

Hugo Bronstein

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7321180/hugo-bronstein-publications-by-citations.pdf>

Version: 2024-04-25

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.

83

papers

6,189

citations

38

h-index

78

g-index

94

ext. papers

7,003

ext. citations

10.5

avg, IF

5.85

L-index

#	Paper	IF	Citations
83	Thieno[3,2-b]thiophene-diketopyrrolopyrrole-containing polymers for high-performance organic field-effect transistors and organic photovoltaic devices. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3272-5	16.4	809
82	On the application of the tolerance factor to inorganic and hybrid halide perovskites: a revised system. <i>Chemical Science</i> , 2016 , 7, 4548-4556	9.4	507
81	Molecular origin of high field-effect mobility in an indacenodithiophene-benzothiadiazole copolymer. <i>Nature Communications</i> , 2013 , 4, 2238	17.4	384
80	Recent Progress in High-Mobility Organic Transistors: A Reality Check. <i>Advanced Materials</i> , 2018 , 30, e1801079	24	358
79	Photocurrent enhancement from diketopyrrolopyrrole polymer solar cells through alkyl-chain branching point manipulation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 11537-40	16.4	248
78	Exploring the origin of high optical absorption in conjugated polymers. <i>Nature Materials</i> , 2016 , 15, 746-537		233
77	Externally initiated regioregular P3HT with controlled molecular weight and narrow polydispersity. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12894-5	16.4	230
76	Design of semiconducting indacenodithiophene polymers for high performance transistors and solar cells. <i>Accounts of Chemical Research</i> , 2012 , 45, 714-22	24.3	229
75	The role of chemical design in the performance of organic semiconductors. <i>Nature Reviews Chemistry</i> , 2020 , 4, 66-77	34.6	205
74	Effect of Fluorination on the Properties of a Donor-Acceptor Copolymer for Use in Photovoltaic Cells and Transistors. <i>Chemistry of Materials</i> , 2013 , 25, 277-285	9.6	201
73	Charge recombination in organic photovoltaic devices with high open-circuit voltages. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13653-8	16.4	196
72	On the energetic dependence of charge separation in low-band-gap polymer/fullerene blends. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18189-92	16.4	160
71	Indacenodithiophene-co-benzothiadiazole Copolymers for High Performance Solar Cells or Transistors via Alkyl Chain Optimization. <i>Macromolecules</i> , 2011 , 44, 6649-6652	5.5	152
70	Correlating triplet yield, singlet oxygen generation and photochemical stability in polymer/fullerene blend films. <i>Chemical Communications</i> , 2013 , 49, 1291-3	5.8	125
69	Silaindacenodithiophene Semiconducting Polymers for Efficient Solar Cells and High-Mobility Ambipolar Transistors. <i>Chemistry of Materials</i> , 2011 , 23, 768-770	9.6	120
68	The influence of polymer purification on photovoltaic device performance of a series of indacenodithiophene donor polymers. <i>Advanced Materials</i> , 2013 , 25, 2029-34	24	119
67	Morphological stability and performance of polymer-fullerene solar cells under thermal stress: the impact of photoinduced PC60BM oligomerization. <i>ACS Nano</i> , 2014 , 8, 1297-308	16.7	111

66	Identification of oxidation products of squalene in solution and in latent fingerprints by ESI-MS and LC/APCI-MS. <i>Analytical Chemistry</i> , 2007 , 79, 2650-7	7.8	87
65	Singlet Exciton Lifetimes in Conjugated Polymer Films for Organic Solar Cells. <i>Polymers</i> , 2016 , 8,	4.5	81
64	A Simple Molecular Design Strategy for Delayed Fluorescence toward 1000 nm. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18390-18394	16.4	77
63	Synthesis and Exciton Dynamics of Donor-Orthogonal Acceptor Conjugated Polymers: Reducing the Singlet-Triplet Energy Gap. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11073-11080	16.4	71
62	Thieno[3,2-b]thiophene-diketopyrrolopyrrole Containing Polymers for Inverted Solar Cells Devices with High Short Circuit Currents. <i>Advanced Functional Materials</i> , 2013 , 23, 5647-5654	15.6	71
61	Scalable route to CH ₃ NH ₃ PbI ₃ perovskite thin films by aerosol assisted chemical vapour deposition. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9071-9073	13	67
60	Alkyl Chain Extension as a Route to Novel Thieno[3,2-b]thiophene Flanked Diketopyrrolopyrrole Polymers for Use in Organic Solar Cells and Field Effect Transistors. <i>Macromolecules</i> , 2013 , 46, 5961-5967	5.5	67
59	Charge recombination and exciton annihilation reactions in conjugated polymer blends. <i>Journal of the American Chemical Society</i> , 2010 , 132, 328-35	16.4	63
58	Constructing Regioregular Star Poly(3-hexylthiophene) via Externally Initiated Kumada Catalyst-Transfer Polycondensation.. <i>ACS Macro Letters</i> , 2012 , 1, 392-395	6.6	60
57	Material Crystallinity as a Determinant of Triplet Dynamics and Oxygen Quenching in Donor Polymers for Organic Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2014 , 24, 1474-1482	15.6	56
56	Exploiting Excited-State Aromaticity To Design Highly Stable Singlet Fission Materials. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13867-13876	16.4	55
55	Manipulating molecules with strong coupling: harvesting triplet excitons in organic exciton microcavities. <i>Chemical Science</i> , 2020 , 11, 343-354	9.4	55
54	Probing the chemical structure of monolayer covalent-organic frameworks grown via Schiff-base condensation reactions. <i>Chemical Communications</i> , 2016 , 52, 9941-4	5.8	53
53	Isostructural, Deeper Highest Occupied Molecular Orbital Analogues of Poly(3-hexylthiophene) for High-Open Circuit Voltage Organic Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 4239-4249	9.6	50
52	Highly Luminescent Encapsulated Narrow Bandgap Polymers Based on Diketopyrrolopyrrole. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1622-1626	16.4	48
51	A Systematic Approach to the Design Optimization of Light-Absorbing Indeno[1,2-b]fluorene Polymers for Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2012 , 2, 260-265	21.8	47
50	Enhanced sub-bandgap efficiency of a solid-state organic intermediate band solar cell using triplet-triplet annihilation. <i>Energy and Environmental Science</i> , 2017 , 10, 1465-1475	35.4	46
49	Indolo-naphthyridine-6,13-dione Thiophene Building Block for Conjugated Polymer Electronics: Molecular Origin of Ultrahigh n-Type Mobility. <i>Chemistry of Materials</i> , 2016 , 28, 8366-8378	9.6	45

