

Naresh C Osti

List of Publications by Year in descending order

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49
papers

1,766
citations

331538

21
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276775

41
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50
docs citations

50
times ranked

2491
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.1	2
2	Strongly Anharmonic Phonons and Their Role in Superionic Diffusion and Ultralow Thermal Conductivity of Cu ₇ PSe ₆ . <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	26
3	Understanding the Impacts of Support-Polymer Interactions on the Dynamics of Poly(ethyleneimine) Confined in Mesoporous SBA-15. <i>Journal of the American Chemical Society</i> , 2022, 144, 11664-11675.	6.6	17
4	Order-disorder in room-temperature ionic liquids probed via methyl quantum tunneling. <i>Structural Dynamics</i> , 2021, 8, 024303.	0.9	3
5	Strong Enhancement of Nanoconfined Water Mobility by a Structure Breaking Salt. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4038-4044.	2.1	7
6	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.	7.8	64
7	A two-dimensional type I superionic conductor. <i>Nature Materials</i> , 2021, 20, 1683-1688.	13.3	15
8	Fast Na diffusion and anharmonic phonon dynamics in superionic Na ₃ PS ₄ . <i>Energy and Environmental Science</i> , 2021, 14, 6554-6563.	15.6	36
9	Interlayer separation in hydrogen titanates enables electrochemical proton intercalation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 412-421.	5.2	28
10	Dynamics of a room temperature ionic liquid under applied pressure. <i>Chemical Physics</i> , 2020, 530, 110628.	0.9	9
11	Chemical structure and curing dynamics of bisphenol S, PEEK TM like, and resveratrol phthalonitrile thermoset resins. <i>Journal of Polymer Science</i> , 2020, 58, 3419-3431.	2.0	7
12	Role of Fast Dynamics in Conductivity of Polymerized Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10539-10545.	1.2	2
13	Probing Molecular Interactions at MXene-Organic Heterointerfaces. <i>Chemistry of Materials</i> , 2020, 32, 7884-7894.	3.2	26
14	Structure and Dynamics of Aqueous Electrolytes Confined in 2D-TiO ₂ /Ti ₃ C ₂ T ₂ MXene Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 58378-58389.	4.0	25
15	Multiscale and Multimodal Characterization of 2D Titanium Carbonitride MXene. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902207.	1.9	35
16	Understanding Functionalization of Titanium Carbide (MXene) with Quinones and Their Pseudocapacitance. <i>ACS Applied Energy Materials</i> , 2020, 3, 4127-4133.	2.5	29
17	Critical Role of Anion-Solvent Interactions for Dynamics of Solvent-in-Salt Solutions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8457-8466.	1.5	32
18	Study of the Segmental Dynamics and Ion Transport of Solid Polymer Electrolytes in the Semi-crystalline State. <i>Frontiers in Chemistry</i> , 2020, 8, 592604.	1.8	8

