

Colin J Lambert

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Thermoelectric properties of organic thin films enhanced by π -stacking. <i>JPhys Energy</i> , 2022 , 4, 024002	4.9	1
371	A Peierls Transition in Long Polymethine Molecular Wires: Evolution of Molecular Geometry and Single-Molecule Conductance. <i>Journal of the American Chemical Society</i> , 2021 , 143, 20472-20481	16.4	3
370	Single-Molecule Charge-Transport Modulation Induced by Steric Effects of Side Alkyl Chains. <i>ChemPhysChem</i> , 2021 , 22, 2573	3.2	4
369	Conformation and Quantum-Interference-Enhanced Thermoelectric Properties of Diphenyl Diketopyrrolopyrrole Derivatives. <i>ACS Sensors</i> , 2021 , 6, 470-476	9.2	3
368	Selective Anchoring Groups for Molecular Electronic Junctions with ITO Electrodes. <i>ACS Sensors</i> , 2021 , 6, 530-537	9.2	3
367	Optimised power harvesting by controlling the pressure applied to molecular junctions. <i>Chemical Science</i> , 2021 , 12, 5230-5235	9.4	5
366	Molecular Structure-(Thermo)electric Property Relationships in Single-Molecule Junctions and Comparisons with Single- and Multiple-Parameter Models. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3817-3829	16.4	12
365	Interference Controls Conductance in Phthalocyanine Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 15035-15043	3.8	2
364	Promotion and suppression of single-molecule conductance by quantum interference in macrocyclic circuits. <i>Matter</i> , 2021 ,	12.7	3
363	Genomics of carbon atomic chains. <i>Carbon</i> , 2021 , 183, 977-983	10.4	1
362	Molecular-scale thermoelectricity: a worst-case scenario. <i>Nanoscale Horizons</i> , 2020 , 5, 1073-1080	10.8	6
361	Cross-plane transport in a single-molecule two-dimensional van der Waals heterojunction. <i>Science Advances</i> , 2020 , 6, eaba6714	14.3	19
360	Tuning the thermoelectrical properties of anthracene-based self-assembled monolayers. <i>Chemical Science</i> , 2020 , 11, 6836-6841	9.4	13
359	Solvent-molecule interaction induced gating of charge transport through single-molecule junctions. <i>Science Bulletin</i> , 2020 , 65, 944-950	10.6	10
358	Conductance Behavior of Tetraphenyl-Aza-BODIPYs. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 6479-6485	3.5	6
357	Redox Control of Charge Transport in Vertical Ferrocene Molecular Tunnel Junctions. <i>Chem</i> , 2020 , 6, 1172-1182	16.2	18
356	Controlled Quantum Dot Formation in Atomically Engineered Graphene Nanoribbon Field-Effect Transistors. <i>ACS Nano</i> , 2020 , 14, 5754-5762	16.7	22

355	Connectivity dependent thermopower of bridged biphenyl molecules in single-molecule junctions. <i>Nanoscale</i> , 2020 , 12, 14682-14688	7.7	6
354	Bottom-up Synthesis of Nitrogen-Doped Porous Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12568-12573	16.4	34
353	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
352	In situ formation of H-bonding imidazole chains in break-junction experiments. <i>Nanoscale</i> , 2020 , 12, 7914-7920	7.7	10
351	Carbazole-Based Tetrapodal Anchor Groups for Gold Surfaces: Synthesis and Conductance Properties. <i>Angewandte Chemie</i> , 2020 , 132, 892-899	3.6	4
350	Carbazole-Based Tetrapodal Anchor Groups for Gold Surfaces: Synthesis and Conductance Properties. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 882-889	16.4	13
349	Structure-Independent Conductance of Thiophene-Based Single-Stacking Junctions. <i>Angewandte Chemie</i> , 2020 , 132, 3306-3312	3.6	2
348	Structure-Independent Conductance of Thiophene-Based Single-Stacking Junctions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3280-3286	16.4	20
347	Exploring the thermoelectric properties of oligo(phenylene-ethynylene) derivatives. <i>Nanoscale</i> , 2020 , 12, 15150-15156	7.7	7
346	Molecular-scale thermoelectricity: as simple as ABC. <i>Nanoscale Advances</i> , 2020 , 2, 5329-5334	5.1	7
345	Electrical molecular switch addressed by chemical stimuli. <i>Nanoscale</i> , 2020 , 12, 10127-10139	7.7	2
344	Constructive Quantum Interference in Single-Molecule Benzodichalcogenophene Junctions. <i>Chemistry - A European Journal</i> , 2020 , 26, 5264-5269	4.8	6
343	Robust graphene-based molecular devices. <i>Nature Nanotechnology</i> , 2019 , 14, 957-961	28.7	28
342	Thermal Transport through Single-Molecule Junctions. <i>Nano Letters</i> , 2019 , 19, 7614-7622	11.5	32
341	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
340	Thermoelectric properties of oligoglycine molecular wires. <i>Nanoscale</i> , 2019 , 11, 3567-3573	7.7	11
339	Charge transfer complexation boosts molecular conductance through Fermi level pinning. <i>Chemical Science</i> , 2019 , 10, 2396-2403	9.4	27
338	Unusual Length Dependence of the Conductance in Cumulene Molecular Wires. <i>Angewandte Chemie</i> , 2019 , 131, 8466	3.6	2

