

List of Publications by Citations

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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.

96 papers	10,099 citations	37 h-index	99 g-index
99 ext. papers	10,839 ext. citations	10.3 avg, IF	6.34 L-index

#	Paper	IF	Citations
96	Polymer solar cells with enhanced open-circuit voltage and efficiency. <i>Nature Photonics</i> , 2009 , 3, 649-653	33.9	2870
95	Recent Advances in Bulk Heterojunction Polymer Solar Cells. <i>Chemical Reviews</i> , 2015 , 115, 12666-731	68.1	1994
94	Ternary blend polymer solar cells with enhanced power conversion efficiency. <i>Nature Photonics</i> , 2014 , 8, 716-722	33.9	538
93	High-performance ternary blend polymer solar cells involving both energy transfer and hole relay processes. <i>Nature Communications</i> , 2015 , 6, 7327	17.4	383
92	Covalently Bound Clusters of Alpha-Substituted PDI-Rival Electron Acceptors to Fullerene for Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7248-51	16.4	346
91	Rational Design of Porous Conjugated Polymers and Roles of Residual Palladium for Photocatalytic Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7681-6	16.4	302
90	How to design low bandgap polymers for highly efficient organic solar cells. <i>Materials Today</i> , 2014 , 17, 11-15	21.8	184
89	Overcoming efficiency challenges in organic solar cells: rational development of conjugated polymers. <i>Energy and Environmental Science</i> , 2012 , 5, 8158	35.4	182
88	Electron Acceptors Based on α -Substituted Perylene Diimide (PDI) for Organic Solar Cells. <i>Chemistry of Materials</i> , 2016 , 28, 1139-1146	9.6	165
87	Are we there yet? Design of better conjugated polymers for polymer solar cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18934		142
86	Photovoltaic Function and Exciton/Charge Transfer Dynamics in a Highly Efficient Semiconducting Copolymer. <i>Advanced Functional Materials</i> , 2014 , 24, 10-26	15.6	128
85	Transport properties of a single-molecule diode. <i>ACS Nano</i> , 2012 , 6, 4931-9	16.7	124
84	Synthesis of amphiphilic conjugated diblock oligomers as molecular diodes. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 3598-601; 3514	16.4	122
83	Polyselenopheno[3,4-]selenophene for Highly Efficient Bulk Heterojunction Solar Cells.. <i>ACS Macro Letters</i> , 2012 , 1, 361-365	6.6	115
82	Mediating Solar Cell Performance by Controlling the Internal Dipole Change in Organic Photovoltaic Polymers. <i>Macromolecules</i> , 2012 , 45, 6390-6395	5.5	115
81	Development of Semiconducting Polymers for Solar Energy Harvesting. <i>Polymer Reviews</i> , 2010 , 50, 454-473	47.3	101
80	Synthesis and Search for Design Principles of New Electron Accepting Polymers for All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2014 , 26, 3450-3459	9.6	98

