Brett P Fors

List of Publications by Year
in descending order

74 papers	8,440 citations	53751 45 h-index	66879 78 g-index
102 all docs	102 docs citations	102 times ranked	6251 citing authors

#	Article	IF	Citations
1	Metal-Free Atom Transfer Radical Polymerization. Journal of the American Chemical Society, 2014, 136, 16096-16101.	6.6	787
2	Control of a Living Radical Polymerization of Methacrylates by Light. Angewandte Chemie - International Edition, 2012, 51, 8850-8853.	7.2	724
3	A Highly Active Catalyst for Pd-Catalyzed Amination Reactions: Cross-Coupling Reactions Using Aryl Mesylates and the Highly Selective Monoarylation of Primary Amines Using Aryl Chlorides. Journal of the American Chemical Society, 2008, 130, 13552-13554.	6.6	474
4	External Regulation of Controlled Polymerizations. Angewandte Chemie - International Edition, 2013, 52, 199-210.	7.2	409
5	A New Class of Easily Activated Palladium Precatalysts for Facile Câ^'N Cross-Coupling Reactions and the Low Temperature Oxidative Addition of Aryl Chlorides. Journal of the American Chemical Society, 2008, 130, 6686-6687.	6.6	378
6	Palladium-catalyzed coupling of functionalized primary and secondary amines with aryl and heteroaryl halides: two ligands suffice in most cases. Chemical Science, 2011, 2, 57-68.	3.7	315
7	A Multiligand Based Pd Catalyst for Câ^'N Cross-Coupling Reactions. Journal of the American Chemical Society, 2010, 132, 15914-15917.	6.6	240
8	Controlled Radical Polymerization of Acrylates Regulated by Visible Light. ACS Macro Letters, 2014, 3, 580-584.	2.3	236
9	Water-Mediated Catalyst Preactivation: An Efficient Protocol for Câ^'N Cross-Coupling Reactions. Organic Letters, 2008, 10, 3505-3508.	2.4	235
10	Fabrication of Complex Threeâ€Dimensional Polymer Brush Nanostructures through Lightâ€Mediated Living Radical Polymerization. Angewandte Chemie - International Edition, 2013, 52, 6844-6848.	7.2	218
11	Pd-Catalyzed Conversion of Aryl Chlorides, Triflates, and Nonaflates to Nitroaromatics. Journal of the American Chemical Society, 2009, 131, 12898-12899.	6.6	205
12	A Single Phosphine Ligand Allows Palladiumâ€Catalyzed Intermolecular Cï£¿O Bond Formation with Secondary and Primary Alcohols. Angewandte Chemie - International Edition, 2011, 50, 9943-9947.	7.2	186
13	Cationic Polymerization of Vinyl Ethers Controlled by Visible Light. Journal of the American Chemical Society, 2016, 138, 15535-15538.	6.6	186
14	Photocontrolled Interconversion of Cationic and Radical Polymerizations. Journal of the American Chemical Society, 2017, 139, 10665-10668.	6.6	183
15	An Efficient Process for Pd-Catalyzed Câ^'N Cross-Coupling Reactions of Aryl Iodides: Insight Into Controlling Factors. Journal of the American Chemical Society, 2009, 131, 5766-5768.	6.6	170
16	Controlling polymer properties through the shape of the molecular-weight distribution. Nature Reviews Materials, 2019, 4, 761-774.	23.3	155
17	Cationic Polymerization: From Photoinitiation to Photocontrol. Angewandte Chemie - International Edition, 2017, 56, 9670-9679.	7.2	148
18	Beyond Dispersity: Deterministic Control of Polymer Molecular Weight Distribution. Journal of the American Chemical Society, 2016, 138, 1848-1851.	6.6	146

