

Guillermo C Bazan

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359
papers

32,458
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88
h-index

172
g-index

383
ext. papers

35,571
ext. citations

14
avg, IF

7.5
L-index

#	Paper	IF	Citations
359	Electrochemical considerations for determining absolute frontier orbital energy levels of conjugated polymers for solar cell applications. <i>Advanced Materials</i> , 2011 , 23, 2367-71	24	1454
358	Processing additives for improved efficiency from bulk heterojunction solar cells. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3619-23	16.4	1434
357	Solution-processed small-molecule solar cells with 6.7% efficiency. <i>Nature Materials</i> , 2011 , 11, 44-8	27	1359
356	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020 , 14, 28-117	16.7	1000
355	Bulk heterojunction solar cells: morphology and performance relationships. <i>Chemical Reviews</i> , 2014 , 114, 7006-43	68.1	983
354	Ultrafast long-range charge separation in organic semiconductor photovoltaic diodes. <i>Science</i> , 2014 , 343, 512-6	33.3	698
353	Intensity dependence of current-voltage characteristics and recombination in high-efficiency solution-processed small-molecule solar cells. <i>ACS Nano</i> , 2013 , 7, 4569-77	16.7	675
352	Homogeneous Fluorescence-Based DNA Detection with Water-Soluble Conjugated Polymers. <i>Chemistry of Materials</i> , 2004 , 16, 4467-4476	9.6	589
351	DNA detection using water-soluble conjugated polymers and peptide nucleic acid probes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 10954-7	11.5	555
350	Non-basic high-performance molecules for solution-processed organic solar cells. <i>Advanced Materials</i> , 2012 , 24, 3646-9	24	554
349	Endohedral fullerenes for organic photovoltaic devices. <i>Nature Materials</i> , 2009 , 8, 208-12	27	547
348	Streamlined microwave-assisted preparation of narrow-bandgap conjugated polymers for high-performance bulk heterojunction solar cells. <i>Nature Chemistry</i> , 2009 , 1, 657-61	17.6	546
347	Improved high-efficiency organic solar cells via incorporation of a conjugated polyelectrolyte interlayer. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8416-9	16.4	515
346	Improved light harvesting and improved efficiency by insertion of an optical spacer (ZnO) in solution-processed small-molecule solar cells. <i>Nano Letters</i> , 2013 , 13, 3796-801	11.5	504
345	High-mobility field-effect transistors fabricated with macroscopic aligned semiconducting polymers. <i>Advanced Materials</i> , 2014 , 26, 2993-8	24	481
344	Design strategies for organic semiconductors beyond the molecular formula. <i>Nature Chemistry</i> , 2012 , 4, 699-704	17.6	447
343	Design and synthesis of molecular donors for solution-processed high-efficiency organic solar cells. <i>Accounts of Chemical Research</i> , 2014 , 47, 257-70	24.3	428

342	DNA hybridization detection with water-soluble conjugated polymers and chromophore-labeled single-stranded DNA. <i>Journal of the American Chemical Society</i> , 2003 , 125, 896-900	16.4	399
341	Polymer homo-tandem solar cells with best efficiency of 11.3%. <i>Advanced Materials</i> , 2015 , 27, 1767-73	24	386
340	Improved performance of polymer bulk heterojunction solar cells through the reduction of phase separation via solvent additives. <i>Advanced Materials</i> , 2010 , 22, E63-6	24	373
339	General strategy for self-assembly of highly oriented nanocrystalline semiconducting polymers with high mobility. <i>Nano Letters</i> , 2014 , 14, 2764-71	11.5	372
338	Recent Applications of Conjugated Polyelectrolytes in Optoelectronic Devices. <i>Advanced Materials</i> , 2008 , 20, 3793-3810	24	336
337	Barium: an efficient cathode layer for bulk-heterojunction solar cells. <i>Scientific Reports</i> , 2013 , 3, 1965	4.9	322
336	Recent Advances in Conjugated Polyelectrolytes for Emerging Optoelectronic Applications□ <i>Chemistry of Materials</i> , 2011 , 23, 501-515	9.6	316
335	Solvent effects on the two-photon absorption of distyrylbenzene chromophores. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14721-9	16.4	287
334	Solar cell efficiency, self-assembly, and dipole-dipole interactions of isomorphous narrow-band-gap molecules. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16597-606	16.4	272
333	Biosensors from conjugated polyelectrolyte complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 49-53	11.5	263
332	Conjugated polyelectrolyte hole transport layer for inverted-type perovskite solar cells. <i>Nature Communications</i> , 2015 , 6, 7348	17.4	248
331	Fluorescein provides a resonance gate for FRET from conjugated polymers to DNA intercalated dyes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5446-51	16.4	246
330	Synthesis, Morphology, and Optical Properties of Tetrahedral Oligo(phenylenevinylene) Materials. <i>Journal of the American Chemical Society</i> , 2000 , 122, 5695-5709	16.4	243
329	Structural order in bulk heterojunction films prepared with solvent additives. <i>Advanced Materials</i> , 2011 , 23, 2284-8	24	241
328	A high-performing solution-processed small molecule:perylene diimide bulk heterojunction solar cell. <i>Advanced Materials</i> , 2013 , 25, 4403-6	24	237
327	Interpolyelectrolyte complexes of conjugated copolymers and DNA: platforms for multicolor biosensors. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1942-3	16.4	237
326	Solvent Additives: Key Morphology-Directing Agents for Solution-Processed Organic Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1707114	24	228
325	Bichromophoric paracyclophanes: models for interchromophore delocalization. <i>Accounts of Chemical Research</i> , 2001 , 34, 30-9	24.3	222

