

Michael R Wasielewski

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477 papers	37,046 citations	94 h-index	175 g-index
508 ext. papers	41,299 ext. citations	12.5 avg, IF	7.68 L-index

#	Paper	IF	Citations
477	Photoinduced electron transfer in supramolecular systems for artificial photosynthesis. <i>Chemical Reviews</i> , 1992 , 92, 435-461	68.1	2708
476	Rylene and related diimides for organic electronics. <i>Advanced Materials</i> , 2011 , 23, 268-84	24	1366
475	Self-assembly strategies for integrating light harvesting and charge separation in artificial photosynthetic systems. <i>Accounts of Chemical Research</i> , 2009 , 42, 1910-21	24.3	1094
474	Tuning orbital energetics in arylene diimide semiconductors. materials design for ambient stability of n-type charge transport. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15259-78	16.4	887
473	High-mobility air-stable n-type semiconductors with processing versatility: dicyanoperylene-3,4:9,10-bis(dicarboximides). <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 6363-6	16.4	760
472	Energy, charge, and spin transport in molecules and self-assembled nanostructures inspired by photosynthesis. <i>Journal of Organic Chemistry</i> , 2006 , 71, 5051-66	4.2	575
471	Molecular-wire behaviour in p -phenylenevinylene oligomers. <i>Nature</i> , 1998 , 396, 60-63	50.4	541
470	Distance-dependent electron transfer in DNA hairpins. <i>Science</i> , 1997 , 277, 673-6	33.3	510
469	Excited Doublet States of Electrochemically Generated Aromatic Imide and Diimide Radical Anions. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 6545-6551	2.8	503
468	Dynamics of photoinduced charge transfer and hole transport in synthetic DNA hairpins. <i>Accounts of Chemical Research</i> , 2001 , 34, 159-70	24.3	503
467	Hybrid Dion-Jacobson 2D Lead Iodide Perovskites. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3775-3783	16.4	426
466	White-Light Emission and Structural Distortion in New Corrugated Two-Dimensional Lead Bromide Perovskites. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5210-5215	16.4	385
465	Photophysics of the carotenoids associated with the xanthophyll cycle in photosynthesis. <i>Photosynthesis Research</i> , 1994 , 41, 389-95	3.7	362
464	Charge transport in photofunctional nanoparticles self-assembled from zinc 5,10,15,20-tetrakis(perylene diimide)porphyrin building blocks. <i>Journal of the American Chemical Society</i> , 2002 , 124, 9582-90	16.4	355
463	Making a molecular wire: charge and spin transport through para-phenylene oligomers. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5577-84	16.4	349
462	Importance of Reducing Vapor Atmosphere in the Fabrication of Tin-Based Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 836-842	16.4	340
461	Dependence of rate constants for photoinduced charge separation and dark charge recombination on the free energy of reaction in restricted-distance porphyrin-quinone molecules. <i>Journal of the American Chemical Society</i> , 1985 , 107, 1080-1082	16.4	315