#	Article	IF	Citations
19	Mechanistic Insight into the Photocontrolled Cationic Polymerization of Vinyl Ethers. Journal of the American Chemical Society, 2017, 139, 15530-15538.	6.6	120
20	A Versatile Catalyst System for Suzukiâˆ'Miyaura Cross-Coupling Reactions of C(sp²)-Tosylates and Mesylates. Organic Letters, 2009, 11, 3954-3957.	2.4	119
21	Palladium-Catalyzed Cross-Coupling of Aryl Chlorides and Triflates with Sodium Cyanate: A Practical Synthesis of Unsymmetrical Ureas. Journal of the American Chemical Society, 2012, 134, 11132-11135.	6.6	115
22	Electrochemically Controlled Cationic Polymerization of Vinyl Ethers. Journal of the American Chemical Society, 2018, 140, 2076-2079.	6.6	113
23	An efficient system for the Pd-catalyzed cross-coupling of amides and aryl chlorides. Tetrahedron, 2009, 65, 6576-6583.	1.0	111
24	Fabrication of Unique Chemical Patterns and Concentration Gradients with Visible Light. Journal of the American Chemical Society, 2013, 135, 14106-14109.	6.6	106
25	Exploiting Molecular Weight Distribution Shape to Tune Domain Spacing in Block Copolymer Thin Films. Journal of the American Chemical Society, 2018, 140, 4639-4648.	6.6	99
26	On Demand Switching of Polymerization Mechanism and Monomer Selectivity with Orthogonal Stimuli. ACS Central Science, 2018, 4, 1228-1234.	5.3	96
27	â€œShapingâ€•the Future of Molecular Weight Distributions in Anionic Polymerization. ACS Macro Letters, 2016, 5, 796-800.	2.3	93
28	Pd-Catalyzed Cross-Coupling Reactions of Amides and Aryl Mesylates. Organic Letters, 2010, 12, 2350-2353.	2.4	90
29	Controlling the Shape of Molecular Weight Distributions in Coordination Polymerization and Its Impact on Physical Properties. Journal of the American Chemical Society, 2020, 142, 1443-1448.	6.6	88
30	What happens in the dark? Assessing the temporal control of photoâ€mediated controlled radical polymerizations. Journal of Polymer Science Part A, 2019, 57, 268-273.	2.5	81
31	Continuous flow synthesis of poly(methyl methacrylate) via a lightâ€mediated controlled radical polymerization. Journal of Polymer Science Part A, 2015, 53, 2693-2698.	2.5	78
32	A facile microwave-assisted palladium-catalyzed cyanation of aryl chlorides. Tetrahedron Letters, 2006, 47, 3303-3305.	0.7	71
33	Synthesis of Unsymmetrical Diarylureas via Pd-Catalyzed Câ€“N Cross-Coupling Reactions. Organic Letters, 2011, 13, 3262-3265.	2.4	70
34	Manipulation of Molecular Weight Distribution Shape as a New Strategy to Control Processing Parameters. Macromolecular Rapid Communications, 2017, 38, 1700352.	2.0	64
35	Organic Catalysts for Photocontrolled Polymerizations. Synlett, 2016, 27, 702-713.	1.0	63
36	Phenothiazine-Based Polymer Cathode Materials with Ultrahigh Power Densities for Lithium Ion Batteries. ACS Applied Energy Materials, 2018, 1, 3560-3564.	2.5	63

#	Article	IF	Citations
37	Molecular Weight Distribution Shape as a Versatile Approach to Tailoring Block Copolymer Phase Behavior. ACS Macro Letters, 2018, 7, 677-682.	2.3	60
38	Palladium-Catalyzed Synthesis of <i>N</i>-Aryl Carbamates. Organic Letters, 2013, 15, 1394-1397.	2.4	56
39	Depolymerization of Hydroxylated Polymers via Light-Driven Câ€“C Bond Cleavage. Journal of the American Chemical Society, 2021, 143, 12268-12277.	6.6	56
40	Me3(OMe)tBuXPhos: A Surrogate Ligand for Me4tBuXPhos in Palladium-Catalyzed Câ€“N and Câ€“O Bond-Forming Reactions. Journal of Organic Chemistry, 2012, 77, 2543-2547.	1.7	51
41	Enhancing Temporal Control and Enabling Chainâ€End Modification in Photoregulated Cationic Polymerizations by Using Iridiumâ€Based Catalysts. Angewandte Chemie - International Edition, 2018, 57, 8260-8264.	7.2	51
42	Renewable Thermosets and Thermoplastics from Itaconic Acid. ACS Sustainable Chemistry and Engineering, 2019, 7, 2691-2701.	3.2	51
43	PET/CT Imaging of Chemokine Receptors in Inflammatory Atherosclerosis Using Targeted Nanoparticles. Journal of Nuclear Medicine, 2016, 57, 1124-1129.	2.8	50
44	Shifting Boundaries: Controlling Molecular Weight Distribution Shape for Mechanically Enhanced Thermoplastic Elastomers. Macromolecules, 2020, 53, 7479-7486.	2.2	46
45	Photocontrolled Radical Polymerization from Hydridic Câ€“H Bonds. Journal of the American Chemical Society, 2020, 142, 4581-4585.	6.6	46
46	Predictive design of polymer molecular weight distributions in anionic polymerization. Polymer Chemistry, 2020, 11, 326-336.	1.9	45
47	Dual Stimuli Switching: Interconverting Cationic and Radical Polymerizations with Electricity and Light. CheM, 2020, 6, 1794-1803.	5.8	43
48	Organic electrode materials for fast-rate, high-power battery applications. Materials Reports Energy, 2021, 1, 100008.	1.7	43
49	Crossâ€linking Effects on Performance Metrics of Phenazineâ€Based Polymer Cathodes. ChemSusChem, 2020, 13, 2428-2435.	3.6	41
50	Controlled Cationic Polymerization: Single-Component Initiation under Ambient Conditions. Journal of the American Chemical Society, 2019, 141, 10605-10609.	6.6	40
51	Tailor-made thermoplastic elastomers: customisable materials <i>via</i> modulation of molecular weight distributions. Chemical Science, 2020, 11, 1361-1367.	3.7	37
52	Synthesis of methylene butyrolactone polymers from itaconic acid. Journal of Polymer Science Part A, 2017, 55, 2730-2737.	2.5	35
53	Hydrogen Bond Donor Catalyzed Cationic Polymerization of Vinyl Ethers. Angewandte Chemie - International Edition, 2021, 60, 4535-4539.	7.2	32
54	Achieving molecular weight distribution shape control and broad dispersities using RAFT polymerizations. Polymer Chemistry, 2021, 12, 4910-4915.	1.9	32

