

Colin J Lambert

List of Publications by Citations

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372
papers

12,228
citations

49
h-index

96
g-index

400
ext. papers

13,740
ext. citations

6.4
avg, IF

6.51
L-index

#	Paper	IF	Citations
372	Towards molecular spintronics. <i>Nature Materials</i> , 2005 , 4, 335-9	27	1096
371	Spin and molecular electronics in atomically generated orbital landscapes. <i>Physical Review B</i> , 2006 , 73,	3.3	551
370	Single molecular conductance of tolanes: experimental and theoretical study on the junction evolution dependent on the anchoring group. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2292-304	16.4	294
369	Long-range electron tunnelling in oligo-porphyrin molecular wires. <i>Nature Nanotechnology</i> , 2011 , 6, 517-23	23.7	283
368	Basic concepts of quantum interference and electron transport in single-molecule electronics. <i>Chemical Society Reviews</i> , 2015 , 44, 875-88	58.5	261
367	Precision control of single-molecule electrical junctions. <i>Nature Materials</i> , 2006 , 5, 995-1002	27	255
366	General Green's-function formalism for transport calculations with spd Hamiltonians and giant magnetoresistance in Co- and Ni-based magnetic multilayers. <i>Physical Review B</i> , 1999 , 59, 11936-11948	3.3	255
365	Correlations between molecular structure and single-junction conductance: a case study with oligo(phenylene-ethynylene)-type wires. <i>Journal of the American Chemical Society</i> , 2012 , 134, 5262-75	16.4	240
364	Single-molecule conductance of functionalized oligoynes: length dependence and junction evolution. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12228-40	16.4	232
363	Giant thermopower and figure of merit in single-molecule devices. <i>Physical Review B</i> , 2009 , 79,	3.3	216
362	A strategy to increase the donor pool: use of cadaver lungs for transplantation. <i>Annals of Thoracic Surgery</i> , 1991 , 52, 1113-20; discussion 1120-1	2.7	204
361	GOLLUM: a next-generation simulation tool for electron, thermal and spin transport. <i>New Journal of Physics</i> , 2014 , 16, 093029	2.9	198
360	Oligoyne single molecule wires. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15647-54	16.4	188
359	Phase-coherent transport in hybrid superconducting nanostructures. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 901-941	1.8	161
358	Fractional quantum conductance in carbon nanotubes. <i>Physical Review Letters</i> , 2000 , 84, 1974-7	7.4	150
357	Magnetic edge states and coherent manipulation of graphene nanoribbons. <i>Nature</i> , 2018 , 557, 691-695	50.4	147
356	Generalized Landauer formulae for quasi-particle transport in disordered superconductors. <i>Journal of Physics Condensed Matter</i> , 1991 , 3, 6579-6587	1.8	137

355	A quantum circuit rule for interference effects in single-molecule electrical junctions. <i>Nature Communications</i> , 2015 , 6, 6389	17.4	135
354	Engineering the thermopower of C60 molecular junctions. <i>Nano Letters</i> , 2013 , 13, 2141-5	11.5	133
353	An MCBJ case study: The influence of π -conjugation on the single-molecule conductance at a solid/liquid interface. <i>Beilstein Journal of Nanotechnology</i> , 2011 , 2, 699-713	3	130
352	Anti-resonance features of destructive quantum interference in single-molecule thiophene junctions achieved by electrochemical gating. <i>Nature Materials</i> , 2019 , 18, 364-369	27	106
351	Control of electron transport through Fano resonances in molecular wires. <i>Physical Review B</i> , 2006 , 74,	3.3	106
350	Molecular design and control of fullerene-based bi-thermoelectric materials. <i>Nature Materials</i> , 2016 , 15, 289-93	27	105
349	Functionalization mediates heat transport in graphene nanoflakes. <i>Nature Communications</i> , 2016 , 7, 11281	17.4	104
348	Identifying diversity in nanoscale electrical break junctions. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9157-64	16.4	100
347	Theory of snake states in graphene. <i>Physical Review B</i> , 2008 , 77,	3.3	97
346	Carbon nanotube electron windmills: a novel design for nanomotors. <i>Physical Review Letters</i> , 2008 , 100, 256802	7.4	96
345	Gating of Quantum Interference in Molecular Junctions by Heteroatom Substitution. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 173-176	16.4	95
344	Single-molecule solvation-shell sensing. <i>Physical Review Letters</i> , 2009 , 102, 086801	7.4	82
343	Conductance enlargement in picoscale electroburnt graphene nanojunctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2658-63	11.5	81
342	Graphene-porphyrin single-molecule transistors. <i>Nanoscale</i> , 2015 , 7, 13181-5	7.7	78
341	Cadaver lung donors: effect of preharvest ventilation on graft function. <i>Annals of Thoracic Surgery</i> , 1993 , 55, 1185-91	2.7	78
340	Magic ratios for connectivity-driven electrical conductance of graphene-like molecules. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4469-76	16.4	76
339	Non-trivial length dependence of the conductance and negative differential resistance in atomic molecular wires. <i>Nanotechnology</i> , 2008 , 19, 455203	3.4	76
338	Oligoyne Molecular Junctions for Efficient Room Temperature Thermoelectric Power Generation. <i>Nano Letters</i> , 2015 , 15, 7467-72	11.5	72

