Serge BeauprÃ©

List of Publications by Year
in descending order

61 papers	10,820 citations	39 h-index	61 g-index
63 all docs	63 docs citations	63 times ranked	9234 citing authors

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#	Article	IF	Citations
1	Direct (hetero)arylation polymerization: toward defect-free conjugated polymers. Polymer Journal, 2020, 52, 13-20.	2.7	34
2	Fused Benzothiadiazole: A Building Block for nâ€Type Organic Acceptor to Achieve Highâ€Performance Organic Solar Cells. Advanced Materials, 2019, 31, e1807577.	21.0	297
3	Theoretical Calculations for Highly Selective Direct Heteroarylation Polymerization: New Nitrile-Substituted Dithienyl-Diketopyrrolopyrrole-Based Polymers. Molecules, 2018, 23, 2324.	3.8	7
4	Random Dâ€"A1â€"Dâ€"A2terpolymers based on benzodithiophene, thiadiazole[3,4-e]isoindole-5,7-dione and thieno[3,4-c]pyrrole-4,6-dione for efficient polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 6638-6647.	10.3	21
5	Direct heteroarylation polymerization: guidelines for defect-free conjugated polymers. Chemical Science, 2017, 8, 3913-3925.	7.4	70
6	A Study of the Degree of Fluorination in Regioregular Poly(3-hexylthiophene). Macromolecules, 2017, 50, 162-174.	4.8	30
7	New Fluorinated Dithienyldiketopyrrolopyrrole Monomers and Polymers for Organic Electronics. Macromolecules, 2017, 50, 7080-7090.	4.8	50
8	Photovoltaic device performance of highly regioregular fluorinated poly(3-hexylthiophene). Organic Electronics, 2017, 50, 115-120.	2.6	7
9	Fluorinated Thiophene-Based Synthons: Polymerization of 1,4-Dialkoxybenzene and Fluorinated Dithieno-2,1,3-benzothiadiazole by Direct Heteroarylation. Macromolecules, 2017, 50, 4658-4667.	4.8	28
10	Direct (Hetero)arylation Polymerization: Simplicity for Conjugated Polymer Synthesis. Chemical Reviews, 2016, 116, 14225-14274.	47.7	402
11	Increasing Polymer Solar Cell Fill Factor by Trapâ€Filling with F4â€TCNQ at Parts Per Thousand Concentration. Advanced Materials, 2016, 28, 6491-6496.	21.0	85
12	Thieno, Furo, and Selenopheno[3,4â€<i>c</i>]pyrroleâ€4,6â€dione Copolymers: Airâ€Processed Polymer Solar Cells with Power Conversion Efficiency up to 7.1%. Advanced Energy Materials, 2015, 5, 1501213.	19.5	20
13	Is there a photostable conjugated polymer for efficient solar cells?. Polymer Degradation and Stability, 2015, 112, 175-184.	5.8	38
14	Photoinduced Dynamics of Charge Separation: From Photosynthesis to Polymerâ€"Fullerene Bulk Heterojunctions. Journal of Physical Chemistry B, 2015, 119, 7407-7416.	2.6	48
15	Elucidating the Impact of Molecular Packing and Device Architecture on the Performance of Nanostructured Perylene Diimide Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 8687-8698.	8.0	26
16	How Photoinduced Crosslinking Under Operating Conditions Can Reduce PCDTBTâ€Based Solar Cell Efficiency and then Stabilize It. Advanced Energy Materials, 2014, 4, 1301530.	19.5	39
17	Charge Transfer: Electronic Structure of Fullerene Heterodimer in Bulkâ€Heterojunction Blends (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlo	19.5	2
18	Electronic Structure of Fullerene Heterodimer in Bulkâ€Heterojunction Blends. Advanced Energy Materials, 2014, 4, 1301517.	19.5	30