#	Article	IF	Citations
55	Stille Cross-Coupling Reactions of Aryl Mesylates and Tosylates Using a Biarylphosphine Based Catalyst System. Heterocycles, 2010, 80, 1215.	0.4	29
56	Photoswitching Cationic and Radical Polymerizations: Spatiotemporal Control of Thermoset Properties. Journal of the American Chemical Society, 2021, 143, 21200-21205.	6.6	29
57	Hydrolytically-degradable homo- and copolymers of a strained exocyclic hemiacetal ester. Polymer Chemistry, 2019, 10, 4573-4583.	1.9	24
58	Effect of Structural Ordering on the Charge Storage Mechanism of p-Type Organic Electrode Materials. ACS Applied Materials & Interfaces, 2021, 13, 7135-7141.	4.0	23
59	Photocontrolled cationic degenerate chain transfer polymerizations <i>via</i> thioacetal initiators. Polymer Chemistry, 2020, 11, 6499-6504.	1.9	21
60	Kationische Polymerisation: von der Photoinitiierung zur Steuerung durch Licht. Angewandte Chemie, 2017, 129, 9798-9808.	1.6	20
61	Performance optimization and fast rate capabilities of novel polymer cathode materials through balanced electronic and ionic transport. Journal of Materials Chemistry A, 2021, 9, 5657-5663.	5.2	19
62	Controlling the shape of the molecular weight distribution for tailored tensile and rheological properties in thermoplastics and thermoplastic elastomers. Journal of Polymer Science, 2022, 60, 1291-1299.	2.0	16
63	Reversible redox controlled acids for cationic ring-opening polymerization. Chemical Science, 2021, 12, 10544-10549.	3.7	13
64	Sustainable thermoplastic elastomers produced <i>via</i> cationic RAFT polymerization. Polymer Chemistry, 2021, 12, 1097-1104.	1.9	12
65	Photoredox Catalysis in Photocontrolled Cationic Polymerizations of Vinyl Ethers. Accounts of Chemical Research, 2022, 55, 1960-1971.	7.6	12
66	Synthesis of Amorphous Monomeric Glass Mixtures for Organic Electronic Applications. Journal of Organic Chemistry, 2015, 80, 12740-12745.	1.7	10
67	Metalâ€Free Ringâ€Opening Metathesis Polymerization with Hydrazonium Initiators**. Angewandte Chemie - International Edition, 2022, 61, .	7.2	10
68	Enhancing Temporal Control and Enabling Chainâ€End Modification in Photoregulated Cationic Polymerizations by Using Iridiumâ€Based Catalysts. Angewandte Chemie, 2018, 130, 8392-8396.	1.6	9
69	Elucidation of the electrochemical behavior of phenothiazine-based polyaromatic amines. Tetrahedron, 2019, 75, 4244-4249