337	Enhanced thermoelectric efficiency of porous silicene nanoribbons. <i>Scientific Reports</i> , 2015 , 5, 9514	4.9	72
336	Multi-probe conductance formulae for mesoscopic superconductors. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 4187-4206	1.8	72
335	Redox-Dependent Franck-Condon Blockade and Avalanche Transport in a Graphene-Fullerene Single-Molecule Transistor. <i>Nano Letters</i> , 2016 , 16, 170-6	11.5	71
334	Searching the Hearts of Graphene-like Molecules for Simplicity, Sensitivity, and Logic. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11425-31	16.4	65
333	Tuning the electrical conductivity of nanotube-encapsulated metallocene wires. <i>Physical Review Letters</i> , 2006 , 96, 106804	7.4	63
332	Bias-Driven Conductance Increase with Length in Porphyrin Tapes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12877-12883	16.4	59
331	Single-molecule electrical studies on a 7 nm long molecular wire. <i>Chemical Communications</i> , 2006 , 4706-8	3.8	55
330	Solvent Dependence of the Single Molecule Conductance of Oligoynes-Based Molecular Wires. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15666-15674	3.8	53
329	Crossover from mesoscopic to classical proximity effects, induced by particle - hole symmetry breaking in Andreev interferometers. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, L45-L50	1.8	53
328	Thermoelectric properties of mesoscopic superconductors. <i>Physical Review B</i> , 1996 , 53, 6605-6612	3.3	53
327	A Magic Ratio Rule for Beginners: A Chemist's Guide to Quantum Interference in Molecules. <i>Chemistry - A European Journal</i> , 2018 , 24, 4193-4201	4.8	52
326	Side-Group-Mediated Mechanical Conductance Switching in Molecular Junctions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15378-15382	16.4	50
325	Conductance oscillations in zigzag platinum chains. <i>Physical Review Letters</i> , 2005 , 95, 256804	7.4	50
324	Interactions of high-energy ($E > 5 \times 10^{19}$ eV) photons in the Earth's magnetic field. <i>Physical Review D</i> , 1981 , 24, 2536-2538	4.9	49
323	Quantum Interference in Graphene Nanoconstrictions. <i>Nano Letters</i> , 2016 , 16, 4210-6	11.5	48
322	Quantum interference and heteroaromaticity of para- and meta-linked bridged biphenyl units in single molecular conductance measurements. <i>Scientific Reports</i> , 2017 , 7, 1794	4.9	48
321	A 3D Organically Synthesized Porous Carbon Material for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11952-11956	16.4	47
320	Silicene-based DNA nucleobase sensing. <i>Applied Physics Letters</i> , 2014 , 104, 103104	3.4	46

