Colin J Lambert

List of Publications by Year
in descending order

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391 papers	15,268 citations	26567 56 h-index	27345 106 g-index
400 all docs	400 docs citations	400 times ranked	9890 citing authors

#	Article	IF	Citations
1	Towards molecular spintronics. Nature Materials, 2005, 4, 335-339.	13.3	1,204
2	Spin and molecular electronics in atomically generated orbital landscapes. Physical Review B, 2006, 73, .	1.1	623
3	Single Molecular Conductance of Tolanes: Experimental and Theoretical Study on the Junction Evolution Dependent on the Anchoring Group. Journal of the American Chemical Society, 2012, 134, 2292-2304.	6.6	381
4	Basic concepts of quantum interference and electron transport in single-molecule electronics. Chemical Society Reviews, 2015, 44, 875-888.	18.7	350
5	Long-range electron tunnelling in oligo-porphyrin molecular wires. Nature Nanotechnology, 2011, 6, 517-523.	15.6	312
6	Precision control of single-molecule electrical junctions. Nature Materials, 2006, 5, 995-1002.	13.3	294
7	General Greenâ€™s-function formalism for transport calculations withspdHamiltonians and giant magnetoresistance in Co- and Ni-based magnetic multilayers. Physical Review B, 1999, 59, 11936-11948.	1.1	292
8	Correlations between Molecular Structure and Single-Junction Conductance: A Case Study with Oligo(phenylene-ethynylene)-Type Wires. Journal of the American Chemical Society, 2012, 134, 5262-5275.	6.6	279
9	Single-Molecule Conductance of Functionalized Oligoynes: Length Dependence and Junction Evolution. Journal of the American Chemical Society, 2013, 135, 12228-12240.	6.6	277
10	GOLLUM: a next-generation simulation tool for electron, thermal and spin transport. New Journal of Physics, 2014, 16, 093029.	1.2	269
11	Giant thermopower and figure of merit in single-molecule devices. Physical Review B, 2009, 79, .	1.1	257
12	A strategy to increase the donor pool: Use of cadaver lungs for transplantation. Annals of Thoracic Surgery, 1991, 52, 1113-1121.	0.7	232
13	Magnetic edge states and coherent manipulation of graphene nanoribbons. Nature, 2018, 557, 691-695.	13.7	232
14	Oligoyne Single Molecule Wires. Journal of the American Chemical Society, 2009, 131, 15647-15654.	6.6	206
15	Anti-resonance features of destructive quantum interference in single-molecule thiophene junctions achieved by electrochemical gating. Nature Materials, 2019, 18, 364-369.	13.3	198
16	Phase-coherent transport in hybrid superconducting nanostructures. Journal of Physics Condensed Matter, 1998, 10, 901-941.	0.7	179
17	Fractional Quantum Conductance in Carbon Nanotubes. Physical Review Letters, 2000, 84, 1974-1977.	2.9	166
18	A quantum circuit rule for interference effects in single-molecule electrical junctions. Nature Communications, 2015, 6, 6389.	5.8	164