48	The Effects of Binding Ligand Variation on the Nickel Catalyzed Externally Initiated Polymerization of 2-Bromo-3-hexyl-5-iodothiophene. <i>Macromolecular Chemistry and Physics</i> , 2009 , 210, 1966-1972	2.6	43
47	A Nature-Inspired Conjugated Polymer for High Performance Transistors and Solar Cells. <i>Macromolecules</i> , 2015 , 48, 5148-5154	5.5	40
46	Synthesis and Exciton Dynamics of Triplet Sensitized Conjugated Polymers. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10383-90	16.4	38
45	Synthesis of a novel fused thiophene-thieno[3,2-b]thiophene-thiophene donor monomer and co-polymer for use in OPV and OFETs. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 1664-8	4.8	38
44	Investigation into the Phosphorescence of a Series of Regioisomeric Iridium(III) Complexes. <i>Organometallics</i> , 2008 , 27, 2980-2989	3.8	35
43	Thieno[3,2-b]thiophene Flanked Isoindigo Polymers for High Performance Ambipolar OFET Applications. <i>Advanced Functional Materials</i> , 2014 , 24, n/a-n/a	15.6	31
42	Sequencing conjugated polymers by eye. <i>Science Advances</i> , 2018 , 4, eaas9543	14.3	26
41	Effect of Interfacial Energetics on Charge Transfer from Lead Halide Perovskite to Organic Hole Conductors. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1326-1332	3.8	25
40	Spatial Electron-hole Separation in a One Dimensional Hybrid Organic-Inorganic Lead Iodide. <i>Scientific Reports</i> , 2016 , 6, 20626	4.9	23
39	Hybrid Organic-Inorganic Coordination Complexes as Tunable Optical Response Materials. <i>Inorganic Chemistry</i> , 2016 , 55, 3393-400	5.1	23
38	Optimisation of diketopyrrolopyrrole:fullerene solar cell performance through control of polymer molecular weight and thermal annealing. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19282-19289	13	23
37	Tunable Semiconducting Polymer Nanoparticles with INDIT-Based Conjugated Polymers for Photoacoustic Molecular Imaging. <i>Bioconjugate Chemistry</i> , 2017 , 28, 1734-1740	6.3	21
36	Role of Polymer Fractionation in Energetic Losses and Charge Carrier Lifetimes of Polymer: Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19668-19673	3.8	21
35	Polythiophenes with vinylene linked ortho, meta and para-carborane sidechains. <i>Polymer Chemistry</i> , 2014 , 5, 6190-6199	4.9	21
34	Benzocarborano[2,1-b:3,4-b']dithiophene Containing Conjugated Polymers: Synthesis, Characterization, and Optoelectronic Properties. <i>Macromolecules</i> , 2014 , 47, 89-96	5.5	18
33	Bithiazole: An Intriguing Electron-Deficient Building for Plastic Electronic Applications. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1600610	4.8	17
32	Pressure-induced delocalization of photoexcited states in a semiconducting polymer. <i>Physical Review Letters</i> , 2010 , 105, 195501	7.4	17
31	Synthesis of fluoro-substituted silole-containing conjugated materials. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 5116-5125	2.5	17