3 ¹⁹	Enhancing the thermoelectric figure of merit in engineered graphene nanoribbons. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1176-82	3	46
3 ¹⁸	First Principles Study of the Binding of 4d and 5d Transition Metals to Graphene. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18548-18552	3.8	46
3 ¹⁷	Lattice dynamics of a disordered solid-solid interface. <i>Physical Review B</i> , 1999 , 60, 6459-6464	3.3	46
3 ¹⁶	Exploring quantum interference in heteroatom-substituted graphene-like molecules. <i>Nanoscale</i> , 2016 , 8, 13199-205	7.7	45
3 ¹⁵	Radical-Enhanced Charge Transport in Single-Molecule Phenothiazine Electrical Junctions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13061-13065	16.4	44
3 ¹⁴	Protonation tuning of quantum interference in azulene-type single-molecule junctions. <i>Chemical Science</i> , 2017 , 8, 7505-7509	9.4	43
3 ¹³	Quantum interference mediated vertical molecular tunneling transistors. <i>Science Advances</i> , 2018 , 4, eaat8237	18.3	43
3 ¹²	Single-Molecule Conductance Studies of Organometallic Complexes Bearing 3-Thienyl Contacting Groups. <i>Chemistry - A European Journal</i> , 2017 , 23, 2133-2143	4.8	41
3 ¹¹	Effects of antidots on the transport properties of graphene nanoribbons. <i>Physical Review B</i> , 2009 , 80,	3.3	41
3 ¹⁰	Variable contact gap single-molecule conductance determination for a series of conjugated molecular bridges. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 374119	1.8	41
3 ⁰⁹	Single-channel conductance of H ₂ molecules attached to platinum or palladium electrodes. <i>Physical Review B</i> , 2005 , 72,	3.3	41
3 ⁰⁸	Quantum interference from superconducting islands in a mesoscopic solid. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 707-716	1.8	41
3 ⁰⁷	Correlation of breaking forces, conductances and geometries of molecular junctions. <i>Scientific Reports</i> , 2015 , 5, 9002	4.9	40
3 ⁰⁶	Graphene sculpturene nanopores for DNA nucleobase sensing. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 6908-14	3.4	39
3 ⁰⁵	Three-State Single-Molecule Naphthalenediimide Switch: Integration of a Pendant Redox Unit for Conductance Tuning. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13586-9	16.4	39
3 ⁰⁴	The Conductance of Porphyrin-Based Molecular Nanowires Increases with Length. <i>Nano Letters</i> , 2018 , 18, 4482-4486	11.5	38
3 ⁰³	Highly-effective gating of single-molecule junctions: an electrochemical approach. <i>Chemical Communications</i> , 2014 , 50, 15975-8	5.8	38
3 ⁰²	Optimized basis sets for the collinear and non-collinear phases of iron. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 5453-5459	1.8	38

301	Effect of a free radical scavenger on cadaver lung transplantation. <i>Annals of Thoracic Surgery</i> , 1993 , 55, 1453-9	2.7	38
300	Experimental and Computational Studies of the Single-Molecule Conductance of Ru(II) and Pt(II) trans-Bis(acetylide) Complexes. <i>Organometallics</i> , 2016 , 35, 2944-2954	3.8	38
299	A Sm(II)-mediated cascade approach to dibenzoindolo[3,2-b]carbazoles: synthesis and evaluation. <i>Organic Letters</i> , 2014 , 16, 2292-5	6.2	37
298	Localisation with phase correlations and the effect of periodic cycles. <i>Journal of Physics C: Solid State Physics</i> , 1984 , 17, 2401-2414		37
297	Distinguishing Lead and Molecule States in Graphene-Based Single-Electron Transistors. <i>ACS Nano</i> , 2017 , 11, 5325-5331	16.7	36
296	The single-molecule electrical conductance of a rotaxane-hexayne supramolecular assembly. <i>Nanoscale</i> , 2017 , 9, 355-361	7.7	36
295	Hotspot relaxation dynamics in a current-carrying superconductor. <i>Physical Review B</i> , 2016 , 93,	3.3	36
294	Structural versus Electrical Functionalization of Oligo(phenylene ethynylene) Diamine Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21655-21662	3.8	36
293	Andreev Scattering, Universal Conductance Fluctuations and Phase Periodic Transport. <i>Europhysics Letters</i> , 1993 , 23, 203-209	1.6	36
292	Phase averaging in one-dimensional random systems. <i>Physical Review B</i> , 1982 , 26, 4742-4744	3.3	36
291	Anchor Groups for Graphene-Porphyrin Single-Molecule Transistors. <i>Advanced Functional Materials</i> , 2018 , 28, 1803629	15.6	35
290	Bottom-up Synthesis of Nitrogen-Doped Porous Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12568-12573	16.4	34
289	Toward High Thermoelectric Performance of Thiophene and Ethylenedioxythiophene (EDOT) Molecular Wires. <i>Advanced Functional Materials</i> , 2018 , 28, 1703135	15.6	34
288	Adverse effects of asymmetric contacts on single molecule conductances of HS(CH ₂) _n COOH in nanoelectrical junctions. <i>Nanotechnology</i> , 2009 , 20, 125203	3.4	34
287	Theory of Andreev resonances in quantum dots. <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 8757-8784	4.8	34
286	Gating of single molecule junction conductance by charge transfer complex formation. <i>Nanoscale</i> , 2015 , 7, 18949-55	7.7	33
285	Heteroatom-Induced Molecular Asymmetry Tunes Quantum Interference in Charge Transport through Single-Molecule Junctions. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14965-14970	3.8	33
284	Fano fluctuations in superconducting-nanowire single-photon detectors. <i>Physical Review B</i> , 2017 , 96,	3.3	33