337	Atomically defined angstrom-scale all-carbon junctions. <i>Nature Communications</i> , 2019 , 10, 1748	17.4	24
336	Unusual Length Dependence of the Conductance in Cumulene Molecular Wires. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8378-8382	16.4	26
335	Magic Number Theory of Superconducting Proximity Effects and Wigner Delay Times in Graphene-Like Molecules. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6812-6822	3.8	0
334	On the resilience of magic number theory for conductance ratios of aromatic molecules. <i>Scientific Reports</i> , 2019 , 9, 3478	4.9	5
333	Single-molecule conductance oscillations in alkane rings. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6578-6581	6.581	12
332	Self-Assembled Molecular-Electronic Films Controlled by Room Temperature Quantum Interference. <i>CheM</i> , 2019 , 5, 474-484	16.2	28
331	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
330	Single molecule vs. large area design of molecular electronic devices incorporating an efficient 2-aminepyridine double anchoring group. <i>Nanoscale</i> , 2019 , 11, 15871-15880	7.7	12
329	Nanoscale Thermal Transport in 2D Nanostructures from Cryogenic to Room Temperature. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900331	6.4	9
328	Hemilabile Ligands as Mechanosensitive Electrode Contacts for Molecular Electronics. <i>Angewandte Chemie</i> , 2019 , 131, 16736-16742	3.6	3
327	Cross-conjugation increases the conductance of meta-connected fluorenones. <i>Nanoscale</i> , 2019 , 11, 13720-13724	13724	13
326	Hemilabile Ligands as Mechanosensitive Electrode Contacts for Molecular Electronics. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16583-16589	16.4	11
325	Turning the Tap: Conformational Control of Quantum Interference to Modulate Single-Molecule Conductance. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18987-18993	16.4	19
324	Turning the Tap: Conformational Control of Quantum Interference to Modulate Single-Molecule Conductance. <i>Angewandte Chemie</i> , 2019 , 131, 19163-19169	3.6	7
323	Single-molecule level control of host-guest interactions in metallocycle-C complexes. <i>Nature Communications</i> , 2019 , 10, 4599	17.4	19
322	Innenrücktitelbild: Hemilabile Ligands as Mechanosensitive Electrode Contacts for Molecular Electronics (Angew. Chem. 46/2019). <i>Angewandte Chemie</i> , 2019 , 131, 16851-16851	3.6	
321	Room-temperature quantum interference in single perovskite quantum dot junctions. <i>Nature Communications</i> , 2019 , 10, 5458	17.4	9
320	Exploring antiaromaticity in single-molecule junctions formed from biphenylene derivatives. <i>Nanoscale</i> , 2019 , 11, 20659-20666	7.7	10