30	Effect of Alkyl Chain Branching Point on 3D Crystallinity in High N-Type Mobility Indolonaphthyridine Polymers. <i>Advanced Functional Materials</i> , 2017 , 27, 1704069	15.6	16
29	Highly red-shifted NIR emission from a novel anthracene conjugated polymer backbone containing Pt(II) porphyrins. <i>Polymer Chemistry</i> , 2016 , 7, 722-730	4.9	15
28	Impact of Marginal Exciton Charge-Transfer State Offset on Charge Generation and Recombination in Polymer:Fullerene Solar Cells. <i>ACS Energy Letters</i> , 2019 , 4, 2096-2103	20.1	14
27	Power conversion efficiency enhancement in diketopyrrolopyrrole based solar cells through polymer fractionation. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8593-8598	7.1	14
26	Indacenodithiazole-Ladder-Type Bridged Di(thiophene)-Difluoro-Benzothiadiazole-Conjugated Copolymers as Ambipolar Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2019 , 31, 9488-9496	9.6	13
25	Ultra-fast spin-mixing in a diketopyrrolopyrrole monomer/fullerene blend charge transfer state. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24335-24343	13	13
24	Doubly Encapsulated Perylene Diimides: Effect of Molecular Encapsulation on Photophysical Properties. <i>Journal of Organic Chemistry</i> , 2020 , 85, 207-214	4.2	13
23	Polaron stability in semiconducting polymer neat films. <i>Chemical Communications</i> , 2014 , 50, 14425-8	5.8	12
22	Suppressing Solid-State Quenching in Red-Emitting Conjugated Polymers. <i>Chemistry of Materials</i> , 2020 , 32, 10140-10145	9.6	12
21	A novel low-bandgap pyridazine thiadiazole-based conjugated polymer with deep molecular orbital levels. <i>Polymer Chemistry</i> , 2020 , 11, 581-585	4.9	11
20	Operational electrochemical stability of thiophene-thiazole copolymers probed by resonant Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2015 , 142, 244904	3.9	10
19	Conjugated polymer-porphyrin complexes for organic electronics. <i>ChemPhysChem</i> , 2015 , 16, 1223-30	3.2	10
18	Macrocyclic Encapsulated Conjugated Polymers. <i>Macromolecules</i> , 2021 , 54, 1083-1094	5.5	9
17	Discerning Bulk and Interfacial Polarons in a Dual Electron Donor/Acceptor Polymer. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3813-3819	6.4	8
16	Perspectives for next generation lithium-ion battery cathode materials. <i>APL Materials</i> , 2021 , 9, 109201	5.7	8
15	Alkyl side-chain branching point effects in thieno[3,4-c]pyrrole-4,6-dione copolymers 2013 , 1, 30-35		7
14	Excited state character of Cibalackrot-type compounds interpreted in terms of Hückel-aromaticity: a rationale for singlet fission chromophore design. <i>Chemical Science</i> , 2021 , 12, 6159-6171	9.4	7
13	Suppressing aggregation induced quenching in anthracene based conjugated polymers. <i>Polymer Chemistry</i> , 2021 , 12, 1830-1836	4.9	6

12	Deep-red electrophosphorescence from a platinum(II)porphyrin complex copolymerised with polyfluorene for efficient energy transfer and triplet harvesting 2015 , 3, 1-7		5
11	Indolonaphthyridine: A Versatile Chromophore for Organic Electronics Inspired by Natural Indigo Dye. <i>Accounts of Chemical Research</i> , 2021 , 54, 182-193	24.3	5
10	Solvent-dependent photophysics of a red-shifted, biocompatible coumarin photocage. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 6178-6183	3.9	4
9	Synthesis of fully asymmetric diketopyrrolopyrrole derivatives.. <i>RSC Advances</i> , 2021 , 11, 5276-5283	3.7	4
8	Molecular Encapsulation of Naphthalene Diimide (NDI) Based π -Conjugated Polymers: A Tool for Understanding Photoluminescence. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25005-25012	16.4	3
7	Bis-lactam-based donor polymers for organic solar cells: Evolution by design. <i>Thin Solid Films</i> , 2014 , 560, 82-85	2.2	2
6	Energetic Tuning in Spirocyclic Conjugated Polymers. <i>Polymers</i> , 2016 , 8,	4.5	2
5	Intrinsic photogeneration of long-lived charges in a donor-orthogonal acceptor conjugated polymer. <i>Chemical Science</i> , 2021 , 12, 8165-8177	9.4	1
4	Tyrian purple: an ancient natural dye for cross-conjugated n-type charge transport. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4200-4205	7.1	1
3	Energy-Transfer Pathways and Triplet Lifetime Manipulation in a Zinc Porphyrin/F8BT Hybrid Polymer. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23950-23958	3.8	1
2	Transition-Metal-Free Homopolymerization of Pyrrolo[2,3-:5,4- η]bisthiazoles via Nucleophilic Aromatic Substitution. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41094-41101	9.5	0
1	Electro-optical π -radicals: design advances, applications and future perspectives. <i>Journal of Materials Chemistry C</i> ,	7.1	0