283	Molecular bridging of silicon nanogaps. <i>ACS Nano</i> , 2010 , 4, 7401-6	16.7	33
282	A C60-aryne building block: synthesis of a hybrid all-carbon nanostructure. <i>Chemical Communications</i> , 2016 , 52, 6677-80	5.8	33
281	Thermal Transport through Single-Molecule Junctions. <i>Nano Letters</i> , 2019 , 19, 7614-7622	11.5	32
280	Detecting Mechanochemical Atropisomerization within an STM Break Junction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 710-718	16.4	32
279	A study of planar anchor groups for graphene-based single-molecule electronics. <i>Journal of Chemical Physics</i> , 2014 , 140, 054708	3.9	32
278	Electronic properties of linear carbon chains: resolving the controversy. <i>Journal of Chemical Physics</i> , 2014 , 140, 104306	3.9	32
277	Quantum interference in single molecule electronic systems. <i>Physical Review B</i> , 2011 , 83,	3.3	32
276	Conformation dependence of molecular conductance: chemistry versus geometry. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 022203	1.8	32
275	Ly Flights in Quantum Transport in Quasiballistic Wires. <i>Physical Review Letters</i> , 1998 , 81, 1274-1277	7.4	32
274	A New Approach to Materials Discovery for Electronic and Thermoelectric Properties of Single-Molecule Junctions. <i>Nano Letters</i> , 2016 , 16, 1308-16	11.5	31
273	Distribution of time constants for tunneling through a one-dimensional disordered chain. <i>Physical Review B</i> , 1999 , 60, 10569-10572	3.3	31
272	Localization properties of fractons in percolating structures. <i>Physical Review Letters</i> , 1991 , 66, 1074-1077	7.4	31
271	Order and disorder in two-dimensional random networks. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1983 , 47, 445-450		30
270	Robust Molecular Anchoring to Graphene Electrodes. <i>Nano Letters</i> , 2017 , 17, 4611-4618	11.5	29
269	First principles simulations of the magnetic and structural properties of Iron. <i>European Physical Journal B</i> , 2004 , 40, 371-377	1.2	29
268	Quantum-interference-enhanced thermoelectricity in single molecules and molecular films. <i>Comptes Rendus Physique</i> , 2016 , 17, 1084-1095	1.4	29
267	Robust graphene-based molecular devices. <i>Nature Nanotechnology</i> , 2019 , 14, 957-961	28.7	28
266	Self-Assembled Molecular-Electronic Films Controlled by Room Temperature Quantum Interference. <i>CheM</i> , 2019 , 5, 474-484	16.2	28

265	Boundary conditions for quasiclassical equations in the theory of superconductivity. <i>Physical Review B</i> , 1997 , 55, 6015-6021	3.3	28
264	Phonon-mediated thermal conductance of mesoscopic wires with rough edges. <i>Physical Review B</i> , 1999 , 60, 15593-15596	3.3	28
263	Charge transfer complexation boosts molecular conductance through Fermi level pinning. <i>Chemical Science</i> , 2019 , 10, 2396-2403	9.4	27
262	Cross-plane enhanced thermoelectricity and phonon suppression in graphene/MoS ₂ van der Waals heterostructures. <i>2D Materials</i> , 2017 , 4, 015012	5.9	27
261	Andreev reflections and magnetoresistance in ferromagnet-superconductor mesoscopic structures. <i>JETP Letters</i> , 1999 , 69, 532-538	1.2	27
260	High-performance thermoelectricity in edge-over-edge zinc-porphyrin molecular wires. <i>Nanoscale</i> , 2017 , 9, 5299-5304	7.7	26
259	Unusual Length Dependence of the Conductance in Cumulene Molecular Wires. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8378-8382	16.4	26
258	Quasiparticle recombination in hotspots in superconducting current-carrying nanowires. <i>Physical Review B</i> , 2015 , 92,	3.3	26
257	Quasiparticle and excitonic gaps of one-dimensional carbon chains. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14810-21	3.6	26
256	Redox control of thermopower and figure of merit in phase-coherent molecular wires. <i>Nanotechnology</i> , 2014 , 25, 205402	3.4	26
255	Interplay between spin-relaxation and Andreev reflection in ferromagnetic wires with superconducting contacts. <i>Physical Review B</i> , 1999 , 60, 15394-15397	3.3	26
254	Anomalies in the transport properties of a disordered solid. <i>Physical Review B</i> , 1984 , 29, 1091-1093	3.3	26
253	Current rectification in molecular junctions produced by local potential fields. <i>Physical Review B</i> , 2010 , 81,	3.3	25
252	Electron transport in carbon nanotube shuttles and telescopes. <i>Physical Review B</i> , 2004 , 70,	3.3	25
251	Atomically defined angstrom-scale all-carbon junctions. <i>Nature Communications</i> , 2019 , 10, 1748	17.4	24
250	Tuning the thermoelectric properties of metallo-porphyrins. <i>Nanoscale</i> , 2016 , 8, 2428-33	7.7	24
249	Insulated molecular wires: inhibiting orthogonal contacts in metal complex based molecular junctions. <i>Nanoscale</i> , 2017 , 9, 9902-9912	7.7	23
248	Electron and heat transport in porphyrin-based single-molecule transistors with electro-burnt graphene electrodes. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1413-20	3	23

