

Wallace Wh Wong

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.

113
papers

3,538
citations

33
h-index

56
g-index

123
ext. papers

3,936
ext. citations

6.9
avg, IF

5.23
L-index

#	Paper	IF	Citations
113	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. <i>Joule</i> , 2022 , 6, 8-15	27.8	14
112	Simulations of Luminescent Solar Concentrator Bifacial Photovoltaic Mosaic Devices Containing Four Different Organic Luminophores. <i>IEEE Journal of Photovoltaics</i> , 2022 , 1-7	3.7	4
111	Unusual Alternating Crystallization-Induced Emission Enhancement Behavior in Nonconjugated P-Phenylalkyl Tropylium Salts. <i>Journal of the American Chemical Society</i> , 2021 , 143, 20384-20394	16.4	3
110	Detection of Urinary Albumin Using a "Turn-on" Fluorescent Probe with Aggregation-Induced Emission Characteristics. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 1245-1252	4.5	10
109	Synthesis and Solvatochromic Behavior of Zwitterionic Donor-Bridge-Acceptor Systems with Oligo(p-phenylene) Spacers. <i>Organic Materials</i> , 2021 , 03, 103-118	1.9	1
108	Detection of Halomethanes Using Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 14546-14648	46.1	48
107	The performance of conjugated polymers as emitters for triplet-triplet annihilation upconversion. <i>Materials Advances</i> , 2021 , 2, 2031-2035	3.3	5
106	Pyridine End-Capped Polymer to Stabilize Organic Nanoparticle Dispersions for Solar Cell Fabrication through Reversible Pyridinium Salt Formation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 36044-36052	9.5	2
105	Revealing the influence of steric bulk on the triplet-triplet annihilation upconversion performance of conjugated polymers. <i>Scientific Reports</i> , 2021 , 11, 19585	4.9	2
104	Application of Triplet-Triplet Annihilation Upconversion in Organic Optoelectronic Devices: Advances and Perspectives. <i>Advanced Materials</i> , 2021 , 33, e2100704	24	15
103	Organic polariton lasing with molecularly isolated perylene diimides. <i>Applied Physics Letters</i> , 2020 , 117, 041103	3.4	5
102	Optimising molecular rotors to AIE fluorophores for mitochondria uptake and retention. <i>Chemical Communications</i> , 2020 , 56, 14853-14856	5.8	10
101	Competitive Triplet Formation and Recombination in Crystalline Films of Perylene diimide Derivatives: Implications for Singlet Fission. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11574-11585	3.8	8
100	A luminescent solar concentrator ray tracing simulator with a graphical user interface: features and applications. <i>Methods and Applications in Fluorescence</i> , 2020 , 8, 037001	3.1	6
99	FRET-enhanced photoluminescence of perylene diimides by combining molecular aggregation and insulation. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8953-8961	7.1	6
98	Simple improvements to Gilch synthesis and molecular weight modulation of MEH-PPV. <i>Polymer Chemistry</i> , 2020 , 11, 2831-2837	4.9	3
97	Bilirubin analogues as model compounds for exciton coupling. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 15567-15572	3.6	3

96	Triplet fusion upconversion using sterically protected 9,10-diphenylanthracene as the emitter. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 6300-6307	3.6	9
95	Theoretical Aspects of Iterative Coupling for Linear Oligomers and Polymers. <i>Macromolecular Theory and Simulations</i> , 2020 , 29, 1900048	1.5	
94	A Molecular Chameleon for Mapping Subcellular Polarity in an Unfolded Proteome Environment. <i>Angewandte Chemie</i> , 2020 , 132, 10215-10221	3.6	8
93	A Molecular Chameleon for Mapping Subcellular Polarity in an Unfolded Proteome Environment. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10129-10135	16.4	40
92	Revealing the Interfacial Photoreduction of MoO ₃ with P3HT from the Molecular Weight-Dependent Burn-In Degradation of P3HT:PC61BM Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9714-9723	6.1	5
91	Molecular doped organic semiconductor crystals for optoelectronic device applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 14996-15008	7.1	11
90	Tetrabenzo[5.7]fulvalene: a forgotten aggregation induced-emission luminogen. <i>Chemical Communications</i> , 2019 , 55, 11591-11594	5.8	9
89	Tetraphenylethene 9,10-Diphenylanthracene Derivatives - Synthesis and Photophysical Properties. <i>ChemPlusChem</i> , 2019 , 84, 746-753	2.8	11
88	Highly Efficient Luminescent Solar Concentrators by Selective Alignment of Donor-Emitter Fluorophores. <i>Chemistry of Materials</i> , 2019 , 31, 3001-3008	9.6	12
87	A Maleimide-functionalized Tetraphenylethene for Measuring and Imaging Unfolded Proteins in Cells. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 904-909	4.5	22
86	Molecularly isolated perylene diimides enable both strong exciton-photon coupling and high photoluminescence quantum yield. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2954-2960	7.1	13
85	High-Performance Large-Area Luminescence Solar Concentrator Incorporating a Donor-Emitter Fluorophore System. <i>ACS Energy Letters</i> , 2019 , 4, 1839-1844	20.1	21
84	Intramolecular Versus Intermolecular Triplet Fusion in Multichromophoric Photochemical Upconversion. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20181-20187	3.8	29
83	Aggregation-Induced Emitters in Light Harvesting 2019 , 479-504		1
82	Aggregation-induced emission-mediated spectral downconversion in luminescent solar concentrators. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 615-619	7.8	30
81	A water-soluble, AIE-active polyelectrolyte for conventional and fluorescence lifetime imaging of mouse neuroblastoma neuro-2A cells. <i>Journal of Polymer Science Part A</i> , 2018 , 56, 672-680	2.5	5
80	Exciton Dynamics of Photoexcited Pendant Porphyrin Polymers in Solution and in Thin Films. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 9605-9614	2.8	4
79	Amine-Substituted Diazocine Derivatives: Synthesis, Structure, and Photophysical Properties. <i>Helvetica Chimica Acta</i> , 2018 , 101, e1800146	2	2