460	Direct measurement of hole transport dynamics in DNA. <i>Nature</i> , 2000 , 406, 51-3	50.4	301
459	Self-assembling hydrogel scaffolds for photocatalytic hydrogen production. <i>Nature Chemistry</i> , 2014 , 6, 964-70	17.6	299
458	Slip-stacked perylenediimides as an alternative strategy for high efficiency nonfullerene acceptors in organic photovoltaics. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16345-56	16.4	290
457	Thin Films and Solar Cells Based on Semiconducting Two-Dimensional Ruddlesden-Popper (CH ₃ (CH ₂) ₃ NH ₃) ₂ (CH ₃ NH ₃) _n SnnI _{3n+1} Perovskites. <i>ACS Energy Letters</i> , 2017 , 2, 982-990	20.1	274
456	Self-assembly of supramolecular light-harvesting arrays from covalent multi-chromophore perylene-3,4:9,10-bis(dicarboximide) building blocks. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8284-94	16.4	269
455	Multistep Photochemical Charge Separation in Rod-like Molecules Based on Aromatic Imides and Diimides. <i>Journal of the American Chemical Society</i> , 1996 , 118, 6767-6777	16.4	260
454	Enhanced photovoltaic performance and stability with a new type of hollow 3D perovskite {en}FASnI. <i>Science Advances</i> , 2017 , 3, e1701293	14.3	258
453	Tunable White-Light Emission in Single-Cation-Templated Three-Layered 2D Perovskites (CHCHNH)PbBrCl. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11956-11963	16.4	254
452	Artificial photosynthesis as a frontier technology for energy sustainability. <i>Energy and Environmental Science</i> , 2013 , 6, 1074	35.4	251
451	Radically enhanced molecular recognition. <i>Nature Chemistry</i> , 2010 , 2, 42-9	17.6	247
450	High spectral resolution of gamma-rays at room temperature by perovskite CsPbBr single crystals. <i>Nature Communications</i> , 2018 , 9, 1609	17.4	246
449	Singlet exciton fission in polycrystalline thin films of a slip-stacked perylenediimide. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14701-12	16.4	246
448	Conformational gating of long distance electron transfer through wire-like bridges in donor-bridge-acceptor molecules. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7877-86	16.4	241
447	Energy and environment policy case for a global project on artificial photosynthesis. <i>Energy and Environmental Science</i> , 2013 , 6, 695	35.4	236
446	Cyanonaphthalene Diimide Semiconductors for Air-Stable, Flexible, and Optically Transparent n-Channel Field-Effect Transistors. <i>Chemistry of Materials</i> , 2007 , 19, 2703-2705	9.6	228
445	Combining light-harvesting and charge separation in a self-assembled artificial photosynthetic system based on perylenediimide chromophores. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12268-9	16.4	228
444	Excited-state symmetry breaking in cofacial and linear dimers of a green perylenediimide chlorophyll analogue leading to ultrafast charge separation. <i>Journal of the American Chemical Society</i> , 2002 , 124, 8530-1	16.4	216
443	Morphology-Performance Relationships in High-Efficiency All-Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1300785	21.8	210

442	Competition between singlet fission and charge separation in solution-processed blend films of 6,13-bis(triisopropylsilylethynyl)pentacene with sterically-encumbered perylene-3,4:9,10-bis(dicarboximide)s. <i>Journal of the American Chemical Society</i> , 2012 , 134, 386-97	16.4	207
441	Excited singlet states of covalently bound, cofacial dimers and trimers of perylene-3,4:9,10-bis(dicarboximide)s. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 2322-30	2.8	207
440	Enabling singlet fission by controlling intramolecular charge transfer in stacked covalent terrylenediimide dimers. <i>Nature Chemistry</i> , 2016 , 8, 1120-1125	17.6	205
439	Photoinduced electron transfer in the solid state: rate vs. free energy dependence in fixed-distance porphyrin-acceptor molecules. <i>Journal of the American Chemical Society</i> , 1991 , 113, 719-721	16.4	205
438	Intersystem crossing mediated by photoinduced intramolecular charge transfer: julolidine-anthracene molecules with perpendicular pi systems. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 4194-201	2.8	201
437	Quantum interference in acyclic systems: conductance of cross-conjugated molecules. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17301-8	16.4	196
436	MetalOrganic Framework Thin Films Composed of Free-Standing Acicular Nanorods Exhibiting Reversible Electrochromism. <i>Chemistry of Materials</i> , 2013 , 25, 5012-5017	9.6	194
435	Enzyme encapsulation in metalOrganic frameworks for applications in catalysis. <i>CrystEngComm</i> , 2017 , 19, 4082-4091	3.3	191
434	Effects of Arylene Diimide Thin Film Growth Conditions on n-Channel OFET Performance. <i>Advanced Functional Materials</i> , 2008 , 18, 1329-1339	15.6	191
433	Role of Organic Counterion in Lead- and Tin-Based Two-Dimensional Semiconducting Iodide Perovskites and Application in Planar Solar Cells. <i>Chemistry of Materials</i> , 2016 , 28, 7781-7792	9.6	189
432	Belt-shaped Systems: relating geometry to electronic structure in a six-porphyrin nanoring. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17262-73	16.4	181
431	Carrier Diffusion Lengths of over 500 nm in Lead-Free Perovskite CHNHSeI Films. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14750-14755	16.4	174
430	TiO-ZnS Cascade Electron Transport Layer for Efficient Formamidinium Tin Iodide Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14998-15003	16.4	171
429	Electron Transfer Rates in Bridged Molecular Systems: A Phenomenological Approach to Relaxation. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 6158-6164	2.8	169
428	Efficient Lead-Free Solar Cells Based on Hollow {en}MASnI Perovskites. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14800-14806	16.4	168
427	Enhanced Efficiency of Hot-Cast Large-Area Planar Perovskite Solar Cells/Modules Having Controlled Chloride Incorporation. <i>Advanced Energy Materials</i> , 2017 , 7, 1601660	21.8	164
426	Driving Force Dependence of Electron Transfer Dynamics in Synthetic DNA Hairpins. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12346-12351	16.4	162
425	Highly stable tetrathiafulvalene radical dimers in [3]catenanes. <i>Nature Chemistry</i> , 2010 , 2, 870-9	17.6	159

