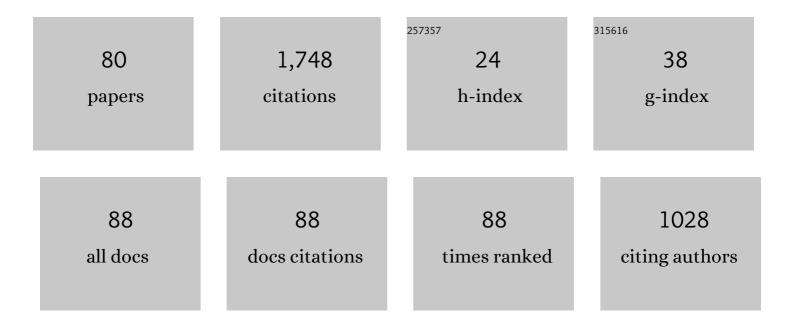
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Experimental and Theoretical Analysis of Nanotransport in Oligophenylene Dithiol Junctions as a Function of Molecular Length and Contact Work Function. ACS Nano, 2015, 9, 8022-8036.	7.3	152
2	Ambipolar transition voltage spectroscopy: Analytical results and experimental agreement. Physical Review B, 2012, 85, .	1.1	132
3	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. Journal of the American Chemical Society, 2019, 141, 3670-3681.	6.6	90
4	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. Journal of the American Chemical Society, 2019, 141, 18182-18192.	6.6	68
5	Uncovering a law of corresponding states for electron tunneling in molecular junctions. Nanoscale, 2015, 7, 10465-10471.	2.8	60
6	Effect of Heteroatom Substitution on Transport in Alkanedithiol-Based Molecular Tunnel Junctions: Evidence for Universal Behavior. ACS Nano, 2017, 11, 569-578.	7.3	54
7	Interpretation of Stochastic Events in Single-Molecule Measurements of Conductance and Transition Voltage Spectroscopy. Journal of the American Chemical Society, 2012, 134, 7958-7962.	6.6	52
8	Why one can expect large rectification in molecular junctions based on alkane monothiols and why rectification is so modest. Chemical Science, 2018, 9, 4456-4467.	3.7	49
9	Work function and temperature dependence of electron tunneling through an N-type perylene diimide molecular junction with isocyanide surface linkers. Nanoscale, 2018, 10, 964-975.	2.8	49
10	Transition voltage spectroscopy reveals significant solvent effects on molecular transport and settles an important issue in bipyridine-based junctions. Nanoscale, 2013, 5, 9222.	2.8	47
11	A quantum chemical study from a molecular transport perspective: ionization and electron attachment energies for species often used to fabricate single-molecule junctions. Faraday Discussions, 2014, 174, 37-56.	1.6	46
12	Exceptionally Small Statistical Variations in the Transport Properties of Metal–Molecule–Metal Junctions Composed of 80 Oligophenylene Dithiol Molecules. Journal of the American Chemical Society, 2017, 139, 5696-5699.	6.6	45
13	Multi-state vibronic interactions in the fluorobenzene radical cation: The importance of quadratic coupling terms. Chemical Physics, 2007, 338, 207-219.	0.9	43
14	Effects of stochastic fluctuations at molecule–electrode contacts in transition voltage spectroscopy. Chemical Physics, 2012, 400, 65-71.	0.9	41
15	Revealing molecular orbital gating by transition voltage spectroscopy. Chemical Physics, 2010, 377, 15-20.	0.9	39
16	Important Insight into Electron Transfer in Single-Molecule Junctions Based on Redox Metalloproteins from Transition Voltage Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 25798-25804.	1.5	37
17	Important issues facing model-based approaches to tunneling transport in molecular junctions. Physical Chemistry Chemical Physics, 2015, 17, 20217-20230.	1.3	37
18	Extending the Newns-Anderson model to allow nanotransport studies through molecules with floppy degrees of freedom. Europhysics Letters, 2012, 99, 47002.	0.7	35

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19	(4,4′)-Bipyridinein vacuo and in solvents: a quantum chemical study of a prototypical floppy molecule from a molecular transport perspective. Physical Chemistry Chemical Physics, 2013, 15, 1918-1928.	1.3	35
20	Multistate multimode vibronic dynamics: Entanglement of electronic and vibrational degrees of freedom in the benzene radical cation. Journal of Chemical Physics, 2006, 124, 064101.	1.2	32
21	Multi-mode vibronic interactions in the five lowest electronic states of the fluorobenzene radical cation. Chemical Physics, 2006, 329, 65-75.	0.9	31
22	Single-Molecule Junctions Based on Bipyridine: Impact of an Unusual Reorganization on Charge Transport. Journal of Physical Chemistry C, 2014, 118, 8676-8684.	1.5	29
23	Sources of negative differential resistance in electric nanotransport. Physical Review B, 2010, 81, .	1.1	25
24	Transition voltage spectroscopy in vacuum break junction: Possible role of surface states. Europhysics Letters, 2012, 98, 17010.	0.7	24
25	Demonstrating why DFT-calculations for molecular transport in solvents need scissor corrections. Electrochemistry Communications, 2013, 36, 19-21.	2.3	23
26	Protocol for disentangling the thermally activated contribution to the tunneling-assisted charge transport. Analytical results and experimental relevance. Physical Chemistry Chemical Physics, 2017, 19, 11759-11770.	1.3	22
27	Mechanical Deformation Distinguishes Tunneling Pathways in Molecular Junctions. Journal of the American Chemical Society, 2019, 141, 497-504.	6.6	21