78	Manipulating active layer morphology of molecular donor/polymer acceptor based organic solar cells through ternary blends. <i>Science China Chemistry</i> , 2018 , 61, 1025-1033	7.9	16
77	A Green Route to Conjugated Polyelectrolyte Interlayers for High-Performance Solar Cells. <i>Angewandte Chemie</i> , 2017 , 129, 8551-8554	3.6	10
76	A Green Route to Conjugated Polyelectrolyte Interlayers for High-Performance Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8431-8434	16.4	28
75	AIE conjugated polyelectrolytes based on tetraphenylethene for efficient fluorescence imaging and lifetime imaging of living cells. <i>Polymer Chemistry</i> , 2017 , 8, 3862-3866	4.9	23
74	Emissive Molecular Aggregates and Energy Migration in Luminescent Solar Concentrators. <i>Accounts of Chemical Research</i> , 2017 , 50, 49-57	24.3	86
73	Determinants of the efficiency of photon upconversion by triplet-triplet annihilation in the solid state: zinc porphyrin derivatives in PVA. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 23471-23482	3.6	15
72	Highly Fluorescent Molecularly Insulated Perylene Diimides: Effect of Concentration on Photophysical Properties. <i>Chemistry of Materials</i> , 2017 , 29, 8395-8403	9.6	83
71	Highly Fluorescent Pyridinium Betaines for Light Harvesting. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13882-13886	16.4	15
70	Hoch fluoreszierende Pyridiniumbetaine für die Lichtsammlung. <i>Angewandte Chemie</i> , 2017 , 129, 14070-14074	16.4	2
69	The synthesis and purification of amphiphilic conjugated donor-acceptor block copolymers. <i>Polymer Journal</i> , 2017 , 49, 155-161	2.7	5
68	Energy Migration in Organic Solar Concentrators with a Molecularly Insulated Perylene Diimide. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 12952-12958	3.8	48
67	Controlled Synthesis of Well-Defined Semiconducting Brush Polymers. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 403-413	2.6	8
66	Fullerene peapod nanoparticles as an organic semiconductor-electrode interface layer. <i>Chemical Communications</i> , 2016 , 52, 3356-9	5.8	16
65	Plasma deposition of organic polymer films for solar cell applications. <i>Organic Electronics</i> , 2016 , 32, 78-83	3.5	13
64	Separation and identification of indene-C70 bisadduct isomers. <i>Beilstein Journal of Organic Chemistry</i> , 2016 , 12, 903-11	2.5	5
63	High performance p-type molecular electron donors for OPV applications via alkylthiophene catenation chromophore extension. <i>Beilstein Journal of Organic Chemistry</i> , 2016 , 12, 2298-2314	2.5	21
62	Development of a High-Performance Donor-Acceptor Conjugated Polymer: Synergy in Materials and Device Optimization. <i>Chemistry of Materials</i> , 2016 , 28, 3481-3487	9.6	32
61	Morphology changes in bulk donor-acceptor poly(benzodithiophene-benzotriazole) after post-treatment. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 2327-2334	2.6	1

