

Hugo Bronstein

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7321180/hugo-bronstein-publications-by-year.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	Perspectives for next generation lithium-ion battery cathode materials. <i>APL Materials</i> , 2021 , 9, 109201	5.7	8
82	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
81	Suppressing aggregation induced quenching in anthracene based conjugated polymers. <i>Polymer Chemistry</i> , 2021 , 12, 1830-1836	4.9	6
80	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
79	Synthesis of fully asymmetric diketopyrrolopyrrole derivatives.. <i>RSC Advances</i> , 2021 , 11, 5276-5283	3.7	4
78	Macrocyclic Encapsulated Conjugated Polymers. <i>Macromolecules</i> , 2021 , 54, 1083-1094	5.5	9
77	Intrinsic photogeneration of long-lived charges in a donor-orthogonal acceptor conjugated polymer. <i>Chemical Science</i> , 2021 , 12, 8165-8177	9.4	1
76	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
75	Transition-Metal-Free Homopolymerization of Pyrrolo[2,3-:5,4-]bisthiazoles via Nucleophilic Aromatic Substitution. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41094-41101	9.5	0
74	Molecular Encapsulation of Naphthalene Diimide (NDI) Based Conjugated Polymers: A Tool for Understanding Photoluminescence. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25005-25012	16.4	3
73	Doubly Encapsulated Perylene Diimides: Effect of Molecular Encapsulation on Photophysical Properties. <i>Journal of Organic Chemistry</i> , 2020 , 85, 207-214	4.2	13
72	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
71	Manipulating molecules with strong coupling: harvesting triplet excitons in organic exciton microcavities. <i>Chemical Science</i> , 2020 , 11, 343-354	9.4	55
70	The role of chemical design in the performance of organic semiconductors. <i>Nature Reviews Chemistry</i> , 2020 , 4, 66-77	34.6	205
69	Suppressing Solid-State Quenching in Red-Emitting Conjugated Polymers. <i>Chemistry of Materials</i> , 2020 , 32, 10140-10145	9.6	12
68	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
67	Solvent-dependent photophysics of a red-shifted, biocompatible coumarin photocage. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 6178-6183	3.9	4

66	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
65	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
64	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
63	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
62	Highly Luminescent Encapsulated Narrow Bandgap Polymers Based on Diketopyrrolopyrrole. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1622-1626	16.4	48
61	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
60	Recent Progress in High-Mobility Organic Transistors: A Reality Check. <i>Advanced Materials</i> , 2018 , 30, e1801079	24	358
59	Sequencing conjugated polymers by eye. <i>Science Advances</i> , 2018 , 4, eaas9543	14.3	26
58	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
57	Bithiazole: An Intriguing Electron-Deficient Building for Plastic Electronic Applications. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1600610	4.8	17
56	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
55	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
54	Tunable Semiconducting Polymer Nanoparticles with IND-T-Based Conjugated Polymers for Photoacoustic Molecular Imaging. <i>Bioconjugate Chemistry</i> , 2017 , 28, 1734-1740	6.3	21
53	Effect of Alkyl Chain Branching Point on 3D Crystallinity in High N-Type Mobility Indolophthalazine Polymers. <i>Advanced Functional Materials</i> , 2017 , 27, 1704069	15.6	16
52	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
51	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
50	Spatial Electron-hole Separation in a One Dimensional Hybrid Organic-Inorganic Lead Iodide. <i>Scientific Reports</i> , 2016 , 6, 20626	4.9	23
49	Indolo-naphthalene-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	Hybrid Organic-Inorganic Coordination Complexes as Tunable Optical Response Materials. <i>Inorganic Chemistry</i> , 2016 , 55, 3393-400	5.1	23
47	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
46	Energetic Tuning in Spirocyclic Conjugated Polymers. <i>Polymers</i> , 2016 , 8,	4.5	2
45	Singlet Exciton Lifetimes in Conjugated Polymer Films for Organic Solar Cells. <i>Polymers</i> , 2016 , 8,	4.5	81
44	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
43	Exploring the origin of high optical absorption in conjugated polymers. <i>Nature Materials</i> , 2016 , 15, 746-537		233
42	A Nature-Inspired Conjugated Polymer for High Performance Transistors and Solar Cells. <i>Macromolecules</i> , 2015 , 48, 5148-5154	5.5	40
41	Synthesis and Exciton Dynamics of Triplet Sensitized Conjugated Polymers. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10383-90	16.4	38
40	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
39	Deep-red electrophosphorescence from a platinum(II) porphyrin complex copolymerised with polyfluorene for efficient energy transfer and triplet harvesting 2015 , 3, 1-7		5
38	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
37	Operational electrochemical stability of thiophene-thiazole copolymers probed by resonant Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2015 , 142, 244904	3.9	10
36	Conjugated polymer-porphyrin complexes for organic electronics. <i>ChemPhysChem</i> , 2015 , 16, 1223-30	3.2	10
35	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
34	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
33	Polaron stability in semiconducting polymer neat films. <i>Chemical Communications</i> , 2014 , 50, 14425-8	5.8	12
32	Polythiophenes with vinylene linked ortho, meta and para-carborane sidechains. <i>Polymer Chemistry</i> , 2014 , 5, 6190-6199	4.9	21
31	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

30	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
29	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
28	Bis-lactam-based donor polymers for organic solar cells: Evolution by design. <i>Thin Solid Films</i> , 2014 , 560, 82-85	2.2	2
27	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
26	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
25	Molecular origin of high field-effect mobility in an indacenodithiophene-benzothiadiazole copolymer. <i>Nature Communications</i> , 2013 , 4, 2238	17.4	384
24	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
23	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
22	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
21	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
20	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
19	Alkyl side-chain branching point effects in thieno[3,4-c]pyrrole-4,6-dione copolymers 2013 , 1, 30-35		7
18	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
17	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
16	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
15	A Systematic Approach to the Design Optimization of Light-Absorbing Indenofluorene Polymers for Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2012 , 2, 260-265	21.8	47
14	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
13	Silaindacenodithiophene Semiconducting Polymers for Efficient Solar Cells and High-Mobility Ambipolar Transistors <i>Chemistry of Materials</i> , 2011 , 23, 768-770	9.6	120

12	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
11	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
10	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
9	Pressure-induced delocalization of photoexcited states in a semiconducting polymer. <i>Physical Review Letters</i> , 2010 , 105, 195501	7.4	17
8	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
7	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
6	Synthesis of fluoro-substituted silole-containing conjugated materials. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 5116-5125	2.5	17
5	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
4	Investigation into the Phosphorescence of a Series of Regioisomeric Iridium(III) Complexes. <i>Organometallics</i> , 2008 , 27, 2980-2989	3.8	35
3	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
2	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
1	Electro-optical Radicals: design advances, applications and future perspectives. <i>Journal of Materials Chemistry C</i> ,	7.1	0