

Manuel Smeu

List of Publications by Year in descending order

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46
papers

1,249
citations

361413

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377865

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docs citations

47
times ranked

1845
citing authors

#	ARTICLE	IF	CITATIONS
1	2D Ni _{0.25} Mn _{0.75} O ₂ : A high-performance cathode for multivalent ion batteries. Computational Materials Science, 2022, 202, 110948.	3.0	4
2	Beyond Simple Structure-Function Relationships: The Interplay of Geometry, Electronic Structure, and Molecule/Electrode Coupling in Single-Molecule Junctions. Journal of Physical Chemistry C, 2022, 126, 6653-6661.	3.1	3
3	Electron leakage through heterogeneous LiF on lithium-metal battery anodes. Physical Chemistry Chemical Physics, 2021, 23, 3214-3218.	2.8	22
4	Correlated Energy-Level Alignment Effects Determine Substituent-Tuned Single-Molecule Conductance. ACS Applied Materials & Interfaces, 2021, 13, 4267-4277.	8.0	11
5	Ab Initio Investigation of the Elastic Properties of Ca _x Sn _{1-x} Alloys for Use As Battery Anodes. Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	2.1	5
6	Preventing Electrolyte Decomposition on a Ca Metal Electrode Interface Using an Artificial Solid-Electrolyte Interphase. Advanced Theory and Simulations, 2021, 4, 2100018.	2.8	7
7	Phenalenyls as tunable excellent molecular conductors and switchable spin filters. Physical Chemistry Chemical Physics, 2021, 23, 24106-24110.	2.8	10
8	A Computational Comparison of Ether and Ester Electrolyte Stability on a Ca Metal Anode. Energy Material Advances, 2021, 2021, .	11.0	11
9	First principles investigation into the interwoven nature of voltage and mechanical properties of the Li _{1-x} NMC-811 cathode. Journal of Power Sources, 2021, 516, 230620.	7.8	10
10	Ab initio investigation of V ₂ O ₅ for beyond lithium ion battery cathodes. Journal of Power Sources, 2020, 472, 228096.	7.8	17
11	Reassessing destructive quantum interference in azulene-based devices. Physical Chemistry Chemical Physics, 2020, 22, 3653-3660.	2.8	5
12	Combined Impact of Denticity and Orientation on Molecular-Scale Charge Transport. Journal of Physical Chemistry C, 2020, 124, 9460-9469.	3.1	4
13	Ab initio investigation of the temperature-dependent elastic properties of Bi, Te and Cu. Journal of Physics Condensed Matter, 2020, 32, 485902.	1.8	5
14	TiSe ₂ cathode for beyond Li-ion batteries. Journal of Power Sources, 2019, 436, 226813.	7.8	36
15	Ab initio investigation of the elastic properties of bismuth-based alloys. Physical Review B, 2019, 100, .	3.2	15
16	First principles study of graphene on metals with the SCAN and SCAN+rVV10 functionals. Journal of Chemical Physics, 2019, 150, 154702.	3.0	17
17	Atomistic simulation of the structural and conductance evolution of Au break junctions. Computational Materials Science, 2019, 164, 147-152.	3.0	1
18	Comparative Study of Ethylene Carbonate-Based Electrolyte Decomposition at Li, Ca, and Al Anode Interfaces. ACS Applied Energy Materials, 2019, 2, 1676-1684.	5.1	36