79	Ladder polymers: recent developments in syntheses, characterization, and potential applications as electronic and optical materials. <i>Chemistry of Materials</i> , 1990 , 2, 649-659	9.6	98
78	Donor-Acceptor Porous Conjugated Polymers for Photocatalytic Hydrogen Production: The Importance of Acceptor Comonomer. <i>Macromolecules</i> , 2016 , 49, 6903-6909	5.5	96
77	Nanoporous Porphyrin Polymers for Gas Storage and Separation. <i>Macromolecules</i> , 2012 , 45, 7413-7419	5.5	92
76	Multifunctional Polymers Exhibiting Photorefractive Effects. <i>Accounts of Chemical Research</i> , 1996 , 29, 13-21	24.3	90
75	Nanoporous Polyporphyrin as Adsorbent for Hydrogen Storage. <i>Macromolecules</i> , 2010 , 43, 3325-3330	5.5	81
74	Propeller-Shaped Acceptors for High-Performance Non-Fullerene Solar Cells: Importance of the Rigidity of Molecular Geometry. <i>Chemistry of Materials</i> , 2017 , 29, 1127-1133	9.6	77
73	Conjugated block copolymers and co-oligomers: from supramolecular assembly to molecular electronics. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2183		73
72	Synthesis of Ladder-Type Thienoacenes and Their Electronic and Optical Properties. <i>Journal of the American Chemical Society</i> , 2016 , 138, 868-75	16.4	68
71	Mechanistic Studies of Effect of Dispersity on the Photovoltaic Performance of PTB7 Polymer Solar Cells. <i>Chemistry of Materials</i> , 2015 , 27, 537-543	9.6	68
70	Synthesis and Characterization of Diblock Copolymers Containing Oligothiophenes with Defined Regiospecificity and Molecular Weights. <i>Macromolecules</i> , 1996 , 29, 7329-7334	5.5	68
69	Photocatalysts Based on Cobalt-Chelating Conjugated Polymers for Hydrogen Evolution from Water. <i>Chemistry of Materials</i> , 2016 , 28, 5394-5399	9.6	67
68	Exceptional Single-Molecule Transport Properties of Ladder-Type Heteroacene Molecular Wires. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10630-5	16.4	63
67	Conjugated Polymers Containing Mixed-Ligand Ruthenium(II) Complexes. Synthesis, Characterization, and Investigation of Photoconductive Properties. <i>Journal of the American Chemical Society</i> , 2000 , 122, 11806-11811	16.4	62
66	Photophysical and Morphological Implications of Single-Strand Conjugated Polymer Folding in Solution. <i>Chemistry of Materials</i> , 2016 , 28, 2814-2822	9.6	61
65	Chemoselective Immobilization of Gold Nanoparticles onto Self-Assembled Monolayers. <i>Langmuir</i> , 2002 , 18, 311-313	4	55
64	Exploration of Syntheses and Functions of Higher Ladder-type π -Conjugated Heteroacenes. <i>Chem</i> , 2018 , 4, 2538-2570	16.2	54
63	Beyond Molecular Wires: Design Molecular Electronic Functions Based on Dipolar Effect. <i>Accounts of Chemical Research</i> , 2016 , 49, 1852-63	24.3	47
62	Two Photon Absorption Study of Low-Bandgap, Fully Conjugated Perylene Diimide-Thienoacene-Perylene Diimide Ladder-Type Molecules. <i>Chemistry of Materials</i> , 2017 , 29, 6726-6732	9.6	47

61	Molecular Rectification Tuned by Through-Space Gating Effect. <i>Nano Letters</i> , 2017 , 17, 308-312	11.5	43
60	Optical, Electrical, and Magnetic Studies of Organic Solar Cells Based on Low Bandgap Copolymer with Spin π Radical Additives. <i>Advanced Functional Materials</i> , 2015 , 25, 1895-1902	15.6	39
59	Roles of Quinoidal Character and Regioregularity in Determining the Optoelectronic and Photovoltaic Properties of Conjugated Copolymers. <i>Macromolecules</i> , 2014 , 47, 6252-6259	5.5	37
58	Synthesis and Structure/Property Correlation of Fully Functionalized Photorefractive Polymers. <i>Macromolecules</i> , 2002 , 35, 4636-4645	5.5	35
57	Proton-triggered switch based on a molecular transistor with edge-on gate. <i>Chemical Science</i> , 2016 , 7, 3137-3141	9.4	34
56	A Single-Molecular AND Gate Operated with Two Orthogonal Switching Mechanisms. <i>Advanced Materials</i> , 2017 , 29, 1701248	24	33
55	Synthesis of Alternating Donor-Acceptor Ladder-Type Molecules and Investigation of Their Multiple Charge-Transfer Pathways. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6442-6448	16.4	32
54	Effect of acceptor strength on optical and electronic properties in conjugated polymers for solar applications. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5759-69	16.4	31
53	Effects of Exciton Polarity in Charge-Transfer Polymer/PCBM Bulk Heterojunction Films. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1856-63	6.4	30
52	Wide bandgap OPV polymers based on pyridinonedithiophene unit with efficiency >5. <i>Chemical Science</i> , 2015 , 6, 4860-4866	9.4	30
51	Efficient molecular photorefractive materials based on methine dyes. <i>Applied Physics Letters</i> , 2001 , 78, 700-702	3.4	30
50	Charge Transfer and Aggregation Effects on the Performance of Planar vs Twisted Nonfullerene Acceptor Isomers for Organic Solar Cells. <i>Chemistry of Materials</i> , 2018 , 30, 4263-4276	9.6	29
49	Incremental optimization in donor polymers for bulk heterojunction organic solar cells exhibiting high performance. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 1057-1070	2.6	29
48	Conjugated, Liquid Crystalline Polymers. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 1345-1347		29
47	Edge-on gating effect in molecular wires. <i>Nano Letters</i> , 2015 , 15, 958-62	11.5	28
46	Tuning the Polarizability in Donor Polymers with a Thiophenesaccharin Unit for Organic Photovoltaic Applications. <i>Advanced Functional Materials</i> , 2014 , 24, 3432-3437	15.6	27
45	Enhancement in Open-Circuit Voltage in Organic Solar Cells by Using Ladder-Type Nonfullerene Acceptors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13528-13533	9.5	24
44	Hybridized approach to new polymers exhibiting large photorefractivity. <i>Applied Physics Letters</i> , 1996 , 69, 4002-4004	3.4	24