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19	An MCBJ case study: The influence of Ï€-conjugation on the single-molecule conductance at a solid/liquid interface. Beilstein Journal of Nanotechnology, 2011, 2, 699-713.	1.5	157
20	Engineering the Thermopower of C₆₀ Molecular Junctions. Nano Letters, 2013, 13, 2141-2145.	4.5	156
21	Generalized Landauer formulae for quasi-particle transport in disordered superconductors. Journal of Physics Condensed Matter, 1991, 3, 6579-6587.	0.7	150
22	Molecular design and control of fullerene-based bi-thermoelectric materials. Nature Materials, 2016, 15, 289-293.	13.3	132
23	Identifying Diversity in Nanoscale Electrical Break Junctions. Journal of the American Chemical Society, 2010, 132, 9157-9164.	6.6	124
24	Functionalization mediates heat transport in graphene nanoflakes. Nature Communications, 2016, 7, 11281.	5.8	123
25	Control of electron transport through Fano resonances in molecular wires. Physical Review B, 2006, 74, .	1.1	120
26	Gating of Quantum Interference in Molecular Junctions by Heteroatom Substitution. Angewandte Chemie - International Edition, 2017, 56, 173-176.	7.2	120
27	Carbon Nanotube Electron Windmills: A Novel Design for Nanomotors. Physical Review Letters, 2008, 100, 256802.	2.9	105
28	Theory of snake states in graphene. Physical Review B, 2008, 77, .	1.1	105
29	Magic Ratios for Connectivity-Driven Electrical Conductance of Graphene-like Molecules. Journal of the American Chemical Society, 2015, 137, 4469-4476.	6.6	101
30	Conductance enlargement in picoscale electroburnt graphene nanojunctions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2658-2663.	3.3	98
31	Graphene-porphyrin single-molecule transistors. Nanoscale, 2015, 7, 13181-13185.	2.8	97
32	Bottom-up Synthesis of Nitrogen-Doped Porous Graphene Nanoribbons. Journal of the American Chemical Society, 2020, 142, 12568-12573.	6.6	97
33	Redox-Dependent Franckâ€“Condon Blockade and Avalanche Transport in a Grapheneâ€“Fullerene Single-Molecule Transistor. Nano Letters, 2016, 16, 170-176.	4.5	93
34	Single-Molecule Solvation-Shell Sensing. Physical Review Letters, 2009, 102, 086801.	2.9	89
35	Oligoyne Molecular Junctions for Efficient Room Temperature Thermoelectric Power Generation. Nano Letters, 2015, 15, 7467-7472.	4.5	88
36	Cadaver lung donors: Effect of preharvest ventilation on graft function. Annals of Thoracic Surgery, 1993, 55, 1185-1191.	0.7	86

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37	Searching the Hearts of Graphene-like Molecules for Simplicity, Sensitivity, and Logic. Journal of the American Chemical Society, 2015, 137, 11425-11431.	6.6	84
38	Bias-Driven Conductance Increase with Length in Porphyrin Tapes. Journal of the American Chemical Society, 2018, 140, 12877-12883.	6.6	84
39	Enhanced Thermoelectric Efficiency of Porous Silicene Nanoribbons. Scientific Reports, 2015, 5, 9514.	1.6	83
40	Multi-probe conductance formulae for mesoscopic superconductors. Journal of Physics Condensed Matter, 1993, 5, 4187-4206.	0.7	79
41	Non-trivial length dependence of the conductance and negative differential resistance in atomic molecular wires. Nanotechnology, 2008, 19, 455203.	1.3	78
42	A 3D Organically Synthesized Porous Carbon Material for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 11952-11956.	7.2	75
43	Sideâ€Groupâ€Mediated Mechanical Conductance Switching in Molecular Junctions. Angewandte Chemie - International Edition, 2017, 56, 15378-15382.	7.2	74
44	A Magic Ratio Rule for Beginners: A Chemist's Guide to Quantum Interference in Molecules. Chemistry - A European Journal, 2018, 24, 4193-4201.	1.7	74
45	Quantum Interference in Graphene Nanoconstrictions. Nano Letters, 2016, 16, 4210-4216.	4.5	70
46	Tuning the Electrical Conductivity of Nanotube-Encapsulated Metallocene Wires. Physical Review Letters, 2006, 96, 106804.	2.9	69
47	Solvent Dependence of the Single Molecule Conductance of Oligoyne-Based Molecular Wires. Journal of Physical Chemistry C, 2016, 120, 15666-15674.	1.5	67
48	Radicalâ€Enhanced Charge Transport in Singleâ€Molecule Phenothiazine Electrical Junctions. Angewandte Chemie - International Edition, 2017, 56, 13061-13065.	7.2	66
49	Thermoelectric properties of mesoscopic superconductors. Physical Review B, 1996, 53, 6605-6612.	1.1	64
50	Quantum interference mediated vertical molecular tunneling transistors. Science Advances, 2018, 4, eaat8237.	4.7	64
51	Enhancing the thermoelectric figure of merit in engineered graphene nanoribbons. Beilstein Journal of Nanotechnology, 2015, 6, 1176-1182.	1.5	60
52	Crossover from mesoscopic to classical proximity effects, induced by particle - hole symmetry breaking in Andreev interferometers. Journal of Physics Condensed Matter, 1996, 8, L45-L50.	0.7	59
53	Quantum interference and heteroaromaticity of para- and meta-linked bridged biphenyl units in single molecular conductance measurements. Scientific Reports, 2017, 7, 1794.	1.6	59
54	Protonation tuning of quantum interference in azulene-type single-molecule junctions. Chemical Science, 2017, 8, 7505-7509.	3.7	58

