

Daniel Gryko

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471
papers

16,634
citations

60
h-index

108
g-index

507
ext. papers

18,949
ext. citations

7
avg, IF

7.54
L-index

#	Paper	IF	Citations
471	Metal-free organocatalysis through explicit hydrogen bonding interactions. <i>Chemical Society Reviews</i> , 2003 , 32, 289-96	58.5	1062
470	London dispersion in molecular chemistry--reconsidering steric effects. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12274-96	16.4	526
469	Comparison of oxidative aromatic coupling and the Scholl reaction. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9900-30	16.4	505
468	From Chemical Topology to Molecular Machines (Nobel Lecture). <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11080-11093	16.4	463
467	Efficient synthesis of meso-substituted corroles in a H ₂ O-MeOH mixture. <i>Journal of Organic Chemistry</i> , 2006 , 71, 3707-17	4.2	331
466	A strategy for constructing photosynthetic models: porphyrin-containing modules assembled around transition metals. <i>Chemical Society Reviews</i> , 1996 , 25, 41	58.5	288
465	Imidazo[1,2-a]pyridines susceptible to excited state intramolecular proton transfer: one-pot synthesis via an Ortoleva-King reaction. <i>Journal of Organic Chemistry</i> , 2012 , 77, 5552-8	4.2	253
464	Diketopyrrolopyrroles: Synthesis, Reactivity, and Optical Properties. <i>Advanced Optical Materials</i> , 2015 , 3, 280-320	8.1	237
463	Evolution of asymmetric organocatalysis: multi- and retrocatalysis. <i>Green Chemistry</i> , 2012 , 14, 1821	10	226
462	Methylhydroxycarbene: tunneling control of a chemical reaction. <i>Science</i> , 2011 , 332, 1300-3	33.3	226
461	Oxidative aromatische Kupplung und Scholl-Reaktion im Vergleich. <i>Angewandte Chemie</i> , 2013 , 125, 10084-10115	10.1	201
460	Photoactive corrole-based arrays. <i>Chemical Society Reviews</i> , 2009 , 38, 1635-46	58.5	173
459	Relative energy computations with approximate density functional theory--a caveat!. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4217-9	16.4	171
458	Recent Advances in the Synthesis of Corroles and Core-Modified Corroles. <i>European Journal of Organic Chemistry</i> , 2002 , 2002, 1735-1743	3.2	170
457	Hydrogen-Bonding Thiourea Organocatalysts: The Privileged 3,5-Bis(trifluoromethyl)phenyl Group. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 5919-5927	3.2	165
456	Corrole-fullerene dyads: formation of long-lived charge-separated states in nonpolar solvents. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14263-72	16.4	165
455	Synthesis of Corroles and Their Heteroanalogs. <i>Chemical Reviews</i> , 2017 , 117, 3102-3137	68.1	164