43	Structure and dynamics correlations of photoinduced charge separation in rigid conjugated linear donor-acceptor dyads towards photovoltaic applications. <i>New Journal of Chemistry</i> , 2009 , 33, 1497	3.6	22
42	Conjugated photorefractive polymer. <i>Applied Physics Letters</i> , 1994 , 64, 2489-2491	3.4	22
41	Intra-molecular Charge Transfer and Electron Delocalization in Non-fullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10043-10052	9.5	20
40	Synthesis of Amphiphilic Conjugated Diblock Oligomers as Molecular Diodes. <i>Angewandte Chemie</i> , 2002 , 114, 3750-3753	3.6	20
39	Novel second-order nonlinear optical, aromatic, and aliphatic polyimides exhibiting high-temperature stability. <i>Applied Physics Letters</i> , 1995 , 66, 1050-1052	3.4	20
38	A Multifunctional Photorefractive Material Showing High Optical Gain and Diffraction Efficiency. <i>Advanced Materials</i> , 1998 , 10, 927-931	24	19
37	Morphological characterization of fullerene and fullerene-free organic photovoltaics by combined real and reciprocal space techniques. <i>Journal of Materials Research</i> , 2017 , 32, 1921-1934	2.5	18
36	Solution Phase Exciton Diffusion Dynamics of a Charge-Transfer Copolymer PTB7 and a Homopolymer P3HT. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 7447-56	3.4	17
35	Design of High-Performance Organic Light-Emitting Transistors. <i>ACS Omega</i> , 2020 , 5, 68-74	3.9	16
34	High Performance Ternary Organic Solar Cells due to Favored Interfacial Connection by a Non-Fullerene Electron Acceptor with Cross-Like Molecular Geometry. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11305-11311	3.8	15
33	Lessons learned from research on photorefractive polymers and molecular materials. <i>Journal of Polymer Science Part A</i> , 2001 , 39, 2557-2564	2.5	15
32	An Electromechanical Approach to Understanding Binding Configurations in Single-Molecule Devices. <i>Nano Letters</i> , 2018 , 18, 6638-6644	11.5	15
31	Investigations of Thienoacene Molecules for Classical and Entangled Two-Photon Absorption. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 8167-8182	2.8	14
30	Intramolecular hydrogen bonding assisted charge transport through single rectifying molecule. <i>Langmuir</i> , 2011 , 27, 2084-7	4	13
29	Fine-tuning photorefractive properties of monolithic molecular materials. <i>Applied Physics Letters</i> , 2003 , 82, 3385-3387	3.4	13
28	Highly Emissive Semi-Ladder-Type Copolymers, Aggregation State, and Solution-Processed Organic Light-Emitting Transistor. <i>Chemistry of Materials</i> , 2020 , 32, 4672-4680	9.6	10
27	Visualization of hierarchical nanodomains in polymer/fullerene bulk heterojunction solar cells. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1507-13	0.5	10
26	BODIPY-Containing Polymers with Ultralow Band Gaps and Ambipolar Charge Mobilities. <i>Macromolecules</i> , 2020 , 53, 2014-2020	5.5	9

