

Wallace Wh Wong

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1020293/wallace-wh-wong-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	A molecular nematic liquid crystalline material for high-performance organic photovoltaics. <i>Nature Communications</i> , 2015 , 6, 6013	17.4	455
112	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
111	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
110	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
109	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
108	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
107	Tetrakis(imidazolium) macrocyclic receptors for anion binding. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 4201-8	3.9	91
106	Emissive Molecular Aggregates and Energy Migration in Luminescent Solar Concentrators. <i>Accounts of Chemical Research</i> , 2017 , 50, 49-57	24.3	86
105	Highly Fluorescent Molecularly Insulated Perylene Diimides: Effect of Concentration on Photophysical Properties. <i>Chemistry of Materials</i> , 2017 , 29, 8395-8403	9.6	83
104	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
103	Concentrating aggregation-induced fluorescence in planar waveguides: a proof-of-principle. <i>Scientific Reports</i> , 2014 , 4, 4635	4.9	69
102	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
101	Hexa-peri-hexabenzocoronene in organic electronics. <i>Pure and Applied Chemistry</i> , 2012 , 84, 1047-1067	2.1	68
100	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
99	Heteropolymetallic copper(II)-gold(III) dithiocarbamate [2]catenanes via magic ring synthesis. <i>Chemical Communications</i> , 2005 , 2214-6	5.8	66
98	Metal-directed self-assembly of bimetallic dithiocarbamate transition metal cryptands and their binding capabilities. <i>Chemical Communications</i> , 2003 , 2408-9	5.8	66
97	Silicon Analogues of Polyfluorene as Materials for Organic Electronics. <i>Australian Journal of Chemistry</i> , 2009 , 62, 393	1.2	63

96	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
95	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
94	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
93	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
92	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
91	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
90	Liquid crystalline hexa-peri-hexabenzocoronene-diketopyrrolopyrrole organic dyes for photovoltaic applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21131		48
89	Continuous flow synthesis of fullerene derivatives. <i>Journal of Organic Chemistry</i> , 2011 , 76, 3551-6	4.2	48
88	Dinuclear zinc(II) dithiocarbamate macrocycles: ditopic receptors for a variety of guest molecules. <i>Dalton Transactions</i> , 2005 , 359-64	4.3	47
87	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
86	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
85	Continuous flow synthesis of conjugated polymers. <i>Chemical Communications</i> , 2012 , 48, 1598-600	5.8	39
84	Synthesis of electron-poor hexa-peri-hexabenzocoronenes. <i>Chemical Communications</i> , 2012 , 48, 8066-8	5.8	39
83	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
82	Electron deficient conjugated polymers based on benzotriazole. <i>Polymer Chemistry</i> , 2013 , 4, 1077-1083	4.9	35
81	Orthogonal processing and patterning enabled by highly fluorinated light-emitting polymers. <i>Advanced Materials</i> , 2011 , 23, 735-9	24	35
80	Polythiophene-perylene diimide heterojunction field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2433	7.1	32
79	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

78	Acyclic and macrocyclic transition metal dithiocarbamate complexes containing imidazolium moieties for anion binding. <i>Polyhedron</i> , 2004 , 23, 2821-2829	2.7	31
77	Aggregation-induced emission-mediated spectral downconversion in luminescent solar concentrators. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 615-619	7.8	30
76	Intramolecular Versus Intermolecular Triplet Fusion in Multichromophoric Photochemical Upconversion. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20181-20187	3.8	29
75	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
74	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
73	Ambipolar hexa-peri-hexabenzocoronene-fullerene hybrid materials. <i>Organic Letters</i> , 2010 , 12, 5000-3	6.2	25
72	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
71	Controlled synthesis of poly(3-hexylthiophene) in continuous flow. <i>Beilstein Journal of Organic Chemistry</i> , 2013 , 9, 1492-500	2.5	24
70	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
69	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
68	A Transparent Planar Concentrator Using Aggregates of gem-Pyrene Ethenes. <i>Advanced Energy Materials</i> , 2015 , 5, 1500818	21.8	23
67	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
66	Hydrogen bonding in bulk heterojunction solar cells: a case study. <i>Scientific Reports</i> , 2014 , 4, 5701	4.9	21
65	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
64	Thiazolyl substituted benzodithiophene copolymers: synthesis, properties and photovoltaic applications. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1306-1313	7.1	21
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	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
61	One-pot selective synthesis of a fullerene bisadduct for organic solar cell applications. <i>Chemical Communications</i> , 2015 , 51, 9837-40	5.8	19

