Gabino Rubio-Bollinger

List of Publications by Year
in descending order

65 papers	4,965 citations	109264 35 h-index	110317 64 g-index
65 all docs	65 docs citations	65 times ranked	6671 citing authors

#	Article	IF	Citations
1	Thermoelectric Enhancement in Single Organic Radical Molecules. Nano Letters, 2022, 22, 948-953.	4.5	28
2	Exploring seebeck-coefficient fluctuations in endohedral-fullerene, single-molecule junctions. Nanoscale Horizons, 2022, 7, 616-625.	4.1	11
3	2,7- and 4,9-Dialkynyldihydropyrene Molecular Switches: Syntheses, Properties, and Charge Transport in Single-Molecule Junctions. Journal of the American Chemical Society, 2022, 144, 12698-12714.	6.6	12
4	Long-lived charged states of single porphyrin-tape junctions under ambient conditions. Nanoscale Horizons, 2021, 6, 49-58.	4.1	8
5	Molecular Structureâ€“(Thermo)electric Property Relationships in Single-Molecule Junctions and Comparisons with Single- and Multiple-Parameter Models. Journal of the American Chemical Society, 2021, 143, 3817-3829.	6.6	35
6	Interference Controls Conductance in Phthalocyanine Molecular Junctions. Journal of Physical Chemistry C, 2021, 125, 15035-15043.	1.5	7
7	Simplified feedback control system for scanning tunneling microscopy. Review of Scientific Instruments, 2021, 92, 103705.	0.6	5
8	Connectivity dependent thermopower of bridged biphenyl molecules in single-molecule junctions. Nanoscale, 2020, 12, 14682-14688.	2.8	13
9	Cross-conjugation increases the conductance of meta-connected fluorenones. Nanoscale, 2019, 11, 13720-13724.	2.8	25
10	Can One Define the Conductance of Amino Acids?. Biomolecules, 2019, 9, 580.	1.8	29
11	Effect of Charge-Assisted Hydrogen Bonds on Single-Molecule Electron Transport. Journal of Physical Chemistry C, 2019, 123, 29386-29393.	1.5	11
12	Fast Yet Quantumâ€Efficient Fewâ€Layer Vertical MoS₂ Photodetectors. Advanced Electronic Materials, 2019, 5, 1900141.	2.6	16
13	Unusual Length Dependence of the Conductance in Cumulene Molecular Wires. Angewandte Chemie, 2019, 131, 8466-8470.	1.6	11
14	Unusual Length Dependence of the Conductance in Cumulene Molecular Wires. Angewandte Chemie - International Edition, 2019, 58, 8378-8382.	7.2	39
15	Strong modulation of optical properties in rippled 2D GaSe via strain engineering. Nanotechnology, 2019, 30, 24LT01.	1.3	21
16	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
17	Detecting Mechanochemical Atropisomerization within an STM Break Junction. Journal of the American Chemical Society, 2018, 140, 710-718.	6.6	38
18	Strain-induced band gap engineering in layered TiS3. Nano Research, 2018, 11, 225-232.	5.8	36

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19	Thermoelectric Properties of 2,7-Dipyridylfluorene Derivatives in Single-Molecule Junctions. Journal of Physical Chemistry C, 2018, 122, 27198-27204.	1.5	33
20	Bias-Driven Conductance Increase with Length in Porphyrin Tapes. Journal of the American Chemical Society, 2018, 140, 12877-12883.	6.6	84
21	Strain engineering of Schottky barriers in single- and few-layer MoS ₂ vertical devices. 2D Materials, 2017, 4, 021006.	2.0	54
22	High Current Density Electrical Breakdown of TiS₃ Nanoribbonâ€Based Fieldâ€Effect Transistors. Advanced Functional Materials, 2017, 27, 1605647.	7.8	52
23	Optical contrast and refractive index of natural van der Waals heterostructure nanosheets of franckeite. Beilstein Journal of Nanotechnology, 2017, 8, 2357-2362.	1.5	27
24	Centimeter-Scale Synthesis of Ultrathin Layered MoO₃ by van der Waals Epitaxy. Chemistry of Materials, 2016, 28, 4042-4051.	3.2	100
25	Strong Modulation of Optical Properties in Black Phosphorus through Strain-Engineered Rippling. Nano Letters, 2016, 16, 2931-2937.	4.5	199
26	Strong Quantum Confinement Effect in the Optical Properties of Ultrathin Î±â€In₂Se₃. Advanced Optical Materials, 2016, 4, 1939-1943.	3.6	89
27	Highly responsive UV-photodetectors based on single electrospun TiO₂ nanofibres. Journal of Materials Chemistry C, 2016, 4, 10707-10714.	2.7	41
28	Thermopower measurements in molecular junctions. Chemical Society Reviews, 2016, 45, 4285-4306.	18.7	126
29	Molecular design and control of fullerene-based bi-thermoelectric materials. Nature Materials, 2016, 15, 289-293.	13.3	132
30	Spatially resolved optical absorption spectroscopy of single- and few-layer MoS₂by hyperspectral imaging. Nanotechnology, 2016, 27, 115705.	1.3	145
31	Electronic Bandgap and Exciton Binding Energy of Layered Semiconductor TiS₃. Advanced Electronic Materials, 2015, 1, 1500126.	2.6	59
32	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
33	Enhanced Visibility of MoS2, MoSe2, WSe2 and Black-Phosphorus: Making Optical Identification of 2D Semiconductors Easier. Electronics (Switzerland), 2015, 4, 847-856.	1.8	44
34	Quantum Thermopower of Metallic Atomic-Size Contacts at Room Temperature. Nano Letters, 2015, 15, 1006-1011.	4.5	39
35	Current rectification in a single molecule diode: the role of electrode coupling. Nanotechnology, 2015, 26, 291001.	1.3	51
36	Toward Multiple Conductance Pathways with Heterocycle-Based Oligo(phenyleneethynylene) Derivatives. Journal of the American Chemical Society, 2015, 137, 13818-13826.	6.6	64

