

Ray A Matsumoto

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Engineering the Interlayer Spacing by Pre-Intercalation for High Performance Supercapacitor MXene Electrodes in Room Temperature Ionic Liquid. <i>Advanced Functional Materials</i> , 2021, 31, 2104007.	14.9	64
2	Scalable Screening of Soft Matter: A Case Study of Mixtures of Ionic Liquids and Organic Solvents. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1340-1347.	2.6	58
3	Pre-Sodiated Ti ₃ C ₂ T _x MXene Structure and Behavior as Electrode for Sodium-Ion Capacitors. <i>ACS Nano</i> , 2021, 15, 2994-3003.	14.6	54
4	Critical Role of Anion-Solvent Interactions for Dynamics of Solvent-in-Salt Solutions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8457-8466.	3.1	32
5	Ion Pairing Controls Physical Properties of Ionic Liquid-Solvent Mixtures. <i>Journal of Physical Chemistry B</i> , 2019, 123, 9944-9955.	2.6	25
6	In situ investigation of water on MXene interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	24
7	Towards molecular simulations that are transparent, reproducible, usable by others, and extensible (TRUE). <i>Molecular Physics</i> , 2020, 118, e1742938.	1.7	22
8	Diffusivity and Structure of Room Temperature Ionic Liquid in Various Organic Solvents. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9931-9937.	2.6	18
9	Open-source molecular modeling software in chemical engineering focusing on the Molecular Simulation Design Framework. <i>AIChE Journal</i> , 2021, 67, e17206.	3.6	16
10	Identifying Water-Anion Correlated Motion in Aqueous Solutions through Van Hove Functions. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7119-7125.	4.6	13
11	Investigating the Accuracy of Water Models through the Van Hove Correlation Function. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 5992-6005.	5.3	9
12	Microscopic Dynamics in an Ionic Liquid Augmented with Organic Solvents. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19354-19361.	3.1	8
13	Addition of Chloroform in a Solvent-in-Salt Electrolyte: Outcomes in the Microscopic Dynamics in Bulk and Confinement. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22366-22375.	3.1	7
14	Beyond Simple Dilution: Superior Conductivities from Cosolvation of Acetonitrile/LiTFSI Concentrated Solution with Acetone. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2788-2796.	3.1	6
15	Investigation of Multilayered Structures of Ionic Liquids on Graphite and Platinum Using Atomic Force Microscopy and Molecular Simulations. <i>Langmuir</i> , 2022, 38, 4036-4047.	3.5	5
16	Controlling the Ion Transport Number in Solvent-in-Salt Solutions. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4572-4583.	2.6	5
17	MoSDeF Cassandra: A complete Python interface for the Cassandra Monte Carlo software. <i>Journal of Computational Chemistry</i> , 2021, 42, 1321-1331.	3.3	4
18	Engineering the Interlayer Spacing by Pre-Intercalation for High Performance Supercapacitor MXene Electrodes in Room Temperature Ionic Liquid (<i>Adv. Funct. Mater.</i> 33/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170246.	14.9	2

#	ARTICLE	IF	CITATIONS
19	Direct Correlation of the Salt-Reduced Diffusivities of Organic Solvents with the Solvent's Mole Fraction. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2845-2850.	4.6	2