#	ARTICLE	IF	CITATIONS
19	Ab initio investigation into the physisorption of noble gases on graphene. <i>Surface Science</i> , 2019, 682, 38-42.	1.9	12
20	Ba ₄ B ₈ TeO ₁₉ : A UV Nonlinear Optical Material. <i>Inorganic Chemistry</i> , 2018, 57, 4771-4776.	4.0	31
21	Density Functional Theory Modeling of MnO ₂ Polymorphs as Cathodes for Multivalent Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8788-8795.	3.1	70
22	Ab initio study of structural and electronic properties of copper and nickel tungstate. <i>Computational Materials Science</i> , 2018, 143, 301-307.	3.0	9
23	Ethylene Carbonate-Based Electrolyte Decomposition and Solid-Electrolyte Interphase Formation on Ca Metal Anodes. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3295-3300.	4.6	29
24	Spin-Negative Differential Resistance in Zigzag Graphene Nanoribbons with Side-Attached Porphine Molecule. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15911-15921.	3.1	14
25	Tuning the electronic and quantum transport properties of nitrogenated holey graphene nanoribbons. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11856-11866.	5.5	13
26	Hybrid density functional theory modeling of Ca, Zn, and Al ion batteries using the Chevrel phase Mo ₆ S ₈ cathode. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20684-20690.	2.8	41
27	Two-Dimensional \hat{I}^3 -Graphyne Suspended on Si(111): A Hybrid Device. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4605-4611.	3.1	16
28	Theoretical investigation of Chevrel phase materials for cathodes accommodating Ca ²⁺ ions. <i>Journal of Power Sources</i> , 2016, 306, 431-436.	7.8	58
29	Towards graphyne molecular electronics. <i>Nature Communications</i> , 2015, 6, 6321.	12.8	135
30	Single-Molecule Sensing of Environmental pH via an STM Break Junction and NEGF-DFT Approach. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1098-1102.	13.8	82
31	Modeling ion sensing in molecular electronics. <i>Journal of Chemical Physics</i> , 2014, 140, 054709.	3.0	11
32	Hapticity-Dependent Charge Transport through Carbodithioate-Terminated [5,15-Bis(phenylethynyl)porphinato]zinc(II) Complexes in Metal-Molecule-Metal Junctions. <i>Nano Letters</i> , 2014, 14, 5493-5499.	9.1	29
33	Molecular Junctions: Can Pulling Influence Optical Controllability?. <i>Nano Letters</i> , 2014, 14, 4587-4591.	9.1	22
34	Molecular Spintronics: Destructive Quantum Interference Controlled by a Gate. <i>Journal of the American Chemical Society</i> , 2014, 136, 15065-15071.	13.7	65
35	Conductivity of Si(111)-(1 × 1) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj The Role of a Single Atomic Step. <i>Physical Review Letters</i> , 2014, 112, 246802.	7.8	30
36	Effect of Anchoring Groups on Single Molecule Charge Transport through Porphyrins. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14890-14898.	3.1	88

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37	Spin Transport of Polyacetylene Chains Bridging Zigzag Graphene Nanoribbon Electrodes: A Nonequilibrium Treatment of Structural Control and Spin Filtering. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21178-21185.	3.1	16
38	Electronic properties of Si(111)-7 \times 7 and related reconstructions: Density functional theory calculations. <i>Physical Review B</i> , 2012, 85, .	3.2	28
39	Conduction modulation of π -stacked ethylbenzene wires on Si(100) with substituent groups. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	1.4	9
40	Conduction modulation of π -stacked ethylbenzene wires on Si(100) with substituent groups. , 2012, , 37-44.		0
41	Energetic Molecules Encapsulated Inside Carbon Nanotubes and between Graphene Layers: DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10985-10989.	3.1	60
42	Calculations of Electron Transport through Simple π - and σ -Type Radicals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17874-17879.	3.1	36
43	Conduction Pathway of π -Stacked Ethylbenzene Molecular Wires on Si(100). <i>Journal of the American Chemical Society</i> , 2009, 131, 11019-11026.	13.7	34
44	Theoretical investigation of electron transport modulation through benzenedithiol by substituent groups. <i>Journal of Chemical Physics</i> , 2008, 129, 034707.	3.0	20
45	Rearrangement of the 1,1-Diphenylethoxyl Radical Is Not Concerted but Occurs through a Bridged Intermediate. <i>Journal of Organic Chemistry</i> , 2007, 72, 4520-4523.	3.2	18
46	Isomerization of Triphenylmethoxyl and 1,1-Diphenylethoxyl Radicals. Revised Assignment of the Electron-Spin Resonance Spectra of Purported Intermediates Formed during the Ceric Ammonium Nitrate Mediated Photooxidation of Aryl Carbinols. <i>Journal of Organic Chemistry</i> , 2006, 71, 9906-9908.	3.2	23