#	ARTICLE	IF	CITATIONS
19	Microscopic dynamics in room-temperature ionic liquids confined in materials for supercapacitor applications. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1554-1576.	2.5	21
20	Microscopic Dynamics in an Ionic Liquid Augmented with Organic Solvents. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19354-19361.	1.5	8
21	Dynamics of ionic liquids in the presence of polymer-grafted nanoparticles. <i>Nanoscale</i> , 2019, 11, 19832-19841.	2.8	14
22	Confined Interlayer Water Promotes Structural Stability for High-Rate Electrochemical Proton Intercalation in Tungsten Oxide Hydrates. <i>ACS Energy Letters</i> , 2019, 4, 2805-2812.	8.8	88
23	Temperature dependence of nanoscale dynamic processes measured in living millipedes by high resolution inelastic and elastic neutron scattering. <i>Scientific Reports</i> , 2019, 9, 11646.	1.6	5
24	Influences from solvents on charge storage in titanium carbide MXenes. <i>Nature Energy</i> , 2019, 4, 241-248.	19.8	363
25	Probing Li ion dynamics in amorphous $x\text{Li}_2\text{SO}_4 \cdot (1-x)\text{LiPO}_3$ by quasielastic neutron scattering. <i>Solid State Ionics</i> , 2019, 334, 95-98.	1.3	11
26	Study of segmental dynamics and ion transport in polymer-ceramic composite electrolytes by quasi-elastic neutron scattering. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 379-385.	1.7	31
27	Cation Molecular Structure Affects Mobility and Transport of Electrolytes in Porous Carbons. <i>Journal of the Electrochemical Society</i> , 2019, 166, A507-A514.	1.3	12
28	Side chain dynamics in semiconducting polymer MEH-PPV. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47394.	1.3	3
29	Mixed Ionic Liquid Improves Electrolyte Dynamics in Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10476-10481.	1.5	53
30	Ionic liquid structure, dynamics, and electrosorption in carbon electrodes with bimodal pores and heterogeneous surfaces. <i>Carbon</i> , 2018, 129, 104-118.	5.4	36
31	Humidity Exposure Enhances Microscopic Mobility in a Room-Temperature Ionic Liquid in MXene. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27561-27566.	1.5	20
32	Origin of dielectric relaxor behavior in PVDF-based copolymer and terpolymer films. <i>AIP Advances</i> , 2018, 8, .	0.6	15
33	Electrolyte cation length influences electrosorption and dynamics in porous carbon supercapacitors. <i>Electrochimica Acta</i> , 2018, 283, 882-893.	2.6	25
34	Solvent Polarity Governs Ion Interactions and Transport in a Solvated Room-Temperature Ionic Liquid. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 167-171.	2.1	45
35	Multimodality of Structural, Electrical, and Gravimetric Responses of Intercalated MXenes to Water. <i>ACS Nano</i> , 2017, 11, 11118-11126.	7.3	183
36	Ferroelectric to paraelectric phase transition mechanism in poled PVDF-TrFE copolymer films. <i>Physical Review B</i> , 2017, 96, .	1.1	14

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37	Evidence of molecular hydrogen trapped in two-dimensional layered titanium carbide-based MXene. <i>Physical Review Materials</i> , 2017, 1, .	0.9	21
38	Influence of humidity on performance and microscopic dynamics of an ionic liquid in supercapacitor. <i>Physical Review Materials</i> , 2017, 1, .	0.9	15
39	Influence of metal ions intercalation on the vibrational dynamics of water confined between MXene layers. <i>Physical Review Materials</i> , 2017, 1, .	0.9	45
40	Association of a multifunctional ionic block copolymer in a selective solvent. <i>Journal of Chemical Physics</i> , 2016, 145, 184903.	1.2	12
41	Water dynamics in rigid ionomer networks. <i>Journal of Chemical Physics</i> , 2016, 145, 224901.	1.2	16
42	Characteristic features of water dynamics in restricted geometries investigated with quasi-elastic neutron scattering. <i>Chemical Physics</i> , 2016, 465-466, 1-8.	0.9	49
43	Effect of Metal Ion Intercalation on the Structure of MXene and Water Dynamics on its Internal Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8859-8863.	4.0	225
44	Dynamics of Polydots: Soft Luminescent Polymeric Nanoparticles. <i>Macromolecules</i> , 2016, 49, 2399-2407.	2.2	6
45	Conjugated polymers with m-pyridine linkages: synthesis, photophysics, solution structure and film morphology. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8113-8121.	2.7	0
46	Bipyridyl-modified phosphonium polyelectrolytes: synthesis, photophysics, metal ion coordination and layer-by-layer assembly with anionic conjugated polymers. <i>Polymer Chemistry</i> , 2013, 4, 5387.	1.9	14
47	Internal Correlations and Stability of Polydots, Soft Conjugated Polymeric Nanoparticles. <i>ACS Macro Letters</i> , 2013, 2, 700-704.	2.3	13
48	Self-assembly of a semi-fluorinated diblock copolymer in a selective solvent. <i>Soft Matter</i> , 2012, 8, 2176.	1.2	5
49	Luminescent phosphonium polyelectrolyte prepared from a diphosphine chromophore: synthesis, photophysics, and layer-by-layer assembly. <i>Journal of Materials Chemistry</i> , 2010, 20, 7984.	6.7	25