3 ²⁴	Origin of the enhanced open-circuit voltage in polymer solar cells via interfacial modification using conjugated polyelectrolytes. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2617		214
3 ²³	High open circuit voltage in regioregular narrow band gap polymer solar cells. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12576-9	16.4	200
3 ²²	High mobility field effect transistors based on macroscopically oriented regioregular copolymers. <i>Nano Letters</i> , 2012 , 12, 6353-7	11.5	193
3 ²¹	Regioregular pyridal[2,1,3]thiadiazole π -conjugated copolymers. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18538-41	16.4	191
3 ²⁰	Lewis acid adducts of narrow band gap conjugated polymers. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4632-44	16.4	182
3 ¹⁹	Control of cationic conjugated polymer performance in light emitting diodes by choice of counterion. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14422-3	16.4	181
3 ¹⁸	Effects of Solvent Additives on Morphology, Charge Generation, Transport, and Recombination in Solution-Processed Small-Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1301469	21.8	180
3 ¹⁷	Film Morphology of High Efficiency Solution-Processed Small-Molecule Solar Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 5019-5026	15.6	180
3 ¹⁶	Harvesting the Full Potential of Photons with Organic Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 1482-8	24	177
3 ¹⁵	Shape-adaptable water-soluble conjugated polymers. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13306-7	16.4	176
3 ¹⁴	Conductive conjugated polyelectrolyte as hole-transporting layer for organic bulk heterojunction solar cells. <i>Advanced Materials</i> , 2014 , 26, 780-5	24	174
3 ¹³	Morphology Optimization via Side Chain Engineering Enables All-Polymer Solar Cells with Excellent Fill Factor and Stability. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8934-8943	16.4	171
3 ¹²	A modular molecular framework for utility in small-molecule solution-processed organic photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12700		169
3 ¹¹	Impact of interfacial molecular orientation on radiative recombination and charge generation efficiency. <i>Nature Communications</i> , 2017 , 8, 79	17.4	160
3 ¹⁰	Novel organic materials through control of multichromophore interactions. <i>Journal of Organic Chemistry</i> , 2007 , 72, 8615-35	4.2	159
3 ⁰⁹	Regioregular narrow-bandgap-conjugated polymers for plastic electronics. <i>Nature Communications</i> , 2017 , 8, 14047	17.4	157
3 ⁰⁸	Side-chain effects on the conductivity, morphology, and thermoelectric properties of self-doped narrow-band-gap conjugated polyelectrolytes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13478-81	16.4	147
3 ⁰⁷	Pyridal-thiadiazole-based narrow band gap chromophores. <i>Journal of the American Chemical Society</i> , 2012 , 134, 3766-79	16.4	147

