Mickael L Perrin

List of Publications by Year
in descending order

32 papers	1,666 citations	361296 20 h-index	414303 32 g-index
33 all docs	33 docs citations	33 times ranked	2147 citing authors

#	Article	IF	Citations
1	Spatially mapping thermal transport in graphene by an opto-thermal method. Npj 2D Materials and Applications, 2022, 6, .	3.9	6
2	High-speed identification of suspended carbon nanotubes using Raman spectroscopy and deep learning. Microsystems and Nanoengineering, 2022, 8, 19.	3.4	7
3	Growth Optimization and Device Integration of Narrowâ€Bandgap Graphene Nanoribbons. Small, 2022, 18, .	5.2	17
4	Benchmark and application of unsupervised classification approaches for univariate data. Communications Physics, 2021, 4, .	2.0	19
5	Optimized graphene electrodes for contacting graphene nanoribbons. Carbon, 2021, 184, 331-339.	5.4	30
6	Single-molecule functionality in electronic components based on orbital resonances. Physical Chemistry Chemical Physics, 2020, 22, 12849-12866.	1.3	17
7	Controlled Quantum Dot Formation in Atomically Engineered Graphene Nanoribbon Field-Effect Transistors. ACS Nano, 2020, 14, 5754-5762.	7.3	46
8	Massive Dirac Fermion Behavior in a Low Bandgap Graphene Nanoribbon Near a Topological Phase Boundary. Advanced Materials, 2020, 32, e1906054.	11.1	44
9	Optimized Substrates and Measurement Approaches for Raman Spectroscopy of Graphene Nanoribbons. Physica Status Solidi (B): Basic Research, 2019, 256, 1900343.	0.7	26
10	A Universal Length-Dependent Vibrational Mode in Graphene Nanoribbons. ACS Nano, 2019, 13, 13083-13091.	7.3	36
11	A reference-free clustering method for the analysis of molecular break-junction measurements. Applied Physics Letters, 2019, 114, .	1.5	57
12	In-situ formation of one-dimensional coordination polymers in molecular junctions. Nature Communications, 2019, 10, 262.	5.8	30
13	Conductance Switching in Expanded Porphyrins through Aromaticity and Topology Changes. Journal of the American Chemical Society, 2018, 140, 1313-1326.	6.6	56
14	Mechanical Tuning of Throughâ€Molecule Conductance in a Conjugated Calix[4]pyrrole. ChemistrySelect, 2018, 3, 6473-6478.	0.7	18
15	Large Conductance Variations in a Mechanosensitive Single-Molecule Junction. Nano Letters, 2018, 18, 5981-5988.	4.5	69
16	Design of an efficient coherent multi-site single-molecule rectifier. Physical Chemistry Chemical Physics, 2017, 19, 29187-29194.	1.3	14
17	Charge transport through conjugated azomethine-based single molecules for optoelectronic applications. Organic Electronics, 2016, 34, 38-41.	1.4	28
18	A gate-tunable single-molecule diode. Nanoscale, 2016, 8, 8919-8923.	2.8	76

#	Article	IF	Citations
19	Multiscale Approach to the Study of the Electronic Properties of Two Thiophene Curcuminoid Molecules. Chemistry - A European Journal, 2016, 22, 12808-12818.	1.7	18
20	Câ€“Au Covalently Bonded Molecular Junctions Using Nonprotected Alkynyl Anchoring Groups. Journal of the American Chemical Society, 2016, 138, 8465-8469.	6.6	42
21	Synthesis of 1,2-biphenylethane based single-molecule diodes. Organic and Biomolecular Chemistry, 2016, 14, 2439-2443.	1.5	11
22	Image effects in transport at metal-molecule interfaces. Journal of Chemical Physics, 2015, 143, 174106.	1.2	15
23	Electrical properties and mechanical stability of anchoring groups for single-molecule electronics. Beilstein Journal of Nanotechnology, 2015, 6, 1558-1567.	1.5	69
24	Probing the local environment of a single OPE3 molecule using inelastic tunneling electron spectroscopy. Beilstein Journal of Nanotechnology, 2015, 6, 2477-2484.	1.5	12
25	Single-Molecule Resonant Tunneling Diode. Journal of Physical Chemistry C, 2015, 119, 5697-5702.	1.5	46
26	Single-molecule transistors. Chemical Society Reviews, 2015, 44, 902-919.	18.7	282
27	Large negative differential conductance in single-molecule break junctions. Nature Nanotechnology, 2014, 9, 830-834.	15.6	170
28	Large tunable image-charge effects in single-molecule junctions. Nature Nanotechnology, 2013, 8, 282-287.	15.6	258
29	Statistical analysis of singleâ€molecule breaking traces. Physica Status Solidi (B): Basic Research, 2013, 250, 2431-2436.	0.7	56
30	Current-induced nanogap formation and graphitization in boron-doped diamond films. Applied Physics Letters, 2012, 101, 193106.	1.5	4
31	Charge transport in a zincâ€“porphyrin single-molecule junction. Beilstein Journal of Nanotechnology, 2011, 2, 714-719.	1.5	31
32	Influence of the Chemical Structure on the Stability and Conductance of Porphyrin Singleâ€Molecule Junctions. Angewandte Chemie - International Edition, 2011, 50, 11223-11226.	7.2	56