

Edmund Leary

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,837
citations

279798

23
h-index

330143

37
g-index

38
all docs

38
docs citations

38
times ranked

1722
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering the Thermopower of C ₆₀ Molecular Junctions. Nano Letters, 2013, 13, 2141-2145.	9.1	156
2	Incorporating single molecules into electrical circuits. The role of the chemical anchoring group. Chemical Society Reviews, 2015, 44, 920-942.	38.1	154
3	The experimental determination of the conductance of single molecules. Physical Chemistry Chemical Physics, 2010, 12, 2801.	2.8	153
4	Impact of Junction Formation Method and Surface Roughness on Single Molecule Conductance. Journal of Physical Chemistry C, 2009, 113, 5823-5833.	3.1	139
5	Single-Molecule Electrochemical Gating in Ionic Liquids. Journal of the American Chemical Society, 2012, 134, 16817-16826.	13.7	118
6	Structure-Property Relationships in Redox-Gated Single Molecule Junctions - A Comparison of Pyrrolo-Tetrathiafulvalene and Viologen Redox Groups. Journal of the American Chemical Society, 2008, 130, 12204-12205.	13.7	108
7	Electrochemical Single-Molecule Transistors with Optimized Gate Coupling. Journal of the American Chemical Society, 2015, 137, 14319-14328.	13.7	94
8	Bias-Driven Conductance Increase with Length in Porphyrin Tapes. Journal of the American Chemical Society, 2018, 140, 12877-12883.	13.7	84
9	Unambiguous <i>i>One</i>-Molecule Conductance Measurements under Ambient Conditions. Nano Letters, 2011, 11, 2236-2241.</i>	9.1	81
10	Influence of Binding Groups on Molecular Junction Formation. Journal of the American Chemical Society, 2011, 133, 14313-14319.	13.7	80
11	Toward Multiple Conductance Pathways with Heterocycle-Based Oligo(phenyleneethynylene) Derivatives. Journal of the American Chemical Society, 2015, 137, 13818-13826.	13.7	64
12	Break-Junction Experiments on Acetyl-Protected Conjugated Dithiols under Different Environmental Conditions. Journal of Physical Chemistry C, 2011, 115, 17973-17978.	3.1	62
13	A Comprehensive Study of Extended Tetrathiafulvalene Cruciform Molecules for Molecular Electronics: Synthesis and Electrical Transport Measurements. Journal of the American Chemical Society, 2014, 136, 16497-16507.	13.7	55
14	Structural versus Electrical Functionalization of Oligo(phenylene ethynylene) Diamine Molecular Junctions. Journal of Physical Chemistry C, 2014, 118, 21655-21662.	3.1	42
15	The Role of Oligomeric Gold-Thiolate Units in Single-Molecule Junctions of Thiol-Anchored Molecules. Journal of Physical Chemistry C, 2018, 122, 3211-3218.	3.1	41
16	Unusual Length Dependence of the Conductance in Cumulene Molecular Wires. Angewandte Chemie - International Edition, 2019, 58, 8378-8382.	13.8	39
17	Detecting Mechanochemical Atropisomerization within an STM Break Junction. Journal of the American Chemical Society, 2018, 140, 710-718.	13.7	38
18	Single-molecule conductance of dibenzopentalenes: antiaromaticity and quantum interference. Chemical Communications, 2021, 57, 745-748.	4.1	32

#	ARTICLE	IF	CITATIONS
19	Chemical control of double barrier tunnelling in $\hat{\pm}$, $\hat{\text{I}}\%$ -dithiaalkane molecular wires. Chemical Communications, 2007, , 3939.	4.1	30
20	A Molecular Platinum Cluster Junction: A Single-Molecule Switch. Journal of the American Chemical Society, 2013, 135, 2052-2055.	13.7	29
21	Single-molecule conductance of a chemically modified, $\hat{\text{I}}\%$ -extended tetrathiafulvalene and its charge-transfer complex with $\text{F}_{4\text{TCNQ}}$. Beilstein Journal of Organic Chemistry, 2015, 11, 1068-1078.	2.2	29
22	Stability of Single- and Few-Molecule Junctions of Conjugated Diamines. Journal of the American Chemical Society, 2013, 135, 5420-5426.	13.7	26
23	Cross-conjugation increases the conductance of <i>meta</i> -connected fluorenones. Nanoscale, 2019, 11, 13720-13724.	5.6	25
24	A molecular wire incorporating a robust hexanuclear platinum cluster. Physical Chemistry Chemical Physics, 2009, 11, 5198.	2.8	24
25	Single-Molecule Conductance of 1,4-Azaborine Derivatives as Models of BN-doped PAHs. Angewandte Chemie - International Edition, 2021, 60, 6609-6616.	13.8	20
26	A Peierls Transition in Long Polymethine Molecular Wires: Evolution of Molecular Geometry and Single-Molecule Conductance. Journal of the American Chemical Society, 2021, 143, 20472-20481.	13.7	19
27	Taming quantum interference in single molecule junctions: induction and resonance are key. Physical Chemistry Chemical Physics, 2020, 22, 5638-5646.	2.8	17
28	A Detailed Experimental and Theoretical Study into the Properties of C_{60} Dumbbell Junctions. Small, 2013, 9, 3812-3822.	10.0	11
29	Effect of Charge-Assisted Hydrogen Bonds on Single-Molecule Electron Transport. Journal of Physical Chemistry C, 2019, 123, 29386-29393.	3.1	11
30	Unusual Length Dependence of the Conductance in Cumulene Molecular Wires. Angewandte Chemie, 2019, 131, 8466-8470.	2.0	11
31	Does a Cyclopropane Ring Enhance the Electronic Communication in Dumbbell-Type C_{60} Dimers?. Journal of Organic Chemistry, 2014, 79, 4871-4877.	3.2	10
32	Single-molecule conductance determinations on $\text{HS}(\text{CH}_2)_4\text{O}(\text{CH}_2)_4\text{SH}$ and $\text{HS}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{SH}$, and comparison with alkanedithiols of the same length. Journal of Physics Condensed Matter, 2012, 24, 164211.	1.8	9
33	Long-lived charged states of single porphyrin-tape junctions under ambient conditions. Nanoscale Horizons, 2021, 6, 49-58.	8.0	8
34	Interference Controls Conductance in Phthalocyanine Molecular Junctions. Journal of Physical Chemistry C, 2021, 125, 15035-15043.	3.1	7
35	Three-state molecular potentiometer based on a non-symmetrically positioned in-backbone linker. Journal of Materials Chemistry C, 2021, 9, 16282-16289.	5.5	6
36	Versatile coordination behaviour of $\text{Ph}_2\text{AsCH}_2\text{AsPh}_2$ with Ru(II). Inorganica Chimica Acta, 2004, 357, 4488-4495.	2.4	3

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37	Single-Molecule Conductance of 1,4-Azaborine Derivatives as Models of BN-Doped PAHs. <i>Angewandte Chemie</i> , 2021, 133, 6683-6690.	2.0	2
38	Environmental Effects on the Single Molecule Conductance of bis(thiahexyl)oligothiophenes. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1154, 1.	0.1	0