

Zuoti Xie

List of Publications by Year in descending order

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29
papers

1,223
citations

430754

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477173

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times ranked

1406
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative analysis of weak current rectification in molecular tunnel junctions subject to mechanical deformation reveals two different rectification mechanisms for oligophenylene thiols versus alkane thiols. <i>Nanoscale</i> , 2021, 13, 16755-16768.	2.8	9
2	Quantifying Molecular Structure-Tunneling Conductance Relationships: Oligophenylene Dimethanethiol vs Oligophenylene Dithiol Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4292-4298.	1.5	25
3	Quantifying Image Charge Effects in Molecular Tunnel Junctions Based on Self-Assembled Monolayers of Substituted Oligophenylene Ethynylene Dithiols. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56404-56412.	4.0	6
4	Strain-Work Function Relationship in Single-Crystal Tetracene. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40607-40612.	4.0	7
5	Energy Level Alignment in Molecular Tunnel Junctions by Transport and Spectroscopy: Self-Consistency for the Case of Alkyl Thiols and Dithiols on Ag, Au, and Pt Electrodes. <i>Journal of the American Chemical Society</i> , 2019, 141, 18182-18192.	6.6	68
6	Determination of Energy-Level Alignment in Molecular Tunnel Junctions by Transport and Spectroscopy: Self-Consistency for the Case of Oligophenylene Thiols and Dithiols on Ag, Au, and Pt Electrodes. <i>Journal of the American Chemical Society</i> , 2019, 141, 3670-3681.	6.6	90
7	Gate-Tuned Insulator-Metal Transition in Electrolyte-Gated Transistors Based on Tellurene. <i>Nano Letters</i> , 2019, 19, 4738-4744.	4.5	48
8	Mechanical Deformation Distinguishes Tunneling Pathways in Molecular Junctions. <i>Journal of the American Chemical Society</i> , 2019, 141, 497-504.	6.6	21
9	HOMO Level Pinning in Molecular Junctions: Joint Theoretical and Experimental Evidence. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2394-2403.	2.1	45
10	Why one can expect large rectification in molecular junctions based on alkane monothiols and why rectification is so modest. <i>Chemical Science</i> , 2018, 9, 4456-4467.	3.7	49
11	Work function and temperature dependence of electron tunneling through an N-type perylene diimide molecular junction with isocyanide surface linkers. <i>Nanoscale</i> , 2018, 10, 964-975.	2.8	49
12	Exceptionally Small Statistical Variations in the Transport Properties of Metal-Molecule-Metal Junctions Composed of 80 Oligophenylene Dithiol Molecules. <i>Journal of the American Chemical Society</i> , 2017, 139, 5696-5699.	6.6	45
13	Effect of Heteroatom Substitution on Transport in Alkanedithiol-Based Molecular Tunnel Junctions: Evidence for Universal Behavior. <i>ACS Nano</i> , 2017, 11, 569-578.	7.3	54
14	Theory of magnetoresistance of organic molecular tunnel junctions with nonmagnetic electrodes. <i>Physical Review B</i> , 2017, 95, .	1.1	6
15	Large Magnetoresistance at Room Temperature in Organic Molecular Tunnel Junctions with Nonmagnetic Electrodes. <i>ACS Nano</i> , 2016, 10, 8571-8577.	7.3	20
16	Uncovering a law of corresponding states for electron tunneling in molecular junctions. <i>Nanoscale</i> , 2015, 7, 10465-10471.	2.8	60
17	Experimental and Theoretical Analysis of Nanotransport in Oligophenylene Dithiol Junctions as a Function of Molecular Length and Contact Work Function. <i>ACS Nano</i> , 2015, 9, 8022-8036.	7.3	152
18	Determination of the Electronic Energetics of CdTe Nanoparticle Assemblies on Au Electrodes by Photoemission, Electrochemical, and Photocurrent Studies. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17464-17472.	1.5	27

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19	How Isolated Are the Electronic States of the Core in Core/Shell Nanoparticles?. ACS Nano, 2011, 5, 863-869.	7.3	16
20	Spin Specific Electron Conduction through DNA Oligomers. Nano Letters, 2011, 11, 4652-4655.	4.5	323
21	Negative capacitance in doped bi-layer organic light-emitting devices. Chinese Physics B, 2011, 20, 027306.	0.7	3
22	Magnetic field modulated exciton generation in organic semiconductors: An intermolecular quantum correlated effect. Physical Review B, 2010, 82, .	1.1	20
23	Interfacial reactions at Al/LiF and LiF/Al. Applied Physics Letters, 2009, 94, .	1.5	18
24	Photoemission study of C60-induced barrier reduction for hole injection at N,N'-bis(naphthalene-1-yl)-N,N'-bis(phenyl) benzidine/Al. Journal of Applied Physics, 2009, 105, 106105.	1.1	6
25	Photodegradation of organic light-emitting devices observed in nitrogen-filled environment. Thin Solid Films, 2008, 516, 2171-2174.	0.8	4
26	Mechanism of charge generation in p-type doped layer in the connection unit of tandem-type organic light-emitting devices. Applied Physics Letters, 2008, 93, 083304.	1.5	26
27	Blocking of interfacial diffusion at Ag/Alq3 by LiF. Applied Surface Science, 2007, 253, 3930-3932.	3.1	13
28	Modification of the organic/La0.7Sr0.3MnO3 interface by in situ gas treatment. Applied Surface Science, 2007, 253, 9081-9084.	3.1	9
29	Short-circuiting in fullerene devices studied by in situ electrical measurement in high vacuum and infrared imaging analysis. Current Applied Physics, 2007, 7, 231-235.	1.1	0