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	Relationship between liquid nanoscale structure in solvents and the strength of the Hofmeister effect in extraction experiments. Physical Chemistry Chemical Physics, 2021, 23, 6266-6277.	1.3	3
2	Extraction of Acids and Bases from Aqueous Phase to a Pseudoprotic Ionic Liquid. Molecules, 2019, 24, 894.	1.7	15
3	X-Ray scattering and physicochemical studies of trialkylamine/carboxylic acid mixtures: nanoscale structure in pseudoprotic ionic liquids and related solutions. Physical Chemistry Chemical Physics, 2018, 20, 18639-18646.	1.3	15
4	Copper extraction using protic ionic liquids: Evidence of the Hofmeister effect. Separation and Purification Technology, 2016, 168, 275-283.	3.9	34
5	Metal extraction to ionic liquids: the relationship between structure, mechanism and application. International Reviews in Physical Chemistry, 2015, 34, 591-622.	0.9	81
6	Selective Extraction of Metal Ions from Aqueous Phase to Ionic Liquids: A Novel Thermodynamic Approach to Separations. ChemPhysChem, 2014, 15, 3536-3543.	1.0	11
7	A proposed voltage dependence of the ionic strength of a confined electrolyte based on a grand canonical ensemble model. Journal of Physics Condensed Matter, 2013, 25, 095006.	0.7	3
8	A Novel Mechanism for the Extraction of Metals from Water to Ionic Liquids. ChemPhysChem, 2013, 14, 3806-3813.	1.0	29
9	The Influence of Charge Distribution on Ion Diffusion in Molten Salts: A Model Study. ECS Transactions, 2012, 41, 13-21.	0.3	0
10	Instantaneous Normal Mode Analysis of a Series of Model Molten Salts. ChemPhysChem, 2012, 13, 1934-1941.	1.0	4
11	(Invited) Notes on the Application of the Kornyshev Model for Capacitance in Ionic Liquids. ECS Transactions, 2010, 33, 411-419.	0.3	3
12	Electrostatic interactions in ionic liquids: the dangers of dipole and dielectric descriptions. Physical Chemistry Chemical Physics, 2010, 12, 1922.	1.3	78
13	A molecular dynamics study of the influence of ionic charge distribution on the dynamics of a molten salt. Journal of Chemical Physics, 2009, 131, 194507.	1.2	15
14	The relationship between ionic structure and viscosity in room-temperature ionic liquids. Journal of Chemical Physics, 2008, 129, 124507.	1.2	52
15	The relationship between solvent polarity and molar volume in room-temperature ionic liquids. Green Chemistry, 2008, 10, 80-86.	4.6	65
16	Coupled Ion Complexation and Exchange between Aqueous and Ionic Liquid Phases: A Thermodynamic Interpretation. Solvent Extraction and Ion Exchange, 2008, 26, 735-748.	0.8	12
17	A comparative study of solvation dynamics in room-temperature ionic liquids. Journal of Chemical Physics, 2007, 127, 184507.	1.2	53
18	Lewis Structure Representation of Free Radicals Similar to ClO. Journal of Chemical Education, 2007, 84, 1360.	1.1	3

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19	Electrostatic Interactions of a Neutral Dipolar Solute with a Fused Salt:Â A New Model for Solvation in Ionic Liquidsâ€. Journal of Physical Chemistry B, 2007, 111, 4755-4762.	1.2	45
20	Characterization of the solvation dynamics of an ionic liquid via molecular dynamics simulation. Journal of Chemical Physics, 2006, 125, 064502.	1.2	110
21	Solvation dynamics of room-temperature ionic liquids: evidence for collective solvent motion on sub-picosecond timescales. Chemical Physics Letters, 2004, 395, 127-132.	1.2	116
22	Molecular Dynamics Study of Polarity in Room-Temperature Ionic Liquids. Journal of Physical Chemistry B, 2004, 108, 1072-1079.	1.2	136
23	Systematic and statistical error in histogram-based free energy calculations. Journal of Computational Chemistry, 2003, 24, 1437-1446.	1.5	31
24	Polaron recombination dynamics in linear polyenes. Synthetic Metals, 2001, 121, 1635-1636.	2.1	1
25	Molecular Dynamics Simulation of Proton-Coupled Electron Transfer in Solution. Journal of Physical Chemistry B, 2001, 105, 10435-10445.	1.2	16
26	Quantum molecular dynamics study of polaron recombination in conjugated polymers. Physical Review B, 2000, 62, 11473-11486.	1.1	55
27	A quantum molecular dynamics study of exciton self-trapping in conjugated polymers: Temperature dependence and spectroscopy. Journal of Chemical Physics, 2000, 112, 7684-7692.	1.2	5
28	A dynamic model for exciton self-trapping in conjugated polymers. II. Implementation. Journal of Chemical Physics, 2000, 112, 5410-5419.	1.2	10
29	A dynamic model for exciton self-trapping in conjugated polymers. I. Theory. Journal of Chemical Physics, 2000, 112, 5399-5409.	1.2	19
30	Reaction Path Hamiltonian Analysis of Dynamical Solvent Effects for a Claisen Rearrangement and a Dielsâ˜'Alder Reaction. Journal of Physical Chemistry A, 2000, 104, 8058-8066.	1.1	37
31	Selective photochemistry via adiabatic passage:â€ƒAn extension of stimulated Raman adiabatic passage for degenerate final states. Physical Review A, 1998, 57, 2885-2894.	1.0	75
32	Equivalence of the Kobrakâ€“Rice photoselective adiabatic passage and the Brumerâ€“Shapiro strong field methods for control of product formation in a reaction. Journal of Chemical Physics, 1998, 109, 1-10.	1.2	63
33	Coherent population transfer via a resonant intermediate state:â€ƒThe breakdown of adiabatic passage. Physical Review A, 1998, 57, 1158-1163.	1.0	39
34	The influence of high-frequency modes on two pulse spectroscopy. Journal of Chemical Physics, 1997, 107, 4091-4098.	1.2	0
35	The influence of highâ€frequency modes on ultrashort pulse absorption initiated processes. Journal of Chemical Physics, 1996, 105, 9403-9411.	1.2	2