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55	Structureâ€Independent Conductance of Thiopheneâ€Based Singleâ€Stacking Junctions. Angewandte Chemie - International Edition, 2020, 59, 3280-3286.	7.2	58
56	Conductance Oscillations in Zigzag Platinum Chains. Physical Review Letters, 2005, 95, 256804.	2.9	56
57	Single-molecule electrical studies on a 7 nm long molecular wire. Chemical Communications, 2006, , 4706.	2.2	56
58	Exploring quantum interference in heteroatom-substituted graphene-like molecules. Nanoscale, 2016, 8, 13199-13205.	2.8	56
59	Thermal Transport through Single-Molecule Junctions. Nano Letters, 2019, 19, 7614-7622.	4.5	55
60	Interactions of high-energy (E>5Ã—1019eV) photons in the Earth's magnetic field. Physical Review D, 1981, 24, 2536-2538.	1.6	53
61	Highly-effective gating of single-molecule junctions: an electrochemical approach. Chemical Communications, 2014, 50, 15975-15978.	2.2	53
62	Anchor Groups for Grapheneâ€Porphyrin Singleâ€Molecule Transistors. Advanced Functional Materials, 2018, 28, 1803629.	7.8	52
63	The Conductance of Porphyrin-Based Molecular Nanowires Increases with Length. Nano Letters, 2018, 18, 4482-4486.	4.5	52
64	Singleâ€Molecule Conductance Studies of Organometallic Complexes Bearing 3â€Thienyl Contacting Groups. Chemistry - A European Journal, 2017, 23, 2133-2143.	1.7	50
65	Robust graphene-based molecular devices. Nature Nanotechnology, 2019, 14, 957-961.	15.6	50
66	Variable contact gap single-molecule conductance determination for a series of conjugated molecular bridges. Journal of Physics Condensed Matter, 2008, 20, 374119.	0.7	49
67	First Principles Study of the Binding of 4d and 5d Transition Metals to Graphene. Journal of Physical Chemistry C, 2010, 114, 18548-18552.	1.5	49
68	Silicene-based DNA nucleobase sensing. Applied Physics Letters, 2014, 104, .	1.5	49
69	Threeâ€State Singleâ€Molecule Naphthalenediimide Switch: Integration of a Pendant Redox Unit for Conductance Tuning. Angewandte Chemie - International Edition, 2015, 54, 13586-13589.	7.2	49
70	Experimental and Computational Studies of the Single-Molecule Conductance of Ru(II) and Pt(II) trans-Bis(acetylide) Complexes. Organometallics, 2016, 35, 2944-2954.	1.1	49
71	Lattice dynamics of a disordered solid-solid interface. Physical Review B, 1999, 60, 6459-6464.	1.1	48
72	Correlation of breaking forces, conductances and geometries of molecular junctions. Scientific Reports, 2015, 5, 9002.	1.6	48