454	Refined methods for the synthesis of meso-substituted A3- and trans-A2B-corroles. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 350-7	3.9	155
453	Photophysical characterization of free-base corroles, promising chromophores for light energy conversion and singlet oxygen generation. <i>New Journal of Chemistry</i> , 2005 , 29, 1559	3.6	149
452	Expanded coumarins: synthesis, optical properties and applications. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 1421-1446	7.1	145
451	A simple and versatile one-pot synthesis of meso-substituted trans-A2B-corroles. <i>Journal of Organic Chemistry</i> , 2001 , 66, 4267-75	4.2	143
450	Synthesis of extended porphyrins via intramolecular oxidative coupling. <i>Chemical Communications</i> , 2012 , 48, 10069-86	5.8	138
449	Recent advances in the chemistry of corroles and core-modified corroles. <i>Journal of Porphyrins and Phthalocyanines</i> , 2004 , 08, 1091-1105	1.8	134
448	Synthesis of "Porphyrin-linker-Thiol" molecules with diverse linkers for studies of molecular-based information storage. <i>Journal of Organic Chemistry</i> , 2000 , 65, 7345-55	4.2	126
447	Electrochemistry and spectroelectrochemistry of meso-substituted free-base corroles in nonaqueous media: reactions of (Cor)H ₃ , [(Cor)H ₄] ⁺ , and [(Cor)H ₂] ⁻ . <i>Inorganic Chemistry</i> , 2006 , 45, 2251-51	5.1	121
446	Recent advances in the synthesis of indolizines and their expanded analogues. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 7804-28	3.9	119
445	Synthetic Applications of Oxidative Aromatic Coupling-From Biphenols to Nanographenes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2998-3027	16.4	119
444	Von der chemischen Topologie zu molekularen Maschinen (Nobel-Aufsatz). <i>Angewandte Chemie</i> , 2017 , 129, 11228-11242	3.6	112
443	Computational studies on the cyclizations of enediynes, enyne-allenes, and related polyunsaturated systems. <i>Accounts of Chemical Research</i> , 2005 , 38, 29-37	24.3	111
442	Tunneling Control of Chemical Reactions: The Third Reactivity Paradigm. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15276-15283	16.4	97
441	Thiol-Derivatized Porphyrins for Attachment to Electroactive Surfaces. <i>Journal of Organic Chemistry</i> , 1999 , 64, 8635-8647	4.2	97
440	Molecular approach toward information storage based on the redox properties of porphyrins in self-assembled monolayers. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 2359		94
439	A Dual-Catalysis Anion-Binding Approach to the Kinetic Resolution of Amines: Insights into the Mechanism via a Combined Experimental and Computational Study. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5748-58	16.4	92
438	Metal-organic frameworks incorporating copper-complexed rotaxanes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2160-3	16.4	92
437	Adventures in the synthesis of meso-substituted corroles. <i>Journal of Porphyrins and Phthalocyanines</i> , 2008 , 12, 906-917	1.8	91

- 436 Synthesis of thiol-derivatized ferrocene-porphyrins for studies of multibit information storage. *Journal of Organic Chemistry*, **2000**, 65, 7356-62 4.2 87
- 435 London Dispersion Enables the Shortest Intermolecular Hydrocarbon H \cdots H Contact. *Journal of the American Chemical Society*, **2017**, 139, 7428-7431 16.4 85
- 434 A simple, rational synthesis of meso-substituted A2B-corroles. *Chemical Communications*, **2000**, 2243-2244 4.8 85
- 433 Computational Chemistry: The Fate of Current Methods and Future Challenges. *Angewandte Chemie - International Edition*, **2018**, 57, 4170-4176 16.4 85
- 432 Hydrogen-bonded diketopyrrolopyrrole (DPP) pigments as organic semiconductors. *Organic Electronics*, **2014**, 15, 3521-3528 3.5 83
- 431 Symmetry-Breaking Charge Transfer and Hydrogen Bonding: Toward Asymmetrical Photochemistry. *Angewandte Chemie - International Edition*, **2016**, 55, 15624-15628 16.4 81
- 430 Bright, emission tunable fluorescent dyes based on imidazole and β -expanded imidazole. *Journal of Materials Chemistry*, **2012**, 22, 20649 79
- 429 Comparison of Electron-Transfer and Charge-Retention Characteristics of Porphyrin-Containing Self-Assembled Monolayers Designed for Molecular Information Storage. *Journal of Physical Chemistry B*, **2002**, 106, 8639-8648 3.4 78
- 428 Highly efficient ultrafast electron injection from the singlet MLCT excited state of copper(I) diimine complexes to TiO₂ nanoparticles. *Angewandte Chemie - International Edition*, **2012**, 51, 12711-5 16.4 77
- 427 Pyrrolo[3,2-b]pyrroles-From Unprecedented Solvatochromism to Two-Photon Absorption. *Chemistry - A European Journal*, **2015**, 21, 18364-74 4.8 76
- 426 Synthesis of corroles bearing up to three different meso substituents. *Organic Letters*, **2002**, 4, 4491-4 6.2 75
- 425 Study of intermolecular interactions in the corrole matrix by solid-state NMR under 100 kHz MAS and theoretical calculations. *Angewandte Chemie - International Edition*, **2013**, 52, 14108-11 16.4 74
- 424 Reversible O-O bond cleavage and formation between Mn(IV)-peroxo and Mn(V)-oxo corroles. *Journal of the American Chemical Society*, **2010**, 132, 14030-2 16.4 74
- 423 The Tetraarylpyrrolo[3,2-b]pyrroles-From Serendipitous Discovery to Promising Heterocyclic Optoelectronic Materials. *Accounts of Chemical Research*, **2017**, 50, 2334-2345 24.3 73
- 422 Bright, color-tunable fluorescent dyes based on β -expanded diketopyrrolopyrroles. *Organic Letters*, **2012**, 14, 2670-3 6.2 72
- 421 Sizing the role of London dispersion in the dissociation of all-butyl hexaphenylethane. *Chemical Science*, **2017**, 8, 405-410 9.4 70
- 420 Band gap tuning in nanodiamonds: first principle computational studies. *Molecular Physics*, **2009**, 107, 823-830 1.7 68
- 419 Recent Advances in the Synthesis of Hydroporphyrins. *Current Organic Chemistry*, **2007**, 11, 1310-1338 1.7 67