319	A single-molecule porphyrin-based switch for graphene nano-gaps. <i>Nanoscale</i> , 2018 , 10, 6524-6530	7.7	15
318	Gateway state-mediated, long-range tunnelling in molecular wires. <i>Nanoscale</i> , 2018 , 10, 3060-3067	7.7	15
317	Strain-induced bi-thermoelectricity in tapered carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 105304	1.8	5
316	Detecting Mechanochemical Atropisomerization within an STM Break Junction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 710-718	16.4	32
315	MoS nano flakes with self-adaptive contacts for efficient thermoelectric energy harvesting. <i>Nanoscale</i> , 2018 , 10, 7575-7580	7.7	8
314	Connectivity-driven bi-thermoelectricity in heteroatom-substituted molecular junctions. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 9630-9637	3.6	21
313	Toward High Thermoelectric Performance of Thiophene and Ethylenedioxythiophene (EDOT) Molecular Wires. <i>Advanced Functional Materials</i> , 2018 , 28, 1703135	15.6	34
312	Oscillating Seebeck coefficients in stacked molecular junctions.. <i>RSC Advances</i> , 2018 , 8, 24711-24715	3.7	10
311	Low-Frequency Noise in Graphene Tunnel Junctions. <i>ACS Nano</i> , 2018 , 12, 9451-9460	16.7	15
310	Röntgenbild: A 3D Organically Synthesized Porous Carbon Material for Lithium-Ion Batteries (Angew. Chem. 37/2018). <i>Angewandte Chemie</i> , 2018 , 130, 12356-12356	3.6	
309	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
308	The Conductance of Porphyrin-Based Molecular Nanowires Increases with Length. <i>Nano Letters</i> , 2018 , 18, 4482-4486	11.5	38
307	A 3D Organically Synthesized Porous Carbon Material for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11952-11956	16.4	47
306	A 3D Organically Synthesized Porous Carbon Material for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 12128-12132	3.6	3
305	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
304	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
303	Cross-plane conductance through a graphene/molecular monolayer/Au sandwich. <i>Nanoscale</i> , 2018 , 10, 19791-19798	7.7	11
302	Stable-radicals increase the conductance and Seebeck coefficient of graphene nanoconstrictions. <i>Nanoscale</i> , 2018 , 10, 19220-19223	7.7	8

301	Quantum interference mediated vertical molecular tunneling transistors. <i>Science Advances</i> , 2018 , 4, eaat8237	18.3	43
300	Anchor Groups for Graphene-Porphyrin Single-Molecule Transistors. <i>Advanced Functional Materials</i> , 2018 , 28, 1803629	15.6	35
299	Breakdown of Curly Arrow Rules in Anthraquinone. <i>Angewandte Chemie</i> , 2018 , 130, 15285-15289	3.6	1
298	Probing Lewis acid-base interactions in single-molecule junctions. <i>Nanoscale</i> , 2018 , 10, 18131-18134	7.7	13
297	Breakdown of Curly Arrow Rules in Anthraquinone. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15065-15069	16.4	10
296	Bias-Driven Conductance Increase with Length in Porphyrin Tapes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12877-12883	16.4	59
295	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
294	Magnetic edge states and coherent manipulation of graphene nanoribbons. <i>Nature</i> , 2018 , 557, 691-695	50.4	147
293	Conductance of 'bare-bones' tripodal molecular wires.. <i>RSC Advances</i> , 2018 , 8, 23585-23590	3.7	9
292	Soft versus hard junction formation for terthiophene molecular wires and their charge transfer complexes. <i>Journal of Chemical Physics</i> , 2017 , 146, 092307	3.9	4
291	Formation of Two-Dimensional Micelles on Graphene: Multi-Scale Theoretical and Experimental Study. <i>ACS Nano</i> , 2017 , 11, 3404-3412	16.7	12
290	Suppression of Phonon Transport in Molecular Christmas Trees. <i>ChemPhysChem</i> , 2017 , 18, 1234-1241	3.2	22
289	Connectivity dependence of Fano resonances in single molecules. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6416-6421	3.6	12
288	Discriminating single-molecule sensing by crown-ether-based molecular junctions. <i>Journal of Chemical Physics</i> , 2017 , 146, 064704	3.9	8
287	Distinguishing Lead and Molecule States in Graphene-Based Single-Electron Transistors. <i>ACS Nano</i> , 2017 , 11, 5325-5331	16.7	36
286	The single-molecule electrical conductance of a rotaxane-hexayne supramolecular assembly. <i>Nanoscale</i> , 2017 , 9, 355-361	7.7	36
285	Gating of Quantum Interference in Molecular Junctions by Heteroatom Substitution. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 173-176	16.4	95
284	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