306	Importance of domain purity and molecular packing in efficient solution-processed small-molecule solar cells. <i>Advanced Materials</i> , 2015 , 27, 1105-11	24	145
305	Solvent additive effects on small molecule crystallization in bulk heterojunction solar cells probed during spin casting. <i>Advanced Materials</i> , 2013 , 25, 6380-4	24	144
304	Preparation and biofunctionalization of multicolor conjugated polymer nanoparticles for imaging and detection of tumor cells. <i>Advanced Materials</i> , 2014 , 26, 3926-30	24	138
303	A High-Performance Solution-Processed Organic Photodetector for Near-Infrared Sensing. <i>Advanced Materials</i> , 2020 , 32, e1906027	24	138
302	Control of interchain contacts, solid-state fluorescence quantum yield, and charge transport of cationic conjugated polyelectrolytes by choice of anion. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16532-9	16.4	133
301	Design and properties of intermediate-sized narrow band-gap conjugated molecules relevant to solution-processed organic solar cells. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5697-708	16.4	132
300	Photoinduced charge generation in a molecular bulk heterojunction material. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19828-38	16.4	131
299	Higher Molecular Weight Leads to Improved Photoresponsivity, Charge Transport and Interfacial Ordering in a Narrow Bandgap Semiconducting Polymer. <i>Advanced Functional Materials</i> , 2010 , 20, 3959-3965	15.6	130
298	Silaindacenodithiophene-based molecular donor: morphological features and use in the fabrication of compositionally tolerant, high-efficiency bulk heterojunction solar cells. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3597-606	16.4	128
297	Band gap control in conjugated oligomers via Lewis acids. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10802-3	16.4	126
296	Improvement of interfacial contacts for new small-molecule bulk-heterojunction organic photovoltaics. <i>Advanced Materials</i> , 2012 , 24, 5368-73	24	123
295	Narrow-band-gap conjugated chromophores with extended molecular lengths. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20609-12	16.4	123
294	Electron injection into organic semiconductor devices from high work function cathodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 12730-5	11.5	123
293	Transition from Solution to the Solid State in Polymer Solar Cells Cast from Mixed Solvents. <i>Macromolecules</i> , 2008 , 41, 8655-8659	5.5	122
292	Solution-Processed Semitransparent Organic Photovoltaics: From Molecular Design to Device Performance. <i>Advanced Materials</i> , 2019 , 31, e1900904	24	117
291	Time-resolved structural evolution of additive-processed bulk heterojunction solar cells. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2884-7	16.4	117
290	Significance of Average Domain Purity and Mixed Domains on the Photovoltaic Performance of High-Efficiency Solution-Processed Small-Molecule BHJ Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1500877	21.8	116
289	Modification of the optoelectronic properties of membranes via insertion of amphiphilic phenylenevinylene oligoelectrolytes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10042-52	16.4	112

288	Ultraflexible Near-Infrared Organic Photodetectors for Conformal Photoplethysmogram Sensors. <i>Advanced Materials</i> , 2018 , 30, e1802359	24	111
287	A Membrane-Intercalating Conjugated Oligoelectrolyte with High-Efficiency Photodynamic Antimicrobial Activity. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5031-5034	16.4	110
286	Optimization of energy levels by molecular design: evaluation of bis-diketopyrrolopyrrole molecular donor materials for bulk heterojunction solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 952	35.4	109
285	Facile doping of anionic narrow-band-gap conjugated polyelectrolytes during dialysis. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12874-8	16.4	108
284	Design and synthesis of monofunctionalized, water-soluble conjugated polymers for biosensing and imaging applications. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12600-7	16.4	107
283	Side-Chain Engineering of Nonfullerene Acceptors for Near-Infrared Organic Photodetectors and Photovoltaics. <i>ACS Energy Letters</i> , 2019 , 4, 1401-1409	20.1	106
282	Improved injection in n-type organic transistors with conjugated polyelectrolytes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 18220-1	16.4	106
281	Doping-Induced Carrier Density Modulation in Polymer Field-Effect Transistors. <i>Advanced Materials</i> , 2016 , 28, 57-62	24	104
280	Impact of regiochemistry and isoelectronic bridgehead substitution on the molecular shape and bulk organization of narrow bandgap chromophores. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2298-305	16.4	101
279	Color tuning in polymer light-emitting diodes with Lewis acids. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7495-8	16.4	99
278	Conjugated-Polymer-Amplified Sensing, Imaging, and Therapy. <i>CheM</i> , 2017 , 2, 760-790	16.2	97
277	Amino N-Oxide Functionalized Conjugated Polymers and their Amino-Functionalized Precursors: New Cathode Interlayers for High-Performance Optoelectronic Devices. <i>Advanced Functional Materials</i> , 2012 , 22, 2846-2854	15.6	97
276	High-molecular-weight insulating polymers can improve the performance of molecular solar cells. <i>Advanced Materials</i> , 2014 , 26, 4168-72	24	96
275	Green-solvent-processed molecular solar cells. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 14378-81	16.4	95
274	Design Guidelines For Conjugated Polymers With Light-Activated Anticancer Activity. <i>Advanced Functional Materials</i> , 2011 , 21, 4058-4067	15.6	95
273	Improving charge collection in Escherichia coli-carbon electrode devices with conjugated oligoelectrolytes. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 5867-72	3.6	92
272	Varying the ionic functionalities of conjugated polyelectrolytes leads to both p- and n-type carbon nanotube composites for flexible thermoelectrics. <i>Energy and Environmental Science</i> , 2015 , 8, 2341-2346	35.4	89
271	Enhanced Efficiency Parameters of Solution-Processable Small-Molecule Solar Cells Depending on ITO Sheet Resistance. <i>Advanced Energy Materials</i> , 2013 , 3, 1161-1165	21.8	88