247	Josephson effects in an alternating current biased transition edge sensor. <i>Applied Physics Letters</i> , 2014 , 105, 162605	3.4	23
246	Functional molecular wires. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 1859-66	3.6	23
245	Synthesis and properties of functionalized 4 nm scale molecular wires with thiolated termini for self-assembly onto metal surfaces. <i>Journal of Organic Chemistry</i> , 2008 , 73, 4810-8	4.2	23
244	Bandgap modulation of narrow-gap carbon nanotubes in a transverse electric field. <i>Europhysics Letters</i> , 2006 , 73, 759-764	1.6	23
243	Decimation and Anderson Localization. <i>Physica Status Solidi (B): Basic Research</i> , 1980 , 101, 591-595	1.3	23
242	Thermoelectric Properties of 2,7-Dipyridylfluorene Derivatives in Single-Molecule Junctions. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27198-27204	3.8	23
241	Suppression of Phonon Transport in Molecular Christmas Trees. <i>ChemPhysChem</i> , 2017 , 18, 1234-1241	3.2	22
240	Controlled Quantum Dot Formation in Atomically Engineered Graphene Nanoribbon Field-Effect Transistors. <i>ACS Nano</i> , 2020 , 14, 5754-5762	16.7	22
239	Tuning the electrical conductance of metalloporphyrin supramolecular wires. <i>Scientific Reports</i> , 2016 , 6, 37352	4.9	22
238	Phase tag-assisted synthesis of benzo[b]carbazole end-capped oligothiophenes. <i>Organic Letters</i> , 2012 , 14, 5744-7	6.2	22
237	Unconventional Single-Molecule Conductance Behavior for a New Heterocyclic Anchoring Group: Pyrazolyl. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5364-5372	6.4	22
236	Connectivity-driven bi-thermoelectricity in heteroatom-substituted molecular junctions. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 9630-9637	3.6	21
235	Anisotropic magnetoresistance in atomic chains of iridium and platinum from first principles. <i>Physical Review B</i> , 2009 , 79,	3.3	21
234	Scale-Up of Room-Temperature Constructive Quantum Interference from Single Molecules to Self-Assembled Molecular-Electronic Films. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8555-8560	16.4	20
233	Suppression of Giant Magnetoresistance by a Superconducting Contact. <i>Physical Review Letters</i> , 1999 , 82, 4938-4941	7.4	20
232	Relaxation near a noise-induced transition point. <i>Physical Review A</i> , 1989 , 40, 2875-2878	2.6	20
231	Structure-Independent Conductance of Thiophene-Based Single-Stacking Junctions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3280-3286	16.4	20
230	Gating of Quantum Interference in Molecular Junctions by Heteroatom Substitution. <i>Angewandte Chemie</i> , 2017 , 129, 179-182	3.6	19