60	Optically monitored spray coating system for the controlled deposition of the photoactive layer in organic solar cells. <i>Applied Physics Letters</i> , 2015 , 106, 033302	3.4	16
59	Electroactive and Photoactive Poly[Isoindigo-alt-EDOT] Synthesized Using Direct (Hetero)Arylation Polymerization in Batch and in Continuous Flow. <i>Chemistry of Materials</i> , 2015 , 27, 2137-2143	9.6	66
58	Enabling high-mobility, ambipolar charge-transport in a DPP-benzotriazole copolymer by side-chain engineering. <i>Chemical Science</i> , 2015 , 6, 6949-6960	9.4	81
57	Regioselective synthesis of fullerene multiadducts via tether-directed 1,3-dipolar cycloaddition. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 10505-10	3.9	10
56	Organic solar cells using a high-molecular-weight benzodithiophene-benzothiadiazole copolymer with an efficiency of 9.4%. <i>Advanced Materials</i> , 2015 , 27, 702-5	24	176
55	Bulk-Heterojunction Organic Solar Cells Based on Benzobisthiadiazole Semiconducting Polymers. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2015 , 28, 385-391	0.7	9
54	Organic Photovoltaic Materials--Design, Synthesis and Scale-Up. <i>Chemical Record</i> , 2015 , 15, 1006-20	6.6	5
53	A Transparent Planar Concentrator Using Aggregates of gem-Pyrene Ethenes. <i>Advanced Energy Materials</i> , 2015 , 5, 1500818	21.8	23
52	One-pot selective synthesis of a fullerene bisadduct for organic solar cell applications. <i>Chemical Communications</i> , 2015 , 51, 9837-40	5.8	19
51	Effect of molecular weight on the properties and organic solar cell device performance of a donor-acceptor conjugated polymer. <i>Polymer Chemistry</i> , 2015 , 6, 2312-2318	4.9	58
50	A molecular nematic liquid crystalline material for high-performance organic photovoltaics. <i>Nature Communications</i> , 2015 , 6, 6013	17.4	455
49	Hydrogen bonding in bulk heterojunction solar cells: a case study. <i>Scientific Reports</i> , 2014 , 4, 5701	4.9	21
48	Concentrating aggregation-induced fluorescence in planar waveguides: a proof-of-principle. <i>Scientific Reports</i> , 2014 , 4, 4635	4.9	69
47	Thiazolyl substituted benzodithiophene copolymers: synthesis, properties and photovoltaic applications. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1306-1313	7.1	21
46	Benzotriazole-based donor-acceptor conjugated polymers with a broad absorption in the visible range. <i>Polymer Chemistry</i> , 2014 , 5, 1258-1263	4.9	24
45	Efficient light harvesting of a luminescent solar concentrator using excitation energy transfer from an aggregation-induced emitter. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25358-63	3.6	52
44	The role of solvent vapor annealing in highly efficient air-processed small molecule solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9048	13	120
43	Morphology change and improved efficiency in organic photovoltaics via hexa-peri-hexabenzocoronene templates. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8824-35	9.5	17

42	Synthesis and photovoltaic properties of thieno[3,2-b]thiophenyl substituted benzo[1,2-b:4,5-b']dithiophene copolymers. <i>Polymer Chemistry</i> , 2014 , 5, 6710-6717	4.9	10
41	Single Isomer of Indene-C70 Bisadduct Isolation and Performance in Bulk Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2014 , 26, 1686-1689	9.6	49
40	Organic photovoltaic modules fabricated by an industrial gravure printing proofer. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 109, 47-55	6.4	97
39	Photophysics and aggregation effects of a triphenylamine-based dye sensitizer on metal-oxide nanoparticles suspended in an ion trap. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 20326-32	3.6	13
38	Bulk heterojunction nanomorphology of fluorenyl hexa-peri-hexabenzocoronene-fullerene blend films. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11554-62	9.5	12
37	Polythiophene/erylene diimide heterojunction field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2433	7.1	32
36	Continuous Flow Synthesis of Organic Electronic Materials [Case Studies in Methodology Translation and Scale-up. <i>Australian Journal of Chemistry</i> , 2013 , 66, 151	1.2	20
35	Electron deficient conjugated polymers based on benzotriazole. <i>Polymer Chemistry</i> , 2013 , 4, 1077-1083	4.9	35
34	Semi-perfluoroalkyl polyfluorene with varying fluorine content: synthesis and photophysical properties. <i>Polymer Chemistry</i> , 2013 , 4, 5291	4.9	8
33	Controlled synthesis of poly(3-hexylthiophene) in continuous flow. <i>Beilstein Journal of Organic Chemistry</i> , 2013 , 9, 1492-500	2.5	24
32	High-performance polymer solar cells with a conjugated zwitterion by solution processing or thermal deposition as the electron-collection interlayer. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24155		69
31	Correlation of charge extraction properties and short circuit current in various organic binary and ternary blend photovoltaic devices. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 108, 515-520	2.6	4
30	Continuous flow synthesis of conjugated polymers. <i>Chemical Communications</i> , 2012 , 48, 1598-600	5.8	39
29	Liquid crystalline hexa-peri-hexabenzocoronene-diketopyrrolopyrrole organic dyes for photovoltaic applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21131		48
28	Synthesis of electron-poor hexa-peri-hexabenzocoronenes. <i>Chemical Communications</i> , 2012 , 48, 8066-8	5.8	39
27	Solution Processable Monosubstituted Hexa-Peri-Hexabenzocoronene Self-Assembling Dyes. <i>Advanced Functional Materials</i> , 2012 , 22, 2015-2026	15.6	13
26	Hexa-peri-hexabenzocoronene in organic electronics. <i>Pure and Applied Chemistry</i> , 2012 , 84, 1047-1067	2.1	68
25	Orthogonal processing and patterning enabled by highly fluorinated light-emitting polymers. <i>Advanced Materials</i> , 2011 , 23, 735-9	24	35