28	Alternation of Singlet and Triplet States in Carbonâ€Based Chain Molecules and Its Astrochemical Implications: Results of an Extensive Theoretical Study. Advanced Theory and Simulations, 2019, 2, 1900084.	1.3	19
29	Counterintuitive issues in the charge transport through molecular junctions. Physical Chemistry Chemical Physics, 2015, 17, 31260-31269.	1.3	18
30	Long Carbon-Based Chains of Interstellar Medium Can Have a Triplet Ground State. Why Is This Important for Astrochemistry?. ACS Earth and Space Chemistry, 2019, 3, 863-872.	1.2	18
31	Transition voltage spectroscopy in vacuum break junction: The standard tunneling barrier model and beyond. Physica Status Solidi (B): Basic Research, 2012, 249, 1791-1804.	0.7	17
32	Finite-size effects and quantum phonon fluctuations in the optical absorption edgeof dimerized chains. Physical Review B, 1997, 55, 1481-1485.	1.1	16
33	Jahn-Teller and related conical intersections in the benzene radical cation and the monofluoro derivate. Journal of Molecular Structure, 2007, 838, 94-99.	1.8	14
34	Quantifying the relative molecular orbital alignment for molecular junctions with similar chemical linkage to electrodes. Nanotechnology, 2014, 25, 455202.	1.3	14
35	Orbital Picture of Ionization and Its Breakdown in Nanoarrays of Quantum Dots. Physical Review Letters, 2002, 89, 133003.	2.9	13
36	Electrochemical setup – a unique chance to simultaneously control orbital energies and vibrational properties of single-molecule junctions with unprecedented efficiency. Physical Chemistry Chemical Physics, 2014, 16, 25942-25949.	1.3	13

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37	An important impact of the molecule–electrode coupling asymmetry on the efficiency of bias-driven redox processes in molecular junctions. Physical Chemistry Chemical Physics, 2015, 17, 15756-15763.	1.3	13
38	Floppy molecules as candidates for achieving optoelectronic molecular devices without skeletal rearrangement or bond breaking. Physical Chemistry Chemical Physics, 2017, 19, 30842-30851.	1.3	13
39	Quasiregular impurity distribution driven by a charge-density wave. Physical Review B, 1993, 48, 8619-8628.	1.1	12
40	A surprising way to control the charge transport in molecular electronics: the subtle impact of the coverage of self-assembled monolayers of floppy molecules adsorbed on metallic electrodes. Faraday Discussions, 2017, 204, 35-52.	1.6	12
41	Why asymmetric molecular coupling to electrodes cannot be at work in real molecular rectifiers. Physical Review B, 2021, 103, .	1.1	12
42	Evidence on single-molecule transport in electrostatically-gated molecular transistors. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1472-1476.	0.9	11
43	A <i>sui generis</i> electrode-driven spatial confinement effect responsible for strong twisting enhancement of floppy molecules in closely packed self-assembled monolayers. Physical Chemistry Chemical Physics, 2018, 20, 23492-23499.	1.3	11
44	Individual versus collective pinning in charge-density-wave systems with impurties. Physical Review B, 1995, 51, 1495-1506.	1.1	9
45	How small can a Peierls dimerized chain be?. Solid State Communications, 1998, 106, 733-737.	0.9	9
46	Quantitative analysis of weak current rectification in molecular tunnel junctions subject to mechanical deformation reveals two different rectification mechanisms for oligophenylene thiols <i>versus</i> alkane thiols. Nanoscale, 2021, 13, 16755-16768.	2.8	9
47	Quantum Phonon Fluctuations in Mesoscopic Dimerized Systems. Journal of the Physical Society of Japan, 1999, 68, 1954-1962.	0.7	8
48	Transition voltage spectroscopy: Artefacts of the Simmons approach. Journal of Physics and Chemistry of Solids, 2012, 73, 1151-1153.	1.9	8
49	Invariance of molecular charge transport upon changes of extended molecule size and several related issues. Beilstein Journal of Nanotechnology, 2016, 7, 418-431.	1.5	8
50	Fractional molecular charge studied via molecular vibrational properties. Specific aspects in Jahn–Teller active molecular species. RSC Advances, 2016, 6, 93715-93721.	1.7	8
51	Profiling C4N radicals of astrophysical interest. Monthly Notices of the Royal Astronomical Society, 2020, 493, 2506-2510.	1.6	8
52	Extensive Quantum Chemistry Study of Neutral and Charged C ₄ N Chains: An Attempt To Aid Astronomical Observations. ACS Earth and Space Chemistry, 2020, 4, 434-448.	1.2	8
53	Comprehensive Quantum Chemical Characterization of the Astrochemically Relevant HC _{<i>n</i>} H Chain Family: An Attempt to Aid Astronomical Observations. Advanced Theory and Simulations, 2022, 5, .	1.3	8