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73	Distinguishing Lead and Molecule States in Graphene-Based Single-Electron Transistors. ACS Nano, 2017, 11, 5325-5331.	7.3	48
74	The single-molecule electrical conductance of a rotaxane-hexayne supramolecular assembly. Nanoscale, 2017, 9, 355-361.	2.8	47
75	Charge transfer complexation boosts molecular conductance through Fermi level pinning. Chemical Science, 2019, 10, 2396-2403.	3.7	47
76	Room-temperature logic-in-memory operations in single-metallofullerene devices. Nature Materials, 2022, 21, 917-923.	13.3	47
77	Heteroatom-Induced Molecular Asymmetry Tunes Quantum Interference in Charge Transport through Single-Molecule Junctions. Journal of Physical Chemistry C, 2018, 122, 14965-14970.	1.5	46
78	Controlled Quantum Dot Formation in Atomically Engineered Graphene Nanoribbon Field-Effect Transistors. ACS Nano, 2020, 14, 5754-5762.	7.3	46
79	Effects of antidots on the transport properties of graphene nanoribbons. Physical Review B, 2009, 80, .	1.1	45
80	Self-Assembled Molecular-Electronic Films Controlled by Room Temperature Quantum Interference. CheM, 2019, 5, 474-484.	5.8	45
81	Quantum interference from superconducting islands in a mesoscopic solid. Journal of Physics Condensed Matter, 1993, 5, 707-716.	0.7	44
82	Optimized basis sets for the collinear and non-collinear phases of iron. Journal of Physics Condensed Matter, 2004, 16, 5453-5459.	0.7	44
83	Fano fluctuations in superconducting-nanowire single-photon detectors. Physical Review B, 2017, 96, .	1.1	44
84	Single-molecule level control of host-guest interactions in metallocycle-C60 complexes. Nature Communications, 2019, 10, 4599.	5.8	44
85	Atomically defined angstrom-scale all-carbon junctions. Nature Communications, 2019, 10, 1748.	5.8	44
86	Graphene Sculpturene Nanopores for DNA Nucleobase Sensing. Journal of Physical Chemistry B, 2014, 118, 6908-6914.	1.2	43
87	Hotspot relaxation dynamics in a current-carrying superconductor. Physical Review B, 2016, 93, .	1.1	43
88	Single-channel conductance ofH2molecules attached to platinum or palladium electrodes. Physical Review B, 2005, 72, .	1.1	42
89	Structural versus Electrical Functionalization of Oligo(phenylene ethynylene) Diamine Molecular Junctions. Journal of Physical Chemistry C, 2014, 118, 21655-21662.	1.5	42
90	Toward High Thermoelectric Performance of Thiophene and Ethylenedioxythiophene (EDOT) Molecular Wires. Advanced Functional Materials, 2018, 28, 1703135.	7.8	42

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91	Turning the Tap: Conformational Control of Quantum Interference to Modulate Singleâ€Molecule Conductance. Angewandte Chemie - International Edition, 2019, 58, 18987-18993.	7.2	42
92	Cross-plane transport in a single-molecule two-dimensional van der Waals heterojunction. Science Advances, 2020, 6, eaba6714.	4.7	42
93	Phase averaging in one-dimensional random systems. Physical Review B, 1982, 26, 4742-4744.	1.1	41
94	Effect of a free radical scavenger on cadaver lung transplantation. Annals of Thoracic Surgery, 1993, 55, 1453-1459.	0.7	41
95	Gating of single molecule junction conductance by charge transfer complex formation. Nanoscale, 2015, 7, 18949-18955.	2.8	41
96	A New Approach to Materials Discovery for Electronic and Thermoelectric Properties of Single-Molecule Junctions. Nano Letters, 2016, 16, 1308-1316.	4.5	41
97	Andreev Scattering, Universal Conductance Fluctuations and Phase Periodic Transport. Europhysics Letters, 1993, 23, 203-209.	0.7	40
98	Electronic properties of linear carbon chains: Resolving the controversy. Journal of Chemical Physics, 2014, 140, 104306.	1.2	40
99	A Sm(II)-Mediated Cascade Approach to Dibenzoindolo[3,2-b]carbazoles: Synthesis and Evaluation. Organic Letters, 2014, 16, 2292-2295.	2.4	40
100	Redox Control of Charge Transport in Vertical Ferrocene Molecular Tunnel Junctions. CheM, 2020, 6, 1172-1182.	5.8	40
101	Theory of Andreev resonances in quantum dots. Journal of Physics Condensed Matter, 1995, 7, 8757-8784.	0.7	39
102	Unusual Length Dependence of the Conductance in Cumulene Molecular Wires. Angewandte Chemie - International Edition, 2019, 58, 8378-8382.	7.2	39
103	Localisation with phase correlations and the effect of periodic cycles. Journal of Physics C: Solid State Physics, 1984, 17, 2401-2414.	1.5	38
104	Robust Molecular Anchoring to Graphene Electrodes. Nano Letters, 2017, 17, 4611-4618.	4.5	38
105	Detecting Mechanochemical Atropisomerization within an STM Break Junction. Journal of the American Chemical Society, 2018, 140, 710-718.	6.6	38
106	Conformation dependence of molecular conductance: chemistry versus geometry. Journal of Physics Condensed Matter, 2008, 20, 022203.	0.7	37
107	Adverse effects of asymmetric contacts on single molecule conductances of HS(CH2)nCOOH in nanoelectrical junctions. Nanotechnology, 2009, 20, 125203.	1.3	37
108	Molecular Bridging of Silicon Nanogaps. ACS Nano, 2010, 4, 7401-7406.	7.3	37