283	High cross-plane thermoelectric performance of metallo-porphyrin molecular junctions. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 17356-17359	3.6	14
282	Electrochemical control of the single molecule conductance of a conjugated bis(pyrrolo)tetrathiafulvalene based molecular switch. <i>Chemical Science</i> , 2017 , 8, 6123-6130	9.4	18
281	High-performance thermoelectricity in edge-over-edge zinc-porphyrin molecular wires. <i>Nanoscale</i> , 2017 , 9, 5299-5304	7.7	26
280	Tuning the Seebeck coefficient of naphthalenediimide by electrochemical gating and doping. <i>Nanoscale</i> , 2017 , 9, 4819-4825	7.7	9
279	Gating of Quantum Interference in Molecular Junctions by Heteroatom Substitution. <i>Angewandte Chemie</i> , 2017 , 129, 179-182	3.6	19
278	Side-Group-Mediated Mechanical Conductance Switching in Molecular Junctions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15378-15382	16.4	50
277	Side-Group-Mediated Mechanical Conductance Switching in Molecular Junctions. <i>Angewandte Chemie</i> , 2017 , 129, 15580-15584	3.6	12
276	Thermoelectricity in vertical graphene-C-graphene architectures. <i>Scientific Reports</i> , 2017 , 7, 11680	4.9	14
275	Protonation tuning of quantum interference in azulene-type single-molecule junctions. <i>Chemical Science</i> , 2017 , 8, 7505-7509	9.4	43
274	Radical-Enhanced Charge Transport in Single-Molecule Phenothiazine Electrical Junctions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13061-13065	16.4	44
273	Fano fluctuations in superconducting-nanowire single-photon detectors. <i>Physical Review B</i> , 2017 , 96,	3.3	33
272	Radical-Enhanced Charge Transport in Single-Molecule Phenothiazine Electrical Junctions. <i>Angewandte Chemie</i> , 2017 , 129, 13241-13245	3.6	11
271	Insulated molecular wires: inhibiting orthogonal contacts in metal complex based molecular junctions. <i>Nanoscale</i> , 2017 , 9, 9902-9912	7.7	23
270	Robust Molecular Anchoring to Graphene Electrodes. <i>Nano Letters</i> , 2017 , 17, 4611-4618	11.5	29
269	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
268	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
267	Tuning the electrical conductance of metalloporphyrin supramolecular wires. <i>Scientific Reports</i> , 2016 , 6, 37352	4.9	22
266	Hotspot relaxation dynamics in a current-carrying superconductor. <i>Physical Review B</i> , 2016 , 93,	3.3	36

265	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
264	Functionalization mediates heat transport in graphene nanoflakes. <i>Nature Communications</i> , 2016 , 7, 11281	17.4	104
263	Quasiparticle and excitonic gaps of one-dimensional carbon chains. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14810-21	3.6	26
262	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
261	Quantum Interference in Graphene Nanoconstrictions. <i>Nano Letters</i> , 2016 , 16, 4210-6	11.5	48
260	Exploring quantum interference in heteroatom-substituted graphene-like molecules. <i>Nanoscale</i> , 2016 , 8, 13199-205	7.7	45
259	Charge transport through dicarboxylic-acid-terminated alkanes bound to graphene-gold nanogap electrodes. <i>Nanoscale</i> , 2016 , 8, 14507-13	7.7	12
258	Identification of a positive-Seebeck-coefficient exohedral fullerene. <i>Nanoscale</i> , 2016 , 8, 13597-602	7.7	9
257	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
256	Molecular design and control of fullerene-based bi-thermoelectric materials. <i>Nature Materials</i> , 2016 , 15, 289-93	27	105
255	Effects of Electrode-Molecule Binding and Junction Geometry on the Single-Molecule Conductance of bis-2,2':6',2''-Terpyridine-based Complexes. <i>Inorganic Chemistry</i> , 2016 , 55, 2691-700	5.1	19
254	Hexagonal-boron nitride substrates for electroburnt graphene nanojunctions. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 82, 12-15	3	10
253	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
252	Tuning the thermoelectric properties of metallo-porphyrins. <i>Nanoscale</i> , 2016 , 8, 2428-33	7.7	24
251	Quantum-interference-enhanced thermoelectricity in single molecules and molecular films. <i>Comptes Rendus Physique</i> , 2016 , 17, 1084-1095	1.4	29
250	A C60-aryne building block: synthesis of a hybrid all-carbon nanostructure. <i>Chemical Communications</i> , 2016 , 52, 6677-80	5.8	33
249	Synthesis and Single-Molecule Conductance Study of Redox-Active Ruthenium Complexes with Pyridyl and Dihydrobenzo[b]thiophene Anchoring Groups. <i>Chemistry - A European Journal</i> , 2016 , 22, 12732-40	4.8	19
248	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