270	Order enables efficient electron-hole separation at an organic heterojunction with a small energy loss. <i>Nature Communications</i> , 2018 , 9, 277	17.4	87
269	Bendable n-Type Metallic Nanocomposites with Large Thermoelectric Power Factor. <i>Advanced Materials</i> , 2017 , 29, 1604752	24	87
268	Solution-Processed Organic Light-Emitting Transistors Incorporating Conjugated Polyelectrolytes. <i>Advanced Functional Materials</i> , 2011 , 21, 3667-3672	15.6	86
267	Bandgap Narrowing in Non-Fullerene Acceptors: Single Atom Substitution Leads to High Optoelectronic Response Beyond 1000 nm. <i>Advanced Energy Materials</i> , 2018 , 8, 1801212	21.8	86
266	Towards understanding the doping mechanism of organic semiconductors by Lewis acids. <i>Nature Materials</i> , 2019 , 18, 1327-1334	27	85
265	Catalytic Insertion of Ethylene into Al σ Bonds with PentamethylcyclopentadienylChromium(III) Complexes. <i>Organometallics</i> , 2001 , 20, 2059-2064	3.8	83
264	Role of trace impurities in the photovoltaic performance of solution processed small-molecule bulk heterojunction solar cells. <i>Chemical Science</i> , 2012 , 3, 2103	9.4	80
263	Design of Nonfullerene Acceptors with Near-Infrared Light Absorption Capabilities. <i>Advanced Energy Materials</i> , 2018 , 8, 1801209	21.8	79
262	Modification of Abiotic/Biotic Interfaces with Small Molecules and Nanomaterials for Improved Bioelectronics. <i>Chemistry of Materials</i> , 2014 , 26, 686-697	9.6	79
261	Ambient Processable and Stable All-Polymer Organic Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1806747	15.6	77
260	Synthesis and properties of two cationic narrow band gap conjugated polyelectrolytes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4163-6	16.4	77
259	Conjugated oligoelectrolytes increase power generation in E. coli microbial fuel cells. <i>Advanced Materials</i> , 2013 , 25, 1593-7	24	74
258	Comparing the device physics, dynamics and morphology of polymer solar cells employing conventional PCBM and non-fullerene polymer acceptor N2200. <i>Nano Energy</i> , 2017 , 35, 251-262	17.1	72
257	Tethered tertiary amines as solid-state n-type dopants for solution-processable organic semiconductors. <i>Chemical Science</i> , 2016 , 7, 1914-1919	9.4	71
256	Quantifying the Nongeminate Recombination Dynamics in Nonfullerene Bulk Heterojunction Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1901438	21.8	71
255	Oligomerization/Transmetalation reactions of Cp*CrMe2(PMe3)/methylaluminumoxane catalysts. <i>Chemical Communications</i> , 2000 , 1209-1210	5.8	69
254	Mixing Behavior in Small Molecule:Fullerene Organic Photovoltaics. <i>Chemistry of Materials</i> , 2017 , 29, 3062-3069	9.6	68
253	Effect of Backbone Regioregularity on the Structure and Orientation of a Donor/Acceptor Semiconducting Copolymer. <i>Macromolecules</i> , 2014 , 47, 1403-1410	5.5	67