- 229 Interplay between quantum interference and conformational fluctuations in single-molecule break junctions. *Nanoscale*, **2015**, 7, 1096-101 7.7 19
- 228 Cross-plane transport in a single-molecule two-dimensional van der Waals heterojunction. *Science Advances*, **2020**, 6, eaba6714 14.3 19
- 227 Effects of Electrode-Molecule Binding and Junction Geometry on the Single-Molecule Conductance of bis-2,2':6',2''-Terpyridine-based Complexes. *Inorganic Chemistry*, **2016**, 55, 2691-700 5.1 19
- 226 Turning the Tap: Conformational Control of Quantum Interference to Modulate Single-Molecule Conductance. *Angewandte Chemie - International Edition*, **2019**, 58, 18987-18993 16.4 19
- 225 Single-molecule level control of host-guest interactions in metallocycle-C complexes. *Nature Communications*, **2019**, 10, 4599 17.4 19
- 224 Suppression of single-molecule conductance fluctuations using extended anchor groups on graphene and carbon-nanotube electrodes. *Physical Review B*, **2012**, 86, 3.3 19
- 223 Ballistic transport and boundary scattering in InSb/In_{1-x}Al_xSb mesoscopic devices. *Physical Review B*, **2011**, 83, 3.3 19
- 222 Advanced simulation of conductance histograms validated through channel-sensitive experiments on indium nanojunctions. *Physical Review Letters*, **2011**, 107, 276801 7.4 19
- 221 Andreev reflection through Fano resonances in molecular wires. *Physical Review B*, **2009**, 79, 3.3 19
- 220 First-principles scheme for spectral adjustment in nanoscale transport. *New Journal of Physics*, **2011**, 13, 053026 2.9 19
- 219 Quantum entanglement generation with surface acoustic waves. *Physical Review B*, **2006**, 74, 3.3 19
- 218 Strongly correlated electron physics in nanotube-encapsulated metallocene chains. *Physical Review B*, **2006**, 74, 3.3 19
- 217 Hartree-Fock study of phase sensitivity in disordered rings. *Physical Review B*, **1999**, 60, 7684-7686 3.3 19
- 216 Synthesis and Single-Molecule Conductance Study of Redox-Active Ruthenium Complexes with Pyridyl and Dihydrobenzo[b]thiophene Anchoring Groups. *Chemistry - A European Journal*, **2016**, 22, 12732-40 4.8 19
- 215 Electrochemical control of the single molecule conductance of a conjugated bis(pyrrolo)tetrathiafulvalene based molecular switch. *Chemical Science*, **2017**, 8, 6123-6130 9.4 18
- 214 Redox Control of Charge Transport in Vertical Ferrocene Molecular Tunnel Junctions. *Chem*, **2020**, 6, 1172-1182 16.2 18
- 213 Tuning thermoelectric properties of graphene/boron nitride heterostructures. *Nanotechnology*, **2015**, 26, 475401 3.4 18
- 212 Nonthermal broadening in the conductance of double quantum dot structures. *Physical Review B*, **2007**, 76, 3.3 18

211	Quantum mechanics on graphs. <i>Journal of Physics A</i> , 1994 , 27, 6881-6892		18
210	Random T-matrix approach to one-dimensional localization. <i>Physical Review B</i> , 1983 , 27, 715-726	3.3	18
209	Asymmetry-induced resistive switching in Ag-Ag ₂ S-Ag memristors enabling a simplified atomic-scale memory design. <i>Scientific Reports</i> , 2016 , 6, 30775	4.9	17
208	Athermal energy loss from x-rays deposited in thin superconducting films on solid substrates. <i>Physical Review B</i> , 2013 , 87,	3.3	17
207	Proximity-induced subgaps in andreev billiards. <i>Physical Review Letters</i> , 2002 , 89, 057001	7.4	17
206	Optimal timing of administration of a free radical scavenger in lung preservation. <i>Transplantation</i> , 1992 , 54, 205-9	1.8	17
205	Synthetic Control of Quantum Interference by Regulating Charge on a Single Atom in Heteroaromatic Molecular Junctions. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6419-6424	6.4	15
204	A single-molecule porphyrin-based switch for graphene nano-gaps. <i>Nanoscale</i> , 2018 , 10, 6524-6530	7.7	15
203	Gateway state-mediated, long-range tunnelling in molecular wires. <i>Nanoscale</i> , 2018 , 10, 3060-3067	7.7	15
202	Low-Frequency Noise in Graphene Tunnel Junctions. <i>ACS Nano</i> , 2018 , 12, 9451-9460	16.7	15
201	Sub-100-nm negative bend resistance ballistic sensors for high spatial resolution magnetic field detection. <i>Applied Physics Letters</i> , 2011 , 98, 62106	3.4	15
200	Self-consistent current-voltage characteristics of superconducting nanostructures. <i>Physical Review B</i> , 1995 , 51, 17999-18002	3.3	15
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