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19	Highly efficient thieno[3,4-c]pyrrole-4,6-dione-based solar cells processed from non-chlorinated solvent. Organic Electronics, 2014, 15, 543-548.	2.6	40
20	PCDTBT: en route for low cost plastic solar cells. Journal of Materials Chemistry A, 2013, 1, 11097.	10.3	171
21	Impact of UVâ€Visible Light on the Morphological and Photochemical Behavior of a Lowâ€Bandgap Poly(2,7â€Carbazole) Derivative for Use in Highâ€Performance Solar Cells. Advanced Energy Materials, 2013, 3, 478-487.	19.5	75
22	High open-circuit voltage solar cells using a new thieno[3,4-c] pyrrole-4,6-dione based copolymer. Synthetic Metals, 2013, 182, 9-12.	3.9	9
23	Direct heteroarylation of Î²-protected dithienosilole and dithienogermole monomers with thieno[3,4-c]pyrrole-4,6-dione and furo[3,4-c]pyrrole-4,6-dione. Polymer Chemistry, 2013, 4, 5252.	3.9	47
24	Highly-efficient charge separation and polaron delocalization in polymerâ€“fullerene bulk-heterojunctions: a comparative multi-frequency EPR and DFT study. Physical Chemistry Chemical Physics, 2013, 15, 9562.	2.8	135
25	Thieno-, Furo-, and Selenopheno[3,4-<i>c</i>]pyrrole-4,6-dione Copolymers: Effect of the Heteroatom on the Electrooptical Properties. Macromolecules, 2012, 45, 6906-6914.	4.8	79
26	Control of the active layer nanomorphology by using co-additives towards high-performance bulk heterojunction solar cells. Organic Electronics, 2012, 13, 1736-1741.	2.6	103
27	Donorâ€“acceptor alternating copolymers containing thienopyrroledione electron accepting units: preparation, redox behaviour, and application to photovoltaic cells. Polymer Chemistry, 2012, 3, 2355.	3.9	24
28	Slow geminateâ€chargeâ€pair recombination dynamics at polymer: Fullerene heterojunctions in efficient organic solar cells. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 1395-1404.	2.1	12
29	Solution Processed Organic Tandem Solar Cells. Energy Procedia, 2012, 31, 159-166.	1.8	7
30	Intensity Dependent Femtosecond Dynamics in a PBDTTPD-Based Solar Cell Material. Journal of Physical Chemistry Letters, 2012, 3, 2952-2958.	4.6	28
31	Effects of the Molecular Weight and the Sideâ€Chain Length on the Photovoltaic Performance of Dithienosilole/Thienopyrrolodione Copolymers. Advanced Functional Materials, 2012, 22, 2345-2351.	14.9	223
32	Work Function Control of Interfacial Buffer Layers for Efficient and Airâ€Stable Inverted Lowâ€Bandgap Organic Photovoltaics. Advanced Energy Materials, 2012, 2, 361-368.	19.5	56
33	Ultrafast relaxation of charge-transfer excitons in low-bandgap conjugated copolymers. Chemical Science, 2012, 3, 2270.	7.4	44
34	High-efficiency inverted solar cells based on a low bandgap polymer with excellent air stability. Solar Energy Materials and Solar Cells, 2012, 96, 155-159.	6.2	89
35	Effect of mixed solvents on PCDTBT:PC70BM based solar cells. Organic Electronics, 2011, 12, 1788-1793.	2.6	82
36	Bulk Heterojunction Solar Cells Using Thieno[3,4-<i>c</i>]pyrrole-4,6-dione and Dithieno[3,2-<i>b</i>:2â€²,3â€²-<i>d</i>]silole Copolymer with a Power Conversion Efficiency of 7.3%. Journal of the American Chemical Society, 2011, 133, 4250-4253.	13.7	1,047