252	High Mobility Organic Field-Effect Transistors from Majority Insulator Blends. <i>Chemistry of Materials</i> , 2016 , 28, 1256-1260	9.6	66
251	Electrical Instability Induced by Electron Trapping in Low-Bandgap Donor-Acceptor Polymer Field-Effect Transistors. <i>Advanced Materials</i> , 2015 , 27, 7004-9	24	65
250	All-conjugated polyelectrolyte block copolymers. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1423-1430		65
249	Remote activation of nickel catalysts for ethylene oligomerization. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 1108-1112	16.4	65
248	Limits for Recombination in a Low Energy Loss Organic Heterojunction. <i>ACS Nano</i> , 2016 , 10, 10736-10744	16.7	64
247	Antibacterial Narrow-Band-Gap Conjugated Oligoelectrolytes with High Photothermal Conversion Efficiency. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16063-16066	16.4	63
246	Solution-processed pH-neutral conjugated polyelectrolyte improves interfacial contact in organic solar cells. <i>ACS Nano</i> , 2015 , 9, 371-7	16.7	63
245	Tailoring Regioisomeric Structures of Conjugated Polymers Containing Monofluorinated Bridges for Highly Efficient Polymer Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 2087-2094	20.1	63
244	Achieving high permeability and enhanced selectivity for Angstrom-scale separations using artificial water channel membranes. <i>Nature Communications</i> , 2018 , 9, 2294	17.4	60
243	Identification of bacteria by conjugated oligoelectrolyte/single-stranded DNA electrostatic complexes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12562-4	16.4	60
242	Conjugated Oligoelectrolyte/ssDNA Aggregates: Self-Assembled Multicomponent Chromophores for Protein Discrimination. <i>Advanced Materials</i> , 2009 , 21, 964-967	24	58
241	Organic solar cells processed from green solvents. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017 , 5, 49-54	7.9	56
240	Increased mobility induced by addition of a Lewis acid to a Lewis basic conjugated polymer. <i>Advanced Materials</i> , 2014 , 26, 724-7	24	56
239	Device Performance of Emerging Photovoltaic Materials (Version 1). <i>Advanced Energy Materials</i> , 2021 , 11, 2002774	21.8	56
238	Toward Thermal Stable and High Photovoltaic Efficiency Ternary Conjugated Copolymers: Influence of Backbone Fluorination and Regioselectivity. <i>Chemistry of Materials</i> , 2017 , 29, 1758-1768	9.6	55
237	The Role of Solvent Additive Processing in High Performance Small Molecule Solar Cells. <i>Chemistry of Materials</i> , 2014 , 26, 6531-6541	9.6	54
236	Enantiomeric glycosylated cationic block co-beta-peptides eradicate <i>Staphylococcus aureus</i> biofilms and antibiotic-tolerant persisters. <i>Nature Communications</i> , 2019 , 10, 4792	17.4	53
235	Decacyclene Triimides: Paving the Road to Universal Non-Fullerene Acceptors for Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2014 , 4, 1301007	21.8	53