418	Photoinduced energy and electron transfer in 1,8-naphthalimide-corrrole dyads. <i>New Journal of Chemistry</i> , 2007 , 31, 247-259	3.6	66
417	Synthesis and Optical Properties of Tetraaryl-1,4-dihydropyrrolo[3,2-b]pyrroles. <i>Asian Journal of Organic Chemistry</i> , 2013 , 2, 411-415	3	64
416	On-surface synthesis of a nitrogen-embedded buckybowl with inverse Stone-Thrower-Wales topology. <i>Nature Communications</i> , 2018 , 9, 1714	17.4	63
415	Energy- and Electron-Transfer Processes in Corrole-Perylenebisimide-Triphenylamine Array. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 19699-19709	3.8	63
414	Capsule-controlled selectivity of a rhodium hydroformylation catalyst. <i>Nature Communications</i> , 2013 , 4, 2670	17.4	62
413	5-Substituted dipyrranes: synthesis and reactivity. <i>Chemical Society Reviews</i> , 2012 , 41, 3780-9	58.5	62
412	Excited-State Symmetry Breaking in a Quadrupolar Molecule Visualized in Time and Space. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 6029-6034	6.4	61
411	Polar diketopyrrolopyrrole-imidazolium salts as selective probes for staining mitochondria in two-photon fluorescence microscopy. <i>Chemistry - A European Journal</i> , 2015 , 21, 9101-10	4.8	60
410	Strongly emitting fluorophores based on 1-azaperylene scaffold. <i>Journal of Organic Chemistry</i> , 2010 , 75, 1297-300	4.2	60
409	Expanded Ketocoumarins as Efficient, Biocompatible Initiators for Two-Photon-Induced Polymerization. <i>Chemistry of Materials</i> , 2014 , 26, 3175-3184	9.6	58
408	V-shaped bis-coumarins: synthesis and optical properties. <i>Journal of Organic Chemistry</i> , 2014 , 79, 8723-34.2	34.2	58
407	Diverse redox-active molecules bearing O-, S-, or Se-terminated tethers for attachment to silicon in studies of molecular information storage. <i>Journal of Organic Chemistry</i> , 2004 , 69, 1435-43	4.2	58
406	Hybrid metal-organic chalcogenide nanowires with electrically conductive inorganic core through diamondoid-directed assembly. <i>Nature Materials</i> , 2017 , 16, 349-355	27	57
405	Tetraaryl-, pentaaryl-, and hexaaryl-1,4-dihydropyrrolo[3,2-b]pyrroles: synthesis and optical properties. <i>Journal of Organic Chemistry</i> , 2014 , 79, 3119-28	4.2	57
404	Photoinduced Charge Transfer in Porphyrin-Cobaloxime and Corrole-Cobaloxime Hybrids. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1647-1655	3.8	57
403	Palladium-catalyzed 2-arylation of pyrroles. <i>Journal of Organic Chemistry</i> , 2009 , 74, 9517-20	4.2	57
402	Meso-substituted liquid porphyrins. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 904-9	4.5	57
401	Photophysical properties of a new, stable corrole-porphyrin dyad. <i>Inorganica Chimica Acta</i> , 2007 , 360, 803-813	2.7	56