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37	Incorporating single molecules into electrical circuits. The role of the chemical anchoring group. Chemical Society Reviews, 2015, 44, 920-942.	18.7	154
38	Mechanical Properties and Electric Field Screening of Atomically Thin MoS2 Crystals. Lecture Notes in Nanoscale Science and Technology, 2014, , 129-153.	0.4	0
39	Does a Cyclopropane Ring Enhance the Electronic Communication in Dumbbell-Type C60 Dimers?. Journal of Organic Chemistry, 2014, 79, 4871-4877.	1.7	10
40	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.	6.6	55
41	Structural versus Electrical Functionalization of Oligo(phenylene ethynylene) Diamine Molecular Junctions. Journal of Physical Chemistry C, 2014, 118, 21655-21662.	1.5	42
42	Periodic spatial variation of the electron-phonon interaction in epitaxial graphene on Ru(0001). Applied Physics Letters, 2013, 102, .	1.5	8
43	Stability of Single- and Few-Molecule Junctions of Conjugated Diamines. Journal of the American Chemical Society, 2013, 135, 5420-5426.	6.6	26
44	Fast and reliable identification of atomically thin layers of TaSe2 crystals. Nano Research, 2013, 6, 191-199.	5.8	62
45	Engineering the Thermopower of C₆₀ Molecular Junctions. Nano Letters, 2013, 13, 2141-2145.	4.5	156
46	A Detailed Experimental and Theoretical Study into the Properties of C₆₀ Dumbbell Junctions. Small, 2013, 9, 3812-3822.	5.2	11
47	Electricâ€Field Screening in Atomically Thin Layers of MoS₂: the Role of Interlayer Coupling. Advanced Materials, 2013, 25, 899-903.	11.1	143
48	Elastic Properties of Freely Suspended MoS₂ Nanosheets. Advanced Materials, 2012, 24, 772-775.	11.1	905
49	Highly reproducible low temperature scanning tunneling microscopy and spectroscopy with in situ prepared tips. Ultramicroscopy, 2012, 122, 1-5.	0.8	13
50	Mechanical properties of freely suspended semiconducting graphene-like layers based on MoS2. Nanoscale Research Letters, 2012, 7, 233.	3.1	134
51	Carbon-fiber tips for scanning probe microscopes and molecular electronics experiments. Nanoscale Research Letters, 2012, 7, 254.	3.1	4
52	Calibration of Piezoelectric Positioning Actuators Using a Reference Voltage-to-Displacement Transducer Based on Quartz Tuning Forks. Microscopy and Microanalysis, 2012, 18, 353-358.	0.2	7
53	Mechanical properties of freely suspended atomically thin dielectric layers of mica. Nano Research, 2012, 5, 550-557.	5.8	87
54	Spatially resolved electronic inhomogeneities of graphene due to subsurface charges. Carbon, 2012, 50, 932-938.	5.4	27

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55	Influence of Binding Groups on Molecular Junction Formation. Journal of the American Chemical Society, 2011, 133, 14313-14319.	6.6	80
56	Break-Junction Experiments on Acetyl-Protected Conjugated Dithiols under Different Environmental Conditions. Journal of Physical Chemistry C, 2011, 115, 17973-17978.	1.5	62
57	Carbon tips as electrodes for single-molecule junctions. Applied Physics Letters, 2011, 99, 123105.	1.5	8
58	Unambiguous One-Molecule Conductance Measurements under Ambient Conditions. Nano Letters, 2011, 11, 2236-2241.	4.5	81
59	Atomically Thin Mica Flakes and Their Application as Ultrathin Insulating Substrates for Graphene. Small, 2011, 7, 2491-2497.	5.2	81
60	Force-gradient-induced mechanical dissipation of quartz tuning fork force sensors used in atomic force microscopy. Ultramicroscopy, 2011, 111, 186-190.	0.8	30
61	Ultralong Natural Graphene Nanoribbons and Their Electrical Conductivity. Small, 2009, 5, 924-927.	5.2	33
62	Study of Electronâ^'Phonon Interactions in a Single Molecule Covalently Connected to Two Electrodes. Nano Letters, 2008, 8, 1673-1678.	4.5	94
63	Onset of Energy Dissipation in Ballistic Atomic Wires. Physical Review Letters, 2002, 88, 216803.	2.9	239
64	Electron transport and phonons in atomic wires. Chemical Physics, 2002, 281, 231-234.	0.9	62
65	The signature of chemical valence in the electrical conduction through a single-atom contact. Nature, 1998, 394, 154-157.	13.7	597