25	Synthesis of Alternating Donor-Acceptor Ladder-Type Molecules and Investigation of Their Multiple Charge-Transfer Pathways. <i>Angewandte Chemie</i> , 2018 , 130, 6552-6558	3.6	7
24	Dipolar and electronic effects on charge transport through single transition metal complexes. <i>Science China Chemistry</i> , 2011 , 54, 410-414	7.9	7
23	Investigation of the Liquid Crystalline Isotropic Phase Transition in Oligo(phenylenevinylene) with Alkyl Side Chains. <i>Macromolecules</i> , 1997 , 30, 6274-6279	5.5	7
22	Synergy between Photoluminescence and Charge Transport Achieved by Finely Tuning Polymeric Backbones for Efficient Light-Emitting Transistor. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5239-5246	16.4	7
21	Controlled Self-Assembly of Cyclophane Amphiphiles: From 1D Nanofibers to Ultrathin 2D Topological Structures. <i>Macromolecules</i> , 2016 , 49, 5172-5178	5.5	7
20	Photoinduced cationic polycondensation in solid state towards ultralow band gap conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7026-7033	7.1	6
19	Effect of a local electric field on photogeneration efficiency in a photorefractive polymer. <i>Applied Physics Letters</i> , 1998 , 73, 2546-2548	3.4	5
18	Inhomogeneity of the Ultrafast Excited State Dynamics in Organic Photovoltaic Materials Measured at Nanoscale. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 22201-22209	3.8	5
17	Photophysical implications of ring fusion, linker length, and twisting angle in a series of perylenediimide-thienoacene dimers. <i>Chemical Science</i> , 2020 , 11, 7133-7143	9.4	3
16	Length-dependent self-assembly of oligothiophene derivatives in thin films. <i>Journal of Materials Research</i> , 2011 , 26, 296-305	2.5	3
15	The Role of the Core Attachment Positioning in Triggering Intramolecular Singlet Exciton Fission in Perylene Diimide Tetramers. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 5114-5131	3.4	3
14	Molecular Design towards Controlling Charge Transport. <i>Chemistry - A European Journal</i> , 2018 , 24, 17180-17187	17.1	2
13	PICOSECOND OPTICAL LIMITING PERFORMANCE OF A NOVEL PPV-ZnPc CONJUGATED POLYMER. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2000 , 09, 289-296	0.8	2
12	Molecular Control of Charge Carrier and Seebeck Coefficient in Hybrid Two-Dimensional Nanoparticle Superlattices. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 17-24	3.8	2
11	Finely Designed P3HT-Based Fully Conjugated Graft Polymer: Optical Measurements, Morphology, and the Faraday Effect. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30856-30861	9.5	1
10	Novel Photorefractive Materials Based on Multifunctional Organic Glasses. <i>ACS Symposium Series</i> , 1999 , 226-236	0.4	1
9	Rational Designs of Multifunctional Polymers-Conjugated Photorefractive Polymers. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 328, 63		1
8	Frontispiece: Synthesis of Alternating Donor-Acceptor Ladder-Type Molecules and Investigation of Their Multiple Charge-Transfer Pathways. <i>Angewandte Chemie - International Edition</i> , 2018 , 57,	16.4	1

7	Conjugated Block Copolymers and Cooligomers21-38	1
6	Organic Photovoltaics: Photovoltaic Function and Exciton/Charge Transfer Dynamics in a Highly Efficient Semiconducting Copolymer (Adv. Funct. Mater. 1/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 2-2	15.6
5	Disposable organic fluorescence biosensor for water pollution monitoring.. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1358, 50301	
4	Structural Evolution and Alignment of Cylinder-Forming PS-b-PEP Thin Films in Confinement Studied by Time-Lapse Atomic Force Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 854, U11.17.1	
3	Synthesis of Thioester End-Functionalized Poly(ϵ -caprolactone) and Its Application in Chemoselective Ligation. <i>ACS Symposium Series</i> , 1998 , 92-104	0.4
2	Progress in Fully Functionalized Photorefractive Materials. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 597, 203	
1	Low Bandgap Polymers1-31	