Linda A Zotti

List of Publications by Year
in descending order

44 papers	1,719 citations	331538 21 h-index	276775 41 g-index
45 all docs	45 docs citations	45 times ranked	1991 citing authors

#	Article	IF	Citations
1	Heat dissipation in atomic-scale junctions. Nature, 2013, 498, 209-212.	13.7	219
2	Single-Molecule Junctions Based on Nitrile-Terminated Biphenyls: A Promising New Anchoring Group. Journal of the American Chemical Society, 2011, 133, 184-187.	6.6	212
3	Revealing the Role of Anchoring Groups in the Electrical Conduction Through Singleâ€Molecule Junctions. Small, 2010, 6, 1529-1535.	5.2	200
4	Peltier cooling in molecular junctions. Nature Nanotechnology, 2018, 13, 122-127.	15.6	120
5	Heat dissipation and its relation to thermopower in single-molecule junctions. New Journal of Physics, 2014, 16, 015004.	1.2	88
6	Bioengineering a Single-Protein Junction. Journal of the American Chemical Society, 2017, 139, 15337-15346.	6.6	84
7	Toward Multiple Conductance Pathways with Heterocycle-Based Oligo(phenyleneethynylene) Derivatives. Journal of the American Chemical Society, 2015, 137, 13818-13826.	6.6	64
8	Dipole-directed assembly of lines of 1,5-dichloropentane on silicon substrates by displacement of surface charge. Nature Nanotechnology, 2008, 3, 222-228.	15.6	57
9	Theoretical study of the charge transport through C<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>60</mml:mn></mml:msub></mml:math>-based single-molecule junctions. Physical Review B, 2012, 85, .	1.1	51
10	Ab-initio calculations and STM observations on tetrapyridyl and Fe(II)-tetrapyridyl-porphyrin molecules on Ag(111). Surface Science, 2007, 601, 2409-2414.	0.8	46
11	Backbone charge transport in double-stranded DNA. Nature Nanotechnology, 2020, 15, 836-840.	15.6	46
12	Ab initiostudy of the thermopower of biphenyl-based single-molecule junctions. Physical Review B, 2012, 86, .	1.1	43
13	The Role of Oligomeric Goldâ€“Thiolate Units in Single-Molecule Junctions of Thiol-Anchored Molecules. Journal of Physical Chemistry C, 2018, 122, 3211-3218.	1.5	41
14	Single-molecule conductance of dibenzopentalenes: antiaromaticity and quantum interference. Chemical Communications, 2021, 57, 745-748.	2.2	32
15	Poly(phenyleneethynylene) polymers bearing glucose substituents as promising active layers in enantioselective chemiresistors. Sensors and Actuators B: Chemical, 2004, 100, 17-21.	4.0	29
16	A Molecular Platinum Cluster Junction: A Single-Molecule Switch. Journal of the American Chemical Society, 2013, 135, 2052-2055.	6.6	29
17	Single-molecule conductance of a chemically modified, Ï€-extended tetrathiafulvalene and its charge-transfer complex with F₄TCNQ. Beilstein Journal of Organic Chemistry, 2015, 11, 1068-1078.	1.3	29
18	Can One Define the Conductance of Amino Acids?. Biomolecules, 2019, 9, 580.	1.8	29

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19	Resonant transport and electrostatic effects in single-molecule electrical junctions. Physical Review B, 2015, 91, .	1.1	28
20	Electron Transport Through Homopeptides: Are They Really Good Conductors?. ACS Omega, 2018, 3, 3778-3785.	1.6	26
21	A Solidâ€State Protein Junction Serves as a Biasâ€Induced Current Switch. Angewandte Chemie - International Edition, 2019, 58, 11852-11859.	7.2	26
22	Can Electron Transport through a Blue-Copper Azurin Be Coherent? An Ab Initio Study. Journal of Physical Chemistry C, 2021, 125, 1693-1702.	1.5	25
23	Electron scattering in scanning probe microscopy experiments. Chemical Physics Letters, 2006, 420, 177-182.	1.2	23
24	Ab initio electronic structure calculations of entire blue copper azurins. Physical Chemistry Chemical Physics, 2018, 20, 30392-30402.	1.3	19
25	Adsorption of benzene, fluorobenzene and metaâ€diâ€fluorobenzene on Cu(110): A computational study. Journal of Computational Chemistry, 2008, 29, 1589-1595.	1.5	17
26	Taming quantum interference in single molecule junctions: induction and resonance are key. Physical Chemistry Chemical Physics, 2020, 22, 5638-5646.	1.3	17
27	Tuning Structure and Dynamics of Blue Copper Azurin Junctions via Single Amino-Acid Mutations. Biomolecules, 2019, 9, 611.	1.8	16
28	Mechanical Deformation and Electronic Structure of a Blue Copper Azurin in a Solid-State Junction. Biomolecules, 2019, 9, 506.	1.8	16
29	A simple descriptor for energetics at fcc-bcc metal interfaces. Materials and Design, 2018, 142, 158-165.	3.3	15
30	Self-assembly of semifluorinated n-alkanethiols on {111}-oriented Au investigated with scanning tunneling microscopy experiment and theory. Journal of Chemical Physics, 2007, 127, 024702.	1.2	11
31	Doping hepta-alanine with tryptophan: A theoretical study of its effect on the electrical conductance of peptide-based single-molecule junctions. Journal of Chemical Physics, 2019, 150, 174705.	1.2	10
32	Carbon tips as electrodes for single-molecule junctions. Applied Physics Letters, 2011, 99, 123105.	1.5	8
33	Platinum atomic contacts: From tunneling to contact. Physical Review B, 2017, 95, .	1.1	8
34	Comment on â€œChemical versus van der Waals Interaction: The Role of the Heteroatom in the Flat Absorption of Aromatic MoleculesC6H6,C5NH5, andC4N2H4on the Cu(110) Surfaceâ€• Physical Review Letters, 2010, 104, 099703; author reply 099704.	2.9	7
35	Rational design of an unusual 2D-MOF based on Cu(<scp>i</scp>) and 4-hydroxypyrimidine-5-carbonitrile as linker with conductive capabilities: a theoretical approach based on high-pressure XRD. Chemical Communications, 2020, 56, 9473-9476.	2.2	6
36	The Role of Metal Ions in the Electron Transport through Azurin-Based Junctions. Applied Sciences (Switzerland), 2021, 11, 3732.	1.3	6

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37	Three-state molecular potentiometer based on a non-symmetrically positioned in-backbone linker. Journal of Materials Chemistry C, 2021, 9, 16282-16289.	2.7	6
38	Carbon-fiber tips for scanning probe microscopes and molecular electronics experiments. Nanoscale Research Letters, 2012, 7, 254.	3.1	4
39	Electronic transport through single noble gas atoms. Physical Review B, 2011, 84, .	1.1	2
40	Molecular Electronics. Applied Sciences (Switzerland), 2021, 11, 4828.	1.3	2
41	A Solidâ€State Protein Junction Serves as a Biasâ€Induced Current Switch. Angewandte Chemie, 2019, 131, 11978-11985.	1.6	1
42	Constrained DFT for Molecular Junctions. Nanomaterials, 2022, 12, 1234.	1.9	1
43	InnenrÃ¼cktitelbild: A Solidâ€State Protein Junction Serves as a Biasâ€Induced Current Switch (Angew.) Tj ETQq1 1 0.784314 rgBT /Ov	1.6	0
44	Adhesion of thin metallic layers on Au surfaces. Journal of Physics Condensed Matter, 2022, , .	0.7	0