60	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
59	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
58	Fullerene peapod nanoparticles as an organic semiconductor-electrode interface layer. <i>Chemical Communications</i> , 2016 , 52, 3356-9	5.8	16
57	Acid-diffusion behaviour in organic thin films and its effect on patterning. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2986		16
56	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
55	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
54	Highly Fluorescent Pyridinium Betaines for Light Harvesting. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13882-13886	16.4	15
53	Application of Triplet-Triplet Annihilation Upconversion in Organic Optoelectronic Devices: Advances and Perspectives. <i>Advanced Materials</i> , 2021 , 33, e2100704	24	15
52	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. <i>Joule</i> , 2022 , 6, 8-15	27.8	14
51	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
50	Plasma deposition of organic polymer films for solar cell applications. <i>Organic Electronics</i> , 2016 , 32, 78-83	8.5	13
49	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
48	Solution Processable Monosubstituted Hexa-Peri-Hexabenzocoronene Self-Assembling Dyes. <i>Advanced Functional Materials</i> , 2012 , 22, 2015-2026	15.6	13
47	Highly Efficient Luminescent Solar Concentrators by Selective Alignment of Donor-Emitter Fluorophores. <i>Chemistry of Materials</i> , 2019 , 31, 3001-3008	9.6	12
46	Bulk heterojunction nanomorphology of fluorenyl hexa-peri-hexabenzocoronene-fullerene blend films. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11554-62	9.5	12
45	Tetraphenylethene 9,10-Diphenylanthracene Derivatives - Synthesis and Photophysical Properties. <i>ChemPlusChem</i> , 2019 , 84, 746-753	2.8	11
44	Molecular doped organic semiconductor crystals for optoelectronic device applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 14996-15008	7.1	11
43	A Green Route to Conjugated Polyelectrolyte Interlayers for High-Performance Solar Cells. <i>Angewandte Chemie</i> , 2017 , 129, 8551-8554	3.6	10

42	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
41	Optimising molecular rotors to AIE fluorophores for mitochondria uptake and retention. <i>Chemical Communications</i> , 2020 , 56, 14853-14856	5.8	10
40	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
39	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
38	Tetrabenz[5.7]fulvalene: a forgotten aggregation induced-emission luminogen. <i>Chemical Communications</i> , 2019 , 55, 11591-11594	5.8	9
37	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
36	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
35	Competitive Triplet Formation and Recombination in Crystalline Films of Perylenediimide Derivatives: Implications for Singlet Fission. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11574-11585	3.8	8
34	Controlled Synthesis of Well-Defined Semiconducting Brush Polymers. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 403-413	2.6	8
33	Semi-perfluoroalkyl polyfluorene with varying fluorine content: synthesis and photophysical properties. <i>Polymer Chemistry</i> , 2013 , 4, 5291	4.9	8
32	A Molecular Chameleon for Mapping Subcellular Polarity in an Unfolded Proteome Environment. <i>Angewandte Chemie</i> , 2020 , 132, 10215-10221	3.6	8
31	Detection of Halomethanes Using Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 14546-14648	4.6	8
30	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
29	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
28	Self-assembled xanthate-transition metal polyether macrocycles and cryptands. <i>Polyhedron</i> , 2003 , 22, 795-801	2.7	6
27	Organic polariton lasing with molecularly isolated perylene diimides. <i>Applied Physics Letters</i> , 2020 , 117, 041103	3.4	5
26	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
25	The synthesis and purification of amphiphilic conjugated donor-acceptor block copolymers. <i>Polymer Journal</i> , 2017 , 49, 155-161	2.7	5

24	Organic Photovoltaic Materials--Design, Synthesis and Scale-Up. <i>Chemical Record</i> , 2015 , 15, 1006-20	6.6	5
23	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
22	Separation and identification of indene-C70 bisadduct isomers. <i>Beilstein Journal of Organic Chemistry</i> , 2016 , 12, 903-11	2.5	5
21	The performance of conjugated polymers as emitters for triplet-triplet annihilation upconversion. <i>Materials Advances</i> , 2021 , 2, 2031-2035	3.3	5
20	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
19	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
18	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
17	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
16	Simple improvements to Gilch synthesis and molecular weight modulation of MEH-PPV. <i>Polymer Chemistry</i> , 2020 , 11, 2831-2837	4.9	3
15	Bilirubin analogues as model compounds for exciton coupling. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 15567-15572	3.6	3
14	Poly(dibenzosilole)s 2008 , 85-98		3
13	Unusual Alternating Crystallization-Induced Emission Enhancement Behavior in Nonconjugated Phenylalkyl Tropylium Salts. <i>Journal of the American Chemical Society</i> , 2021 , 143, 20384-20394	16.4	3
12	Hoch fluoreszierende Pyridiniumbetaine für die Lichtsammlung. <i>Angewandte Chemie</i> , 2017 , 129, 14070-14074	3.0	2
11	Limitations of conjugated polymers as emitters in triplet-triplet annihilation upconversion. <i>Materials Advances</i> ,	3.3	2
10	Amine-Substituted Diazocine Derivatives Synthesis, Structure, and Photophysical Properties. <i>Helvetica Chimica Acta</i> , 2018 , 101, e1800146	2	2
9	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
8	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
7	Polycyclic aromatic hydrocarbons for organic photovoltaics 2011 ,		1

6	Aggregation-Induced Emitters in Light Harvesting 2019 , 479-504		1
5	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
4	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
3	Continuous Flow Synthesis of Conjugated Polymers and Carbon Materials 159-181		1
2	Sensing, Templatation and Self-Assembly by Macrocyclic Ligand Systems 2005 , 105-119		1
1	Theoretical Aspects of Iterative Coupling for Linear Oligomers and Polymers. <i>Macromolecular Theory and Simulations</i> , 2020 , 29, 1900048	1.5	