Ray A Matsumoto

List of Publications by Year
in descending order

19	374	933447 10	794594 19
papers	citations	h-index	g-index

19	19	19	382
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Beyond Simple Dilution: Superior Conductivities from Cosolvation of Acetonitrile/LiTFSI Concentrated Solution with Acetone. Journal of Physical Chemistry C, 2022, 126, 2788-2796.	3.1	6
2	Investigation of Multilayered Structures of Ionic Liquids on Graphite and Platinum Using Atomic Force Microscopy and Molecular Simulations. Langmuir, 2022, 38, 4036-4047.	3.5	5
3	Direct Correlation of the Salt-Reduced Diffusivities of Organic Solvents with the Solventâ€™s Mole Fraction. Journal of Physical Chemistry Letters, 2022, 13, 2845-2850.	4.6	2
4	Controlling the Ion Transport Number in Solvent-in-Salt Solutions. Journal of Physical Chemistry B, 2022, 126, 4572-4583.	2.6	5
5	Openâ€source molecular modeling software in chemical engineering focusing on the Molecular Simulation Design Framework. AICHE Journal, 2021, 67, e17206.	3.6	16
6	MoSDeF Cassandra: A complete Python interface for the Cassandra Monte Carlo software. Journal of Computational Chemistry, 2021, 42, 1321-1331.	3.3	4
7	Engineering the Interlayer Spacing by Preâ€Intercalation for High Performance Supercapacitor MXene Electrodes in Room Temperature Ionic Liquid. Advanced Functional Materials, 2021, 31, 2104007.	14.9	64
8	Engineering the Interlayer Spacing by Preâ€Intercalation for High Performance Supercapacitor MXene Electrodes in Room Temperature Ionic Liquid (Adv. Funct. Mater. 33/2021). Advanced Functional Materials, 2021, 31, 2170246.	14.9	2
9	Investigating the Accuracy of Water Models through the Van Hove Correlation Function. Journal of Chemical Theory and Computation, 2021, 17, 5992-6005.	5.3	9
10	Pre-Sodiated Ti₃C₂T_x MXene Structure and Behavior as Electrode for Sodium-Ion Capacitors. ACS Nano, 2021, 15, 2994-3003.	14.6	54
11	In situ investigation of water on MXene interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	24
12	Addition of Chloroform in a Solvent-in-Salt Electrolyte: Outcomes in the Microscopic Dynamics in Bulk and Confinement. Journal of Physical Chemistry C, 2020, 124, 22366-22375.	3.1	7
13	Diffusivity and Structure of Room Temperature Ionic Liquid in Various Organic Solvents. Journal of Physical Chemistry B, 2020, 124, 9931-9937.	2.6	18
14	Critical Role of Anionâ€“Solvent Interactions for Dynamics of Solvent-in-Salt Solutions. Journal of Physical Chemistry C, 2020, 124, 8457-8466.	3.1	32
15	Towards molecular simulations that are transparent, reproducible, usable by others, and extensible (TRUE). Molecular Physics, 2020, 118, e1742938.	1.7	22
16	Microscopic Dynamics in an Ionic Liquid Augmented with Organic Solvents. Journal of Physical Chemistry C, 2019, 123, 19354-19361.	3.1	8
17	Ion Pairing Controls Physical Properties of Ionic Liquid-Solvent Mixtures. Journal of Physical Chemistry B, 2019, 123, 9944-9955.	2.6	25
18	Identifying Waterâ€“Anion Correlated Motion in Aqueous Solutions through Van Hove Functions. Journal of Physical Chemistry Letters, 2019, 10, 7119-7125.	4.6	13

#	Article	IF	Citations
19	Scalable Screening of Soft Matter: A Case Study of Mixtures of Ionic Liquids and Organic Solvents. Journal of Physical Chemistry B, 2019, 123, 1340-1347.	2.6	58