Green Chemistry</i> , 2008, 10, 80-86.	4.6	65
8	Equivalence of the Kobrak-Rice photoselective adiabatic passage and the Brumer-Shapiro strong field methods for control of product formation in a reaction. <i>Journal of Chemical Physics</i> , 1998, 109, 1-10.	1.2	63
9	Quantum molecular dynamics study of polaron recombination in conjugated polymers. <i>Physical Review B</i> , 2000, 62, 11473-11486.	1.1	55
10	A comparative study of solvation dynamics in room-temperature ionic liquids. <i>Journal of Chemical Physics</i> , 2007, 127, 184507.	1.2	53
11	The relationship between ionic structure and viscosity in room-temperature ionic liquids. <i>Journal of Chemical Physics</i> , 2008, 129, 124507.	1.2	52
12	Electrostatic Interactions of a Neutral Dipolar Solute with a Fused Salt: A New Model for Solvation in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4755-4762.	1.2	45
13	Coherent population transfer via a resonant intermediate state: The breakdown of adiabatic passage. <i>Physical Review A</i> , 1998, 57, 1158-1163.	1.0	39
14	Reaction Path Hamiltonian Analysis of Dynamical Solvent Effects for a Claisen Rearrangement and a Diels-Alder Reaction. <i>Journal of Physical Chemistry A</i> , 2000, 104, 8058-8066.	1.1	37
15	Copper extraction using protic ionic liquids: Evidence of the Hofmeister effect. <i>Separation and Purification Technology</i> , 2016, 168, 275-283.	3.9	34
16	Systematic and statistical error in histogram-based free energy calculations. <i>Journal of Computational Chemistry</i> , 2003, 24, 1437-1446.	1.5	31
17	A Novel Mechanism for the Extraction of Metals from Water to Ionic Liquids. <i>ChemPhysChem</i> , 2013, 14, 3806-3813.	1.0	29
18	A dynamic model for exciton self-trapping in conjugated polymers. I. Theory. <i>Journal of Chemical Physics</i> , 2000, 112, 5399-5409.	1.2	19

#	ARTICLE	IF	CITATIONS
19	Molecular Dynamics Simulation of Proton-Coupled Electron Transfer in Solution. <i>Journal of Physical Chemistry B</i> , 2001, 105, 10435-10445.	1.2	16
20	A molecular dynamics study of the influence of ionic charge distribution on the dynamics of a molten salt. <i>Journal of Chemical Physics</i> , 2009, 131, 194507.	1.2	15
21	X-Ray scattering and physicochemical studies of trialkylamine/carboxylic acid mixtures: nanoscale structure in pseudoprotic ionic liquids and related solutions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18639-18646.	1.3	15
22	Extraction of Acids and Bases from Aqueous Phase to a Pseudoprotic Ionic Liquid. <i>Molecules</i> , 2019, 24, 894.	1.7	15
23	Coupled Ion Complexation and Exchange between Aqueous and Ionic Liquid Phases: A Thermodynamic Interpretation. <i>Solvent Extraction and Ion Exchange</i> , 2008, 26, 735-748.	0.8	12
24	Selective Extraction of Metal Ions from Aqueous Phase to Ionic Liquids: A Novel Thermodynamic Approach to Separations. <i>ChemPhysChem</i> , 2014, 15, 3536-3543.	1.0	11
25	A dynamic model for exciton self-trapping in conjugated polymers. II. Implementation. <i>Journal of Chemical Physics</i> , 2000, 112, 5410-5419.	1.2	10
26	A quantum molecular dynamics study of exciton self-trapping in conjugated polymers: Temperature dependence and spectroscopy. <i>Journal of Chemical Physics</i> , 2000, 112, 7684-7692.	1.2	5
27	Instantaneous Normal Mode Analysis of a Series of Model Molten Salts. <i>ChemPhysChem</i> , 2012, 13, 1934-1941.	1.0	4
28	Lewis Structure Representation of Free Radicals Similar to ClO. <i>Journal of Chemical Education</i> , 2007, 84, 1360.	1.1	3
29	(Invited) Notes on the Application of the Kornyshev Model for Capacitance in Ionic Liquids. <i>ECS Transactions</i> , 2010, 33, 411-419.	0.3	3
30	A proposed voltage dependence of the ionic strength of a confined electrolyte based on a grand canonical ensemble model. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 095006.	0.7	3
31	Relationship between liquid nanoscale structure in solvents and the strength of the Hofmeister effect in extraction experiments. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6266-6277.	1.3	3
32	The influence of high-frequency modes on ultrashort pulse absorption initiated processes. <i>Journal of Chemical Physics</i> , 1996, 105, 9403-9411.	1.2	2
33	Polaron recombination dynamics in linear polyenes. <i>Synthetic Metals</i> , 2001, 121, 1635-1636.	2.1	1
34	The influence of high-frequency modes on two pulse spectroscopy. <i>Journal of Chemical Physics</i> , 1997, 107, 4091-4098.	1.2	0
35	The Influence of Charge Distribution on Ion Diffusion in Molten Salts: A Model Study. <i>ECS Transactions</i> , 2012, 41, 13-21.	0.3	0