- 400 New and efficient arrays for photoinduced charge separation based on perylene bisimide and corroles. *Chemistry - A European Journal*, **2008**, 14, 169-83 4.8 56
- 399 Straightforward route to trans-A2B-corroles bearing substituents with basic nitrogen atoms. *Journal of Porphyrins and Phthalocyanines*, **2002**, 06, 81-97 1.8 56
- 398 Urea- and Thiourea-Catalyzed Aminolysis of Carbonates. *ChemSusChem*, **2016**, 9, 2269-72 8.3 56
- 397 Two-photon-induced fluorescence in new β -expanded diketopyrrolopyrroles. *Chemistry - A European Journal*, **2014**, 20, 12493-501 4.8 55
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- 395 Nonplanar Butterfly-Shaped β -Expanded Pyrrolopyrroles. *Chemistry - A European Journal*, **2016**, 22, 16478-16488 5 55
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- 388 Oxygenation of alkylzinc complexes with pyrrolylketimate ligand: access to alkylperoxide versus oxo-encapsulated complexes. *Chemical Communications*, **2009**, 215-7 5.8 50
- 387 Sterically controlled mechanochemistry under hydrostatic pressure. *Nature*, **2018**, 554, 505-510 5.4 49
- 386 Modulation of Symmetry-Breaking Intramolecular Charge-Transfer Dynamics Assisted by Pendant Side Chains in β -Linkers in Quadrupolar Diketopyrrolopyrrole Derivatives. *Journal of Physical Chemistry Letters*, **2016**, 7, 3060-6 6.4 48
- 385 Dynamics of Intramolecular Excited State Proton Transfer in Emission Tunable, Highly Luminescent Imidazole Derivatives. *Journal of Physical Chemistry C*, **2013**, 117, 791-803 3.8 48
- 384 Acidic C-H Bond as a Proton Donor in Excited State Intramolecular Proton Transfer Reactions. *Journal of Chemical Theory and Computation*, **2015**, 11, 1046-54 6.4 48
- 383 Investigation of tightly coupled porphyrin arrays comprised of identical monomers for multibit information storage. *Journal of Organic Chemistry*, **2000**, 65, 7371-8 4.2 48

