

Robert Horst Meißner

List of Publications by Year in descending order

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29
papers

900
citations

567281

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h-index

477307

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times ranked

1312
citing authors

#	ARTICLE	IF	CITATIONS
1	How water wets and self-hydrophilizes nanopatterns of physisorbed hydrocarbons. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 57-66.	9.4	1
2	Impact of confinement and polarizability on dynamics of ionic liquids. <i>Journal of Chemical Physics</i> , 2022, 156, 064703.	3.0	7
3	Elucidating Curvature-Capacitance Relationships in Carbon-Based Supercapacitors. <i>Physical Review Letters</i> , 2022, 128, 086001.	7.8	14
4	Atomistic Insight into the Hydration States of Layered Double Hydroxides. <i>ACS Omega</i> , 2022, 7, 12412-12423.	3.5	9
5	Modeling Charge Redistribution at Magnetite Interfaces in Empirical Force Fields. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4794-4805.	3.1	13
6	Exploring key ionic interactions for magnesium degradation in simulated body fluid – A data-driven approach. <i>Corrosion Science</i> , 2021, 182, 109272.	6.6	22
7	Mechanical degradation estimation of thermosets by peak shift assessment: General approach using infrared spectroscopy. <i>Polymer</i> , 2021, 221, 123585.	3.8	5
8	A Molecular Simulation Approach to Bond Reorganization in Epoxy Resins: From Curing to Deformation and Fracture. <i>ACS Polymers Au</i> , 2021, 1, 165-174.	4.1	15
9	Osmotic Transport at the Aqueous Graphene and hBN Interfaces: Scaling Laws from a Unified, First-Principles Description. <i>ACS Nano</i> , 2021, 15, 15249-15258.	14.6	21
10	Constant potential simulations on a mesh. <i>Journal of Chemical Physics</i> , 2021, 155, 104104.	3.0	11
11	Weak adhesion detection – Enhancing the analysis of vibroacoustic modulation by machine learning. <i>Composite Structures</i> , 2021, 273, 114233.	5.8	12
12	Exploring structure-property relationships in magnesium dissolution modulators. <i>Npj Materials Degradation</i> , 2021, 5, .	5.8	17
13	Predicting the inhibition efficiencies of magnesium dissolution modulators using sparse machine learning models. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	17
14	In silico screening of modulators of magnesium dissolution. <i>Corrosion Science</i> , 2020, 163, 108245.	6.6	38
15	A first-principles analysis of the charge transfer in magnesium corrosion. <i>Scientific Reports</i> , 2020, 10, 15006.	3.3	37
16	Molecular Simulation of Thermosetting Polymer Hardening: Reactive Events Enabled by Controlled Topology Transfer. <i>Macromolecules</i> , 2020, 53, 9698-9705.	4.8	11
17	Electrical Double Layer Capacitance of Curved Graphite Electrodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5515-5521.	3.1	14
18	ATR-FTIR in Kretschmann configuration integrated with electrochemical cell as in situ interfacial sensitive tool to study corrosion inhibitors for magnesium substrates. <i>Electrochimica Acta</i> , 2020, 345, 136166.	5.2	37

#	ARTICLE	IF	CITATIONS
19	Impact of the Conformational Variability of Oligopeptides on the Computational Prediction of Their CD Spectra. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6694-6704.	2.6	7
20	Data Science Based Mg Corrosion Engineering. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	34
21	Combined Computational and Experimental Study on the Influence of Surface Chemistry of Carbon-Based Electrodes on Electrodeâ€”Electrolyte Interactions in Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2716-2727.	3.1	15
22	i-PI 2.0: A universal force engine for advanced molecular simulations. <i>Computer Physics Communications</i> , 2019, 236, 214-223.	7.5	220
23	Recognizing Local and Global Structural Motifs at the Atomic Scale. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 486-498.	5.3	43
24	Molecular Modeling of Microporous Structures of Carbide-Derived Carbon-Based Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7221-7231.	3.1	16
25	Estimation of the free energy of adsorption of a polypeptide on amorphous SiO ₂ from molecular dynamics simulations and force spectroscopy experiments. <i>Soft Matter</i> , 2015, 11, 6254-6265.	2.7	30
26	Computational Prediction of Circular Dichroism Spectra and Quantification of Helicity Loss upon Peptide Adsorption on Silica. <i>Langmuir</i> , 2014, 30, 3487-3494.	3.5	35
27	Mutual Influence Between Adhesion and Molecular Conformation: Molecular Geometry is a Key Issue in Interphase Formation. <i>Journal of Adhesion</i> , 2013, 89, 77-95.	3.0	12
28	<i>Ab initio</i> derived forceâ€”field parameters for molecular dynamics simulations of deprotonated amorphousâ€”SiO ₂ /water interfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 292-305.	1.5	71
29	Deep water formation, the subpolar gyre, and the meridional overturning circulation in the subpolar North Atlantic. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1819-1832.	1.4	116