

Arun Venkatnathan

List of Publications by Year in descending order

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28
papers

668
citations

840776

11
h-index

552781

26
g-index

29
all docs

29
docs citations

29
times ranked

730
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of Ion Conduction and Dynamics in Tris(<i>N,N</i> -dimethylformamide) Perchloratosodium Solid Electrolytes. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4744-4750.	3.1	3
2	Effect of Concentration and Temperature on the Structure and Ion Transport in Diglyme-Based Sodium-Ion Electrolyte. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2119-2129.	2.6	5
3	Solvate sponge crystals of (DMF) ₃ NaClO ₄ : reversible pressure/temperature controlled juicing in a melt/press-castable sodium-ion conductor. <i>Chemical Science</i> , 2021, 12, 5574-5581.	7.4	3
4	Invoking chemical principles to predict the anions of dihydrooxazole family as prospective carbon capture moieties. <i>Computational and Theoretical Chemistry</i> , 2021, 1206, 113472.	2.5	0
5	Multiscale Modeling Examples: New Polyelectrolyte Nanocomposite Membranes for Perspective Fuel Cells and Flow Batteries. <i>Springer Series in Materials Science</i> , 2021, , 133-177.	0.6	1
6	Charge delocalization effects on Nafion structure and water /proton dynamics in hydrated environments. <i>Fluid Phase Equilibria</i> , 2020, 504, 112340.	2.5	1
7	Effect of Annealing on Structure and Diffusion in Hydrated Nafion Membranes. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5058-5066.	4.4	13
8	Computational investigation of a protic ionic liquid doped poly-benzimidazole fuel cell electrolyte. <i>Journal of Molecular Liquids</i> , 2020, 314, 113686.	4.9	7
9	Experimental and Theoretical Investigation of the Ion Conduction Mechanism of Tris(adiponitrile)perchloratosodium, a Self-Binding, Melt-Castable Crystalline Sodium Electrolyte. <i>Chemistry of Materials</i> , 2019, 31, 8850-8863.	6.7	9
10	Unravelling the structural and dynamical complexity of the equilibrium liquid grain-binding layer in highly conductive organic crystalline electrolytes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4394-4404.	10.3	6
11	Nanostructure and Dynamics of Humidified Nafion/Graphene-Oxide Composites via Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22864-22875.	3.1	16
12	Probing translational and rotational dynamics in hydrophilic/hydrophobic anion based imidazolium ionic liquid-water mixtures. <i>Soft Matter</i> , 2018, 14, 6109-6118.	2.7	8
13	Novel polyelectrolyte membranes for fuel and flow batteries: Insights from simulations. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
14	Site-Specific Interactions in CO ₂ Capture by Lysinate Anion and Role of Water Using Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12647-12656.	3.1	12
15	Quantum Mechanical Investigation of Proton Transport in Imidazolium Methanesulfonate Ionic liquid. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7069-7080.	3.1	7
16	Atomistic simulation study of the hydrated structure and transport dynamics of a novel multi acid side chain polyelectrolyte membrane. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27254-27268.	7.1	24
17	Molecular mechanism of CO ₂ absorption in phosphonium amino acid ionic liquid. <i>RSC Advances</i> , 2016, 6, 55438-55443.	3.6	19
18	Quantum Chemistry Study of Proton Transport in Imidazole Chains. <i>Journal of Physical Chemistry B</i> , 2015, 119, 3213-3222.	2.6	24

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19	Molecular Simulations of Anion and Temperature Dependence on Structure and Dynamics of 1-Hexyl-3-methylimidazolium Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14800-14806.	2.6	27
20	Polymer chain length, phosphoric acid doping and temperature dependence on structure and dynamics of an ABPBI [poly(2,5-benzimidazole)] polymer electrolyte membrane. <i>RSC Advances</i> , 2014, 4, 19746-19755.	3.6	5
21	Interplay of Phase Separation, Tail Aggregation, and Micelle Formation in the Nanostructured Organization of Hydrated Imidazolium Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2014, 118, 8839-8847.	2.6	28
22	Molecular dynamics simulations of side chain pendants of perfluorosulfonic acid polymer electrolyte membranes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 557-569.	10.3	37
23	Parametric dependence on shear viscosity of SPC/E water from equilibrium and non-equilibrium molecular dynamics simulations. <i>Molecular Simulation</i> , 2013, 39, 728-733.	2.0	11
24	A molecular investigation of the nanostructure and dynamics of phosphoric acid blends of hydrated ABPBI [poly(2,5-benzimidazole)] polymer electrolyte membranes. <i>Soft Matter</i> , 2013, 9, 1122-1132.	2.7	9
25	Mechanism of Proton Transport in Ionic-Liquid-Doped Perfluorosulfonic Acid Membranes. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14449-14456.	2.6	23
26	Atomistic simulations of structure and dynamics of hydrated Aciplex polymer electrolyte membrane. <i>Soft Matter</i> , 2012, 8, 10827.	2.7	29
27	Atomistic Simulation of Water Percolation and Proton Hopping in Nafion Fuel Cell Membrane. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13681-13690.	2.6	125
28	Atomistic Simulations of Hydrated Nafion and Temperature Effects on Hydronium Ion Mobility. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7234-7244.	2.6	212