24	Fluorenyl hexa-peri-hexabenzocoronene-dendritic oligothiophene hybrid materials: synthesis, photophysical properties, self-association behaviour and device performance. <i>Chemistry - A European Journal</i> , 2011 , 17, 5549-60	4.8	25
23	Continuous flow synthesis of fullerene derivatives. <i>Journal of Organic Chemistry</i> , 2011 , 76, 3551-6	4.2	48
22	Polycyclic aromatic hydrocarbons for organic photovoltaics 2011 ,		1
21	A porphyrin-hexa-peri-hexabenzocoronene-porphyrin triad: synthesis, photophysical properties and performance in a photovoltaic device. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7005		53
20	Ambipolar hexa-peri-hexabenzocoronene-fullerene hybrid materials. <i>Organic Letters</i> , 2010 , 12, 5000-3	6.2	25
19	Self-Assembling Thiophene Dendrimers with a Hexa-peri-hexabenzocoronene Core: Synthesis, Characterization and Performance in Bulk Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2010 , 22, 457-466	9.6	106
18	Solution Processable Fluorenyl Hexa-peri-hexabenzocoronenes in Organic Field-Effect Transistors and Solar Cells. <i>Advanced Functional Materials</i> , 2010 , 20, 927-938	15.6	100
17	The effect of molecule size and shape on free charge generation, transport and recombination in all-thiophene dendrimer:fullerene bulk heterojunctions. <i>Organic Electronics</i> , 2010 , 11, 573-582	3.5	24
16	Synthesis, photophysical, and device properties of novel dendrimers based on a fluorene-hexabenzocoronene (FHBC) core. <i>Organic Letters</i> , 2009 , 11, 975-8	6.2	43
15	Acid-diffusion behaviour in organic thin films and its effect on patterning. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2986		16
14	Silicon Analogues of Polyfluorene as Materials for Organic Electronics. <i>Australian Journal of Chemistry</i> , 2009 , 62, 393	1.2	63
13	Poly(dibenzosilole)s 2008 , 85-98		3
12	Regio- and diastereoselective synthesis of bis- and tetrakisadducts of C70 by directed remote functionalization using Tröger base tethers. <i>Chemistry - A European Journal</i> , 2006 , 12, 3463-71	4.8	37
11	Ditopic redox-active polyferrocenyl zinc(II) dithiocarbamate macrocyclic receptors: synthesis, coordination and electrochemical recognition properties. <i>Dalton Transactions</i> , 2005 , 774-81	4.3	56
10	Dinuclear zinc(II) dithiocarbamate macrocycles: ditopic receptors for a variety of guest molecules. <i>Dalton Transactions</i> , 2005 , 359-64	4.3	47
9	Heteropolymetallic copper(II)-gold(III) dithiocarbamate [2]catenanes via magic ring synthesis. <i>Chemical Communications</i> , 2005 , 2214-6	5.8	66
8	Tetrakis(imidazolium) macrocyclic receptors for anion binding. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 4201-8	3.9	91
7	Sensing, Templatation and Self-Assembly by Macrocyclic Ligand Systems 2005 , 105-119		1

6	Acyclic and macrocyclic transition metal dithiocarbamate complexes containing imidazolium moieties for anion binding. <i>Polyhedron</i> , 2004 , 23, 2821-2829	2.7	31
5	Self-assembled xanthate-transition metal polyether macrocycles and cryptands. <i>Polyhedron</i> , 2003 , 22, 795-801	2.7	6
4	Metal-directed self-assembly of bimetallic dithiocarbamate transition metal cryptands and their binding capabilities. <i>Chemical Communications</i> , 2003 , 2408-9	5.8	66
3	Limitations of conjugated polymers as emitters in triplet-triplet annihilation upconversion. <i>Materials Advances</i> ,	3.3	2
2	Continuous Flow Synthesis of Conjugated Polymers and Carbon Materials 159-181		1
1	Measured power conversion efficiencies of bifacial luminescent solar concentrator photovoltaic devices of the mosaic series. <i>Progress in Photovoltaics: Research and Applications</i> ,	6.8	4