247	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
246	Exploiting the extended Esystem of perylene bisimide for label-free single-molecule sensing. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2101-2106	7.1	12
245	Correlation of breaking forces, conductances and geometries of molecular junctions. <i>Scientific Reports</i> , 2015 , 5, 9002	4.9	40
244	Graphene-porphyrin single-molecule transistors. <i>Nanoscale</i> , 2015 , 7, 13181-5	7.7	78
243	A quantum circuit rule for interference effects in single-molecule electrical junctions. <i>Nature Communications</i> , 2015 , 6, 6389	17.4	135
242	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
241	Increasing the thermopower of crown-ether-bridged anthraquinones. <i>Nanoscale</i> , 2015 , 7, 17338-42	7.7	14
240	Gating of single molecule junction conductance by charge transfer complex formation. <i>Nanoscale</i> , 2015 , 7, 18949-55	7.7	33
239	Quasiparticle recombination in hotspots in superconducting current-carrying nanowires. <i>Physical Review B</i> , 2015 , 92,	3.3	26
238	Oligoyne Molecular Junctions for Efficient Room Temperature Thermoelectric Power Generation. <i>Nano Letters</i> , 2015 , 15, 7467-72	11.5	72
237	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
236	Sensing single molecules with carbonBoron-nitride nanotubes. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10273-10276	7.1	10
235	Interplay between quantum interference and conformational fluctuations in single-molecule break junctions. <i>Nanoscale</i> , 2015 , 7, 1096-101	7.7	19
234	Basic concepts of quantum interference and electron transport in single-molecule electronics. <i>Chemical Society Reviews</i> , 2015 , 44, 875-88	58.5	261
233	Multifunctional semiconductor micro-Hall devices for magnetic, electric, and photo-detection. <i>Applied Physics Letters</i> , 2015 , 107, 233504	3.4	4
232	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
231	Three-State Single-Molecule Naphthalenediimide Switch: Integration of a Pendant Redox Unit for Conductance Tuning. <i>Angewandte Chemie</i> , 2015 , 127, 13790-13793	3.6	8
230	Negative differential electrical resistance of a rotational organic nanomotor. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 2332-7	3	4

229	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
228	Enhanced thermoelectric efficiency of porous silicene nanoribbons. <i>Scientific Reports</i> , 2015 , 5, 9514	4.9	72
227	Enhancing the thermoelectric figure of merit in engineered graphene nanoribbons. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1176-82	3	46
226	Key role of the linker in pyrene-linker-carboxylate surfactants for the efficient aqueous dispersion of multiwalled carbon nanotubes. <i>RSC Advances</i> , 2015 , 5, 95360-95368	3.7	6
225	Tuning thermoelectric properties of graphene/boron nitride heterostructures. <i>Nanotechnology</i> , 2015 , 26, 475401	3.4	18
224	Reversible thermal switching of aqueous dispersibility of multiwalled carbon nanotubes. <i>Chemistry - A European Journal</i> , 2015 , 21, 3891-4	4.8	10
223	Silicene-based DNA nucleobase sensing. <i>Applied Physics Letters</i> , 2014 , 104, 103104	3.4	46
222	A study of planar anchor groups for graphene-based single-molecule electronics. <i>Journal of Chemical Physics</i> , 2014 , 140, 054708	3.9	32
221	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
220	Does a cyclopropane ring enhance the electronic communication in dumbbell-type C ₆₀ dimers?. <i>Journal of Organic Chemistry</i> , 2014 , 79, 4871-7	4.2	9
219	Precursor configurations and post-rupture evolution of Ag-CO-Ag single-molecule junctions. <i>Nanoscale</i> , 2014 , 6, 14784-91	7.7	11
218	Extended conjugation in poly(triarylamine)s: synthesis, structure and impact on field-effect mobility. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6520-6528	7.1	10
217	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
216	Graphene sculptuene nanopores for DNA nucleobase sensing. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 6908-14	3.4	39
215	Hotspot Dynamics in Current Carrying WSi Superconducting Nanowires 2014 ,		1
214	GOLLUM: a next-generation simulation tool for electron, thermal and spin transport. <i>New Journal of Physics</i> , 2014 , 16, 093029	2.9	198
213	Electronic properties of sculpturenes. <i>New Journal of Physics</i> , 2014 , 16, 013060	2.9	6
212	Thermoelectric performance of various benzo-difuran wires. <i>Journal of Chemical Physics</i> , 2014 , 140, 174731	3	3

211	Josephson effects in an alternating current biased transition edge sensor. <i>Applied Physics Letters</i> , 2014 , 105, 162605	3.4	23
210	Electronic properties of linear carbon chains: resolving the controversy. <i>Journal of Chemical Physics</i> , 2014 , 140, 104306	3.9	32
209	Highly-effective gating of single-molecule junctions: an electrochemical approach. <i>Chemical Communications</i> , 2014 , 50, 15975-8	5.8	38
208	Redox control of thermopower and figure of merit in phase-coherent molecular wires. <i>Nanotechnology</i> , 2014 , 25, 205402	3.4	26
207	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
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