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- 423 Dynamics of Photoinduced Charge Separation and Charge Recombination in Synthetic DNA Hairpins with Stilbenedicarboxamide Linkers. *Journal of the American Chemical Society*, **2000**, 122, 2889-2902 16.4 151
- 422 Ring-fusion as a perylenediimide dimer design concept for high-performance non-fullerene organic photovoltaic acceptors. *Chemical Science*, **2016**, 7, 3543-3555 9.4 149
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- 420 Supramolecular Explorations: Exhibiting the Extent of Extended Cationic Cyclophanes. *Accounts of Chemical Research*, **2016**, 49, 262-73 24.3 144
- 419 Electron sharing and anion- π -recognition in molecular triangular prisms. *Angewandte Chemie - International Edition*, **2013**, 52, 13100-4 16.4 144
- 418 Unified model for singlet fission within a non-conjugated covalent pentacene dimer. *Nature Communications*, **2017**, 8, 15171 17.4 143
- 417 Dopant-Free Hole Transporting Polymers for High Efficiency, Environmentally Stable Perovskite Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1600502 21.8 141
- 416 A radically configurable six-state compound. *Science*, **2013**, 339, 429-33 33.3 140
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- 408 Controlling electron transfer in donor-bridge-acceptor molecules using cross-conjugated bridges. *Journal of the American Chemical Society*, **2010**, 132, 15427-34 16.4 130
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404	Complexation of polyoxometalates with cyclodextrins. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4111-8	16.4	118
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402	Picosecond Molecular Switch Based on Bidirectional Inhibition of Photoinduced Electron Transfer Using Photogenerated Electric Fields. <i>Journal of the American Chemical Society</i> , 1998 , 120, 5118-5119	16.4	114
401	Mechanically stabilized tetrathiafulvalene radical dimers. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4538-47	16.4	110
400	Ultrafast conformational dynamics of electron transfer in ExBox4+?perylene. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 12438-48	2.8	109
399	Dynamics and energetics of single-step hole transport in DNA hairpins. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4850-61	16.4	109
398	Ultrafast photodriven intramolecular electron transfer from an iridium-based water-oxidation catalyst to perylene diimide derivatives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15651-6	11.5	108
397	Structure and Photoinduced Electron Transfer in Exceptionally Stable Synthetic DNA Hairpins with Stilbenediether Linkers. <i>Journal of the American Chemical Society</i> , 1999 , 121, 9905-9906	16.4	108
396	Direct Observation of a Charge-Transfer State Preceding High-Yield Singlet Fission in Terrylenediimide Thin Films. <i>Journal of the American Chemical Society</i> , 2017 , 139, 663-671	16.4	107
395	Ultrafast intersystem crossing and spin dynamics of photoexcited perylene-3,4:9,10-bis(dicarboximide) covalently linked to a nitroxide radical at fixed distances. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3700-12	16.4	105
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393	Photoinitiated charge transport through pi-stacked electron conduits in supramolecular ordered assemblies of donor-acceptor triads. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11919-29	16.4	104
392	Geometry and electronic coupling in perylenediimide stacks: mapping structure-charge transport relationships. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1738-9	16.4	103
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390	Effects of Crystal Morphology on Singlet Exciton Fission in Diketopyrrolopyrrole Thin Films. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 1357-66	3.4	100
389	Energy flow dynamics within cofacial and slip-stacked perylene-3,4-dicarboximide dimer models of aggregates. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14912-23	16.4	100

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380	Toward an n-type molecular wire: electron hopping within linearly linked perylenediimide oligomers. <i>Journal of the American Chemical Society</i> , 2009 , 131, 8952-7	16.4	90
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377	Charge-transfer and spin dynamics in DNA hairpin conjugates with perylenediimide as a base-pair surrogate. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13945-55	16.4	88
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- 368 Dynamics and Equilibria for Oxidation of G, GG, and GGG Sequences in DNA Hairpins. *Journal of the American Chemical Society*, **2000**, 122, 12037-12038 16.4 82
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- 366 Nanoscale Chemical Imaging of a Dynamic Molecular Phase Boundary with Ultrahigh Vacuum Tip-Enhanced Raman Spectroscopy. *Nano Letters*, **2016**, 16, 3898-904 11.5 81
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