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37	Rational Design of Poly(2,7â€Carbazole) Derivatives for Photovoltaic Applications. Macromolecular Theory and Simulations, 2011, 20, 13-18.	1.4	31
38	Synthesis and Characterization of New Thieno[3,4â€c]pyrroleâ€4,6â€dione Derivatives for Photovoltaic Applications. Advanced Functional Materials, 2011, 21, 718-728.	14.9	170
39	High Efficiency Polymer Solar Cells with Long Operating Lifetimes. Advanced Energy Materials, 2011, 1, 491-494.	19.5	395
40	Charge carrier photogeneration and decay dynamics in the poly(2,7-carbazole) copolymer PCDTBT and in bulk heterojunction composites with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>PC</mml:mtext></mml:mrow><mml:mrow><mml:mn>70</mml:n Physical Review B, 2010, 81, .	3.2	117
41	A Thieno[3,4-<i>c</i>]pyrrole-4,6-dione-Based Copolymer for Efficient Solar Cells. Journal of the American Chemical Society, 2010, 132, 5330-5331.	13.7	747
42	A Thermally Stable Semiconducting Polymer. Advanced Materials, 2010, 22, 1253-1257.	21.0	165
43	Solarâ€Energy Production and Energyâ€Efficient Lighting: Photovoltaic Devices and Whiteâ€Lightâ€Emitting Diodes Using Poly(2,7â€fluorene), Poly(2,7â€carbazole), and Poly(2,7â€dibenzosilole) Derivatives. Advanced Materials, 2010, 22, E6-E27.	21.0	220
44	Polycarbazoles for plastic electronics. Polymer Chemistry, 2010, 1, 127-136.	3.9	172
45	Highly efficient polycarbazole-based organic photovoltaic devices. Applied Physics Letters, 2009, 95, 063304.	3.3	107
46	Bulk heterojunction solar cells with internal quantum efficiency approaching 100%. Nature Photonics, 2009, 3, 297-302.	31.4	3,903
47	Highly efficient organic solar cells based on a poly(2,7-carbazole) derivative. Journal of Materials Chemistry, 2009, 19, 5351.	6.7	185
48	Multicolored Electrochromic Cells Based On Poly(2,7-Carbazole) Derivatives For Adaptive Camouflage. Chemistry of Materials, 2009, 21, 1504-1513.	6.7	158
49	2008 Macromolecular Science and Engineering Division Award Lecture â€" Conjugated polymers: From micro-electronics to genomics. Canadian Journal of Chemistry, 2009, 87, 1201-1208.	1.1	6
50	Toward the Development of New Textile/Plastic Electrochromic Cells Using Triphenylamine-Based Copolymers. Chemistry of Materials, 2006, 18, 4011-4018.	6.7	143
51	Optical and Electrical Properties of Ï€-Conjugated Polymers Based on Electron-Rich 3,6-Dimethoxy-9,9-dihexylfluorene Unit. Macromolecules, 2003, 36, 8986-8991.	4.8	34
52	Blue light-emitting devices from new conjugated poly(N-substituted-2,7-carbazole) derivatives. Applied Physics Letters, 2002, 80, 341-343.	3.3	89
53	Electronic spectroscopy and photophysics of phenyleneâ€"fluorene derivatives as well as their corresponding polyesters. Synthetic Metals, 2002, 126, 43-51.	3.9	19
54	Spectroscopic and Photophysical Properties of Thiopheneâˆ'Fluorene Oligomers as well as Their Corresponding Polyesters. Macromolecules, 2001, 34, 2288-2297.	4.8	48

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55	Design, Synthesis and Charaterization of Polymers Derived from Fluorene for Application in RGB Polymer Light-Emitting-Diodes. Materials Research Society Symposia Proceedings, 2001, 665, 1.	0.1	2
56	Synthesis and characterization of a novel polyester derived from substituted terfluorene. Macromolecular Rapid Communications, 2000, 21, 1013-1018.	3.9	42
57	Conformational, optical and photophysical properties of a substituted terfluorene isolated and incorporated in a polyester. Chemical Physics Letters, 2000, 316, 101-107.	2.6	45
58	Molecular Design and Characterization of Chromic Polyfluorene Derivatives. Macromolecules, 2000, 33, 5874-5879.	4.8	109
59	Light-Emitting Diodes from Fluorene-Based Ï€-Conjugated Polymers. Chemistry of Materials, 2000, 12, 1931-1936.	6.7	252
60	Theoretical and Experimental Investigations of the Spectroscopic and Photophysical Properties of Fluorene-Phenylene and Fluorene-Thiophene Derivatives:Â Precursors of Light-Emitting Polymers. Journal of Physical Chemistry B, 2000, 104, 9118-9125.	2.6	151
61	Bulk heterojunction solar cells with internal quantum efficiency approaching 100%. , 0, .		1