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109	Quantum interference in single molecule electronic systems. Physical Review B, 2011, 83, .	1.1	37
110	A study of planar anchor groups for graphene-based single-molecule electronics. Journal of Chemical Physics, 2014, 140, 054708.	1.2	37
111	A C₆₀-aryne building block: synthesis of a hybrid all-carbon nanostructure. Chemical Communications, 2016, 52, 6677-6680.	2.2	37
112	High-performance thermoelectricity in edge-over-edge zinc-porphyrin molecular wires. Nanoscale, 2017, 9, 5299-5304.	2.8	37
113	LÃ©vy Flights in Quantum Transport in Quasiballistic Wires. Physical Review Letters, 1998, 81, 1274-1277.	2.9	36
114	Boundary conditions for quasiclassical equations in the theory of superconductivity. Physical Review B, 1997, 55, 6015-6021.	1.1	35
115	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
116	Quantum-interference-enhanced thermoelectricity in single molecules and molecular films. Comptes Rendus Physique, 2016, 17, 1084-1095.	0.3	34
117	Cross-plane enhanced thermoelectricity and phonon suppression in graphene/MoS ₂ van der Waals heterostructures. 2D Materials, 2017, 4, 015012.	2.0	34
118	Scale-Up of Room-Temperature Constructive Quantum Interference from Single Molecules to Self-Assembled Molecular-Electronic Films. Journal of the American Chemical Society, 2020, 142, 8555-8560.	6.6	34
119	First principles simulations of the magnetic and structural properties of Iron. European Physical Journal B, 2004, 40, 371-377.	0.6	33
120	Tuning the thermoelectric properties of metallo-porphyrins. Nanoscale, 2016, 8, 2428-2433.	2.8	33
121	Thermoelectric Properties of 2,7-Dipyridylfluorene Derivatives in Single-Molecule Junctions. Journal of Physical Chemistry C, 2018, 122, 27198-27204.	1.5	33
122	Unconventional Single-Molecule Conductance Behavior for a New Heterocyclic Anchoring Group: Pyrazolyl. Journal of Physical Chemistry Letters, 2018, 9, 5364-5372.	2.1	33
123	Localization properties of fractons in percolating structures. Physical Review Letters, 1991, 66, 1074-1077.	2.9	32
124	Distribution of time constants for tunneling through a one-dimensional disordered chain. Physical Review B, 1999, 60, 10569-10572.	1.1	32
125	Quasiparticle recombination in hotspots in superconducting current-carrying nanowires. Physical Review B, 2015, 92, .	1.1	32
126	Order and disorder in two-dimensional random networks. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1983, 47, 445-450.	0.6	31