382	Synthesis of thiol-derivatized porphyrin dimers and trimers for studies of architectural effects on multibit information storage. <i>Journal of Organic Chemistry</i> , 2000 , 65, 7363-70	4.2	48
381	Gating That Suppresses Charge Recombination-The Role of Mono-N-Arylated Diketopyrrolopyrrole. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12826-12832	16.4	48
380	Heats of formation of platonic hydrocarbon cages by means of high-level thermochemical procedures. <i>Journal of Computational Chemistry</i> , 2016 , 37, 49-58	3.5	47
379	Trans-A2B-corroles bearing a coumarin moiety--from synthesis to photophysics. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 130-40	4.5	47
378	Synthesis of locked meso-beta-substituted chlorins via 1,3-dipolar cycloaddition. <i>Journal of Organic Chemistry</i> , 2006 , 71, 5942-50	4.2	47
377	Refined Synthesis of meso-Substituted trans-A2B-Corroles Bearing Electron-Withdrawing Groups. <i>Synthesis</i> , 2004 , 2004, 2205-2209	2.9	47
376	Vertical-Substrate MPCVD Epitaxial Nanodiamond Growth. <i>Nano Letters</i> , 2017 , 17, 1489-1495	11.5	46
375	Dipole Effects on Electron Transfer are Enormous. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 12365-12369	16.4	46
374	From Expanded coumarins to Expanded pentacenes. <i>Chemical Communications</i> , 2014 , 50, 9105-8	5.8	46
373	Syntheseanwendungen der oxidativen aromatischen Kupplung von Biphenolen zu Nanographenen. <i>Angewandte Chemie</i> , 2020 , 132, 3020-3050	3.6	45
372	Intramolecular London Dispersion Interaction Effects on Gas-Phase and Solid-State Structures of Diamondoid Dimers. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16696-16707	16.4	44
371	Excited-state intramolecular proton transfer in 2'-(2'-hydroxyphenyl)imidazo[1,2- a]pyridines. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2016 , 28, 116-137	16.4	44
370	Lanthanide corroles: a new class of macrocyclic lanthanide complexes. <i>Chemical Communications</i> , 2013 , 49, 3104-6	5.8	44
369	Probing the Delicate Balance between Pauli Repulsion and London Dispersion with Triphenylmethyl Derivatives. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14421-14432	16.4	43
368	Visible light communication with efficient far-red/near-infrared polymer light-emitting diodes. <i>Light: Science and Applications</i> , 2020 , 9, 70	16.7	42
367	Protonated free-base corroles: acidity, electrochemistry, and spectroelectrochemistry of [(Cor)H4] ⁺ , [(Cor)H5] ²⁺ , and [(Cor)H6] ³⁺ . <i>Inorganic Chemistry</i> , 2007 , 46, 2775-86	5.1	42
366	A silicon-carbonyl complex stable at room temperature. <i>Nature Chemistry</i> , 2020 , 12, 608-614	17.6	42
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- 362 Strategy towards large two-photon absorption cross-sections for diketopyrrolopyrroles. *Journal of Materials Chemistry C*, **2015**, 3, 742-749 7.1 39
- 361 Preparation and Characterization of Parent Phenylphosphinidene and Its Oxidation to Phenyl dioxophosphorane: The Elusive Phosphorus Analogue of Nitrobenzene. *Journal of the American Chemical Society*, **2017**, 139, 5019-5022 16.4 38
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- 357 Synthesis and properties of directly linked corrole-ferrocene systems. *New Journal of Chemistry*, **2007**, 31, 1613 3.6 38
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- 355 Diindolo[2,3-b:2',3'-f]pyrrolo[3,2-b]pyrroles as electron-rich, ladder-type fluorophores: synthesis and optical properties. *Chemistry - an Asian Journal*, **2015**, 10, 212-8 4.5 37
- 354 The Enantioselective Dakin-West Reaction. *Angewandte Chemie - International Edition*, **2016**, 55, 2719-23 16.4 37
- 353 The Self-Association of Graphane Is Driven by London Dispersion and Enhanced Orbital Interactions. *Journal of Chemical Theory and Computation*, **2015**, 11, 1621-30 6.4 36
- 352 1,4-Dihydropyrrolo[3,2-b]pyrrole and its expanded analogues. *Chemistry - an Asian Journal*, **2014**, 9, 3036-45 4.5 36
- 351 Synthesis and linear and nonlinear optical properties of low-melting extended porphyrins. *Journal of Materials Chemistry C*, **2013**, 1, 2044 7.1 36
- 350 Template Synthesis of Linear-Chain Nanodiamonds Inside Carbon Nanotubes from Bridgehead-Halogenated Diamantane Precursors. *Angewandte Chemie - International Edition*, **2015**, 54, 10802-6 16.4 36
- 349 Symmetry Breaking in Pyrrolo[3,2-b]pyrroles: Synthesis, Solvatochromism and Two-photon Absorption. *Chemistry - an Asian Journal*, **2017**, 12, 1736-1748 4.5 35
- 348 Hybrid Group IV Nanophotonic Structures Incorporating Diamond Silicon-Vacancy Color Centers. *Nano Letters*, **2016**, 16, 212-7 11.5 35
- 347 PushBull Acylo-Phosphine Oxides for Two-Photon-Induced Polymerization. *Macromolecules*, **2013**, 46, 7239-7244 5.5 35

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345	Biscoumarin-containing acenes as stable organic semiconductors for photocatalytic oxygen reduction to hydrogen peroxide. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20780-20788	13	34
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343	Tunneling control of chemical reactions: C-H insertion versus H-tunneling in tert-butylhydroxycarbene. <i>Chemical Science</i> , 2013 , 4, 677-684	9.4	34
342	The "non-reaction" of ground-state triplet carbon atoms with water revisited. <i>ChemPhysChem</i> , 2006 , 7, 880-5	3.2	34
341	Synthesis of Exclusively 4-Substituted β -Lactams through the Kinugasa Reaction Utilizing Calcium Carbide. <i>Organic Letters</i> , 2019 , 21, 3746-3749	6.2	33
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331	Solvent polarity effect on intramolecular electron transfer in a corrole-naphthalene bisimide dyad. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 474-83	3.6	32
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