54	Coexistence of short- and large-scale phase variations in a charge-density wave weakly coupled to impurities. Physical Review B, 1995, 52, 11845-11852.	1.1	7

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55	Structural and magnetic transitions in ensembles of mesoscopic Peierls rings in a magnetic flux. Physical Review B, 1999, 60, 6646-6654.	1.1	7
56	Tuning the conformation of floppy molecules by charge transfer. RSC Advances, 2016, 6, 111903-111907.	1.7	7
57	A novel route to get functionality in nanoelectronics: Controlling the charge transport by the subtle impact of the coverage of self-assembled monolayers on the conformation of floppy molecules adsorbed on metallic electrodes. Applied Surface Science, 2019, 472, 16-21.	3.1	7
58	Profiling astrophysically relevant MgC4H chains. An attempt to aid astronomical observations. Monthly Notices of the Royal Astronomical Society, 2020, 498, 4316-4326.	1.6	7
59	Suppression of Groups Intermingling as an Appealing Option for Flattening and Delaying the Epidemiological Curve While Allowing Economic and Social Life at a Bearable Level during the COVIDâ€19 Pandemic. Advanced Theory and Simulations, 2020, 3, 2000132.	1.3	7
60	HCnHâ^' Anion Chains with n ≤ Are Nonlinear and Their Permanent Dipole Makes Them Potential Candidates for Astronomical Observation. Molecules, 2022, 27, 3100.	1.7	7
61	Concurrent conductance and transition voltage spectroscopy study of scanning tunneling microscopy vacuum junctions. Does it unravel new physics?. RSC Advances, 2014, 4, 33257.	1.7	6
62	Important issues related to the law of corresponding states for the charge transport in molecular junctions with graphene electrodes. Organic Electronics, 2017, 49, 19-23.	1.4	6
63	Vibrational properties of fractionally charged molecules and their relevance for molecular electronics and electrochemistry. Chemical Physics, 2017, 482, 311-318.	0.9	6
64	Impact of molecular conformation on transport and transport-related properties at the nanoscale. Applied Surface Science, 2019, 487, 593-600.	3.1	6
65	Evidence That Molecules in Molecular Junctions May Not Be Subject to the Entire External Perturbation Applied to Electrodes. Langmuir, 2020, 36, 1329-1337.	1.6	5
66	Molecular electronics: general discussion. Faraday Discussions, 2014, 174, 125-151.	1.6	4
67	Vibrational Frequencies of Fractionally Charged Molecular Species: Benchmarking DFT Results against ab Initio Calculations. Journal of Physical Chemistry A, 2017, 121, 2282-2287.	1.1	4
68	Are Asymmetric SAMâ€Induced Work Function Modifications Relevant for Real Molecular Rectifiers?. Advanced Theory and Simulations, 2022, 5, .	1.3	4
69	On the effect of impurities in the one-dimensional electron-phonon system. Physica Scripta, 1989, 40, 311-314.	1.2	3
70	Specific issues related to the law of corresponding states for the charge transport in molecular junctions based on graphene electrodes. Applied Surface Science, 2019, 474, 256-261.	3.1	3
71	Exact Analytic Formula for Conductance Predicting a Tunable Sommerfeld–Arrhenius Thermal Transition within a Singleâ€Step Tunneling Mechanism in Molecular Junctions Subject to Mechanical Stretching. Advanced Theory and Simulations, 0, , 2200158.	1.3	3
72	Organic photovoltaics and energy: general discussion. Faraday Discussions, 2014, 174, 341-355.	1.6	2

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73	Important impact of the experimental platform on the efficient control of electronic and vibrational properties of molecular junctions. International Journal of Nanotechnology, 2016, 13, 685.	0.1	2
74	Supramolecular effects in self-assembled monolayers: general discussion. Faraday Discussions, 2017, 204, 123-158.	1.6	2
75	Supramolecular systems at liquid–solid interfaces: general discussion. Faraday Discussions, 2017, 204, 271-295.	1.6	2
76	Characterization of assembled quantum dots and singleâ€electron transistors by photoemission and photoabsorption. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2671-2674.	0.8	1
77	What Can We Learn from the Time Evolution of COVIDâ€19 Epidemic in Slovenia?. Advanced Theory and Simulations, 2021, 4, 2000225.	1.3	1
78	Self-assembled monolayers of oligophenylenes stiffer than steel and silicon, possibly even stiffer than Si3N4. Applied Surface Science Advances, 2021, 5, 100094.	2.9	1
79	Probing properties of molecule-based interface systems: general discussion and Discussion of the Concluding Remarks. Faraday Discussions, 2017, 204, 503-530.	1.6	0
80	Preparing macromolecular systems on surfaces: general discussion. Faraday Discussions, 2017, 204, 395-418.	1.6	0