234	Linear Conjugated Polymer Backbones Improve Alignment in Nanogroove-Assisted Organic Field-Effect Transistors. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17624-17631	16.4	52
233	Determining the Dielectric Constants of Organic Photovoltaic Materials Using Impedance Spectroscopy. <i>Advanced Functional Materials</i> , 2018 , 28, 1801542	15.6	52
232	Unifying Energetic Disorder from Charge Transport and Band Bending in Organic Semiconductors. <i>Advanced Functional Materials</i> , 2019 , 29, 1901109	15.6	51
231	High thermal stability solution-processable narrow-band gap molecular semiconductors. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16144-7	16.4	51
230	NEXAFS Spectroscopy Reveals the Molecular Orientation in Blade-Coated Pyridal[2,1,3]thiadiazole-Containing Conjugated Polymer Thin Films. <i>Macromolecules</i> , 2015 , 48, 6606-6616	5.5	50
229	A Combined Experimental and Theoretical Study of Conformational Preferences of Molecular Semiconductors. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15610-15623	3.8	50
228	Synergistic Impact of Solvent and Polymer Additives on the Film Formation of Small Molecule Blend Films for Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1501121	21.8	50
227	Toward Additive-Free Small-Molecule Organic Solar Cells: Roles of the Donor Crystallization Pathway and Dynamics. <i>Advanced Materials</i> , 2015 , 27, 7285-92	24	50
226	Improved Tandem All-Polymer Solar Cells Performance by Using Spectrally Matched Subcells. <i>Advanced Energy Materials</i> , 2018 , 8, 1703291	21.8	49
225	Charge Generation and Recombination in an Organic Solar Cell with Low Energetic Offsets. <i>Advanced Energy Materials</i> , 2018 , 8, 1701073	21.8	49
224	Understanding the Role of Thermal Processing in High Performance Solution Processed Small Molecule Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 356-363	21.8	49
223	Fluorine substitution influence on benzo[2,1,3]thiadiazole based polymers for field-effect transistor applications. <i>Chemical Communications</i> , 2016 , 52, 3207-10	5.8	48
222	Controlling the Thermoelectric Properties of Thiophene-Derived Single-Molecule Junctions. <i>Chemistry of Materials</i> , 2014 , 26, 7229-7235	9.6	48
221	Synthesis, Characterization, and Reactivity of Chromium Boratabenzene Complexes. <i>Organometallics</i> , 2000 , 19, 3948-3956	3.8	48
220	The role of charge recombination to triplet excitons in organic solar cells. <i>Nature</i> , 2021 , 597, 666-671	50.4	48
219	Modeling cell membrane perturbation by molecules designed for transmembrane electron transfer. <i>Langmuir</i> , 2014 , 30, 2429-40	4	47
218	Effect of Bridging Atom Identity on the Morphological Behavior of Solution-Processed Small Molecule Bulk Heterojunction Photovoltaics. <i>Chemistry of Materials</i> , 2013 , 25, 1688-1698	9.6	47
217	Unifying Charge Generation, Recombination, and Extraction in Low-Offset Non-Fullerene Acceptor Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2001203	21.8	46

216	Single-Component β -aminocarboxamide Nickel Ethylene Polymerization and Copolymerization Initiators. <i>Organometallics</i> , 2007 , 26, 5339-5345	3.8	46
215	Mechanical Properties of Solution-Processed Small-Molecule Semiconductor Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11649-57	9.5	46
214	Electrical Double-Slope Nonideality in Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2018 , 28, 1707221	15.6	45
213	Measuring the competition between bimolecular charge recombination and charge transport in organic solar cells under operating conditions. <i>Energy and Environmental Science</i> , 2018 , 11, 3019-3032	35.4	45
212	Comparison of flavins and a conjugated oligoelectrolyte in stimulating extracellular electron transport from <i>Shewanella oneidensis</i> MR-1. <i>Electrochemistry Communications</i> , 2014 , 41, 55-58	5.1	45
211	Topological considerations for the design of molecular donors with multiple absorbing units. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5591-4	16.4	44
210	Ab Initio Study of a Molecular Crystal for Photovoltaics: Light Absorption, Exciton and Charge Carrier Transport. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4920-4930	3.8	44
209	Interplay of solvent additive concentration and active layer thickness on the performance of small molecule solar cells. <i>Advanced Materials</i> , 2014 , 26, 7308-16	24	44
208	Synthesis, characterization, and biological affinity of a near-infrared-emitting conjugated oligoelectrolyte. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3736-9	16.4	43
207	A lipid membrane intercalating conjugated oligoelectrolyte enables electrode driven succinate production in <i>Shewanella</i> . <i>Energy and Environmental Science</i> , 2013 , 6, 1761	35.4	43
206	Cross-Linking of Thiolated Paclitaxel-Oligo(p-phenylene vinylene) Conjugates Aggregates inside Tumor Cells Leads to "Chemical Locks" That Increase Drug Efficacy. <i>Advanced Materials</i> , 2018 , 30, 1704888	24	42
205	Encapsulated Conjugated Oligomer Nanoparticles for Real-Time Photoacoustic Sentinel Lymph Node Imaging and Targeted Photothermal Therapy. <i>Small</i> , 2016 , 12, 4873-4880	11	42
204	Insight into the Raman shifts and optical absorption changes upon annealing polymer/fullerene solar cells. <i>Applied Physics Letters</i> , 2008 , 92, 251912	3.4	41
203	Hole Mobility and Electron Injection Properties of D-A Conjugated Copolymers with Fluorinated Phenylene Acceptor Units. <i>Advanced Materials</i> , 2017 , 29, 1603830	24	40
202	Doping Polymer Semiconductors by Organic Salts: Toward High-Performance Solution-Processed Organic Field-Effect Transistors. <i>ACS Nano</i> , 2018 , 12, 3938-3946	16.7	40
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