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127	Phase-coherent transport in hybrid superconducting nanostructures. AIP Conference Proceedings, 1998, , .	0.3	31
128	Quasiparticle and excitonic gaps of one-dimensional carbon chains. Physical Chemistry Chemical Physics, 2016, 18, 14810-14821.	1.3	31
129	Electrochemical control of the single molecule conductance of a conjugated bis(pyrrolo)tetrathiafulvalene based molecular switch. Chemical Science, 2017, 8, 6123-6130.	3.7	31
130	Redox control of thermopower and figure of merit in phase-coherent molecular wires. Nanotechnology, 2014, 25, 205402.	1.3	30
131	Asymmetry-induced resistive switching in Ag-Ag2S-Ag memristors enabling a simplified atomic-scale memory design. Scientific Reports, 2016, 6, 30775.	1.6	30
132	Insulated molecular wires: inhibiting orthogonal contacts in metal complex based molecular junctions. Nanoscale, 2017, 9, 9902-9912.	2.8	30
133	Andreev reflections and magnetoresistance in ferromagnet-superconductor mesoscopic structures. JETP Letters, 1999, 69, 532-538.	0.4	29
134	Phonon-mediated thermal conductance of mesoscopic wires with rough edges. Physical Review B, 1999, 60, 15593-15596.	1.1	28
135	Josephson effects in an alternating current biased transition edge sensor. Applied Physics Letters, 2014, 105, .	1.5	28
136	Thermoelectric Enhancement in Single Organic Radical Molecules. Nano Letters, 2022, 22, 948-953.	4.5	28
137	Anomalies in the transport properties of a disordered solid. Physical Review B, 1984, 29, 1091-1093.	1.1	27
138	Synthesis and Properties of Functionalized 4 nm Scale Molecular Wires with Thiolated Termini for Self-Assembly onto Metal Surfaces. Journal of Organic Chemistry, 2008, 73, 4810-4818.	1.7	27
139	Tuning the electrical conductance of metalloporphyrin supramolecular wires. Scientific Reports, 2016, 6, 37352.	1.6	27
140	Suppression of Phonon Transport in Molecular Christmas Trees. ChemPhysChem, 2017, 18, 1234-1241.	1.0	27
141	Interplay between spin-relaxation and Andreev reflection in ferromagnetic wires with superconducting contacts. Physical Review B, 1999, 60, 15394-15397.	1.1	26
142	Electron and heat transport in porphyrin-based single-molecule transistors with electro-burnt graphene electrodes. Beilstein Journal of Nanotechnology, 2015, 6, 1413-1420.	1.5	26
143	Synthesis and Singleâ€Molecule Conductance Study of Redoxâ€Active Ruthenium Complexes with Pyridyl and Dihydrobenzo[b]thiophene Anchoring Groups. Chemistry - A European Journal, 2016, 22, 12732-12740.	1.7	26
144	Connectivity-driven bi-thermoelectricity in heteroatom-substituted molecular junctions. Physical Chemistry Chemical Physics, 2018, 20, 9630-9637.	1.3	26

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145	Hemilabile Ligands as Mechanosensitive Electrode Contacts for Molecular Electronics. Angewandte Chemie - International Edition, 2019, 58, 16583-16589.	7.2	26
146	Exploring antiaromaticity in single-molecule junctions formed from biphenylene derivatives. Nanoscale, 2019, 11, 20659-20666.	2.8	26
147	Tuning the thermoelectrical properties of anthracene-based self-assembled monolayers. Chemical Science, 2020, 11, 6836-6841.	3.7	26
148	Decimation and Anderson Localization. Physica Status Solidi (B): Basic Research, 1980, 101, 591-595.	0.7	25
149	Relaxation near a noise-induced transition point. Physical Review A, 1989, 40, 2875-2878.	1.0	25
150	Electron transport in carbon nanotube shuttles and telescopes. Physical Review B, 2004, 70, .	1.1	25
151	Andreev reflection through Fano resonances in molecular wires. Physical Review B, 2009, 79, .	1.1	25
152	Current rectification in molecular junctions produced by local potential fields. Physical Review B, 2010, 81, .	1.1	25
153	Phase Tag-Assisted Synthesis of Benzo[b]carbazole End-Capped Oligothiophenes. Organic Letters, 2012, 14, 5744-5747.	2.4	25
154	Gateway state-mediated, long-range tunnelling in molecular wires. Nanoscale, 2018, 10, 3060-3067.	2.8	25
155	Cross-conjugation increases the conductance of meta-connected fluorenones. Nanoscale, 2019, 11, 13720-13724.	2.8	25
156	Synthetic Control of Quantum Interference by Regulating Charge on a Single Atom in Heteroaromatic Molecular Junctions. Journal of Physical Chemistry Letters, 2019, 10, 6419-6424.	2.1	25
157	Bandgap modulation of narrow-gap carbon nanotubes in a transverse electric field. Europhysics Letters, 2006, 73, 759-764.	0.7	24
158	Functional molecular wires. Physical Chemistry Chemical Physics, 2008, 10, 1859.	1.3	23
159	In situ formation of H-bonding imidazole chains in break-junction experiments. Nanoscale, 2020, 12, 7914-7920.	2.8	23
160	Anisotropic magnetoresistance in atomic chains of iridium and platinum from first principles. Physical Review B, 2009, 79, .	1.1	22
161	Effects of Electrodeâ€“Molecule Binding and Junction Geometry on the Single-Molecule Conductance of bis-2,2â€²:6â€²,2â€³-Terpyridine-based Complexes. Inorganic Chemistry, 2016, 55, 2691-2700.	1.9	22
162	Connectivity dependence of Fano resonances in single molecules. Physical Chemistry Chemical Physics, 2017, 19, 6416-6421.	1.3	22

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163	Gating of Quantum Interference in Molecular Junctions by Heteroatom Substitution. Angewandte Chemie, 2017, 129, 179-182.	1.6	22
164	Low-Frequency Noise in Graphene Tunnel Junctions. ACS Nano, 2018, 12, 9451-9460.	7.3	22
165	Carbazoleâ€Based Tetrapodal Anchor Groups for Gold Surfaces: Synthesis and Conductance Properties. Angewandte Chemie - International Edition, 2020, 59, 882-889.	7.2	22
166	RandomT-matrix approach to one-dimensional localization. Physical Review B, 1983, 27, 715-726.	1.1	21
167	Suppression of Giant Magnetoresistance by a Superconducting Contact. Physical Review Letters, 1999, 82, 4938-4941.	2.9	21
168	Hartree-Fock study of phase sensitivity in disordered rings. Physical Review B, 1999, 60, 7684-7686.	1.1	21
169	Quantum entanglement generation with surface acoustic waves. Physical Review B, 2006, 74, .	1.1	21
170	Athermal energy loss from x-rays deposited in thin superconducting films on solid substrates. Physical Review B, 2013, 87, .	1.1	21
171	Tuning thermoelectric properties of graphene/boron nitride heterostructures. Nanotechnology, 2015, 26, 475401.	1.3	21
172	Interplay between quantum interference and conformational fluctuations in single-molecule break junctions. Nanoscale, 2015, 7, 1096-1101.	2.8	21
173	Quantum mechanics on graphs. Journal of Physics A, 1994, 27, 6881-6892.	1.6	20
174	Ballistic transport and boundary scattering in InSb/In<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:mrow	1.1	20
175	Advanced Simulation of Conductance Histograms Validated through Channel-Sensitive Experiments on Indium Nanojunctions. Physical Review Letters, 2011, 107, 276801.	2.9	20
176	First-principles scheme for spectral adjustment in nanoscale transport. New Journal of Physics, 2011, 13, 053026.	1.2	20
177	Suppression of single-molecule conductance fluctuations using extended anchor groups on graphene and carbon-nanotube electrodes. Physical Review B, 2012, 86, .	1.1	20
178	Increasing the thermopower of crown-ether-bridged anthraquinones. Nanoscale, 2015, 7, 17338-17342.	2.8	20
179	High cross-plane thermoelectric performance of metallo-porphyrin molecular junctions. Physical Chemistry Chemical Physics, 2017, 19, 17356-17359.	1.3	20
180	A single-molecule porphyrin-based switch for graphene nano-gaps. Nanoscale, 2018, 10, 6524-6530.	2.8	20

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181	Oscillating Seebeck coefficients in Ï€-stacked molecular junctions. RSC Advances, 2018, 8, 24711-24715.	1.7	20
182	Single molecule vs. large area design of molecular electronic devices incorporating an efficient 2-aminepyridine double anchoring group. Nanoscale, 2019, 11, 15871-15880.	2.8	20
183	Room-temperature quantum interference in single perovskite quantum dot junctions. Nature Communications, 2019, 10, 5458.	5.8	20
184	Theory of the sign of multi-probe conductances for normal and superconducting materials. Journal of Physics Condensed Matter, 1994, 6, 10475-10486.	0.7	19
185	Self-consistent current-voltage characteristics of superconducting nanostructures. Physical Review B, 1995, 51, 17999-18002.	1.1	19
186	Strongly correlated electron physics in nanotube-encapsulated metallocene chains. Physical Review B, 2006, 74, .	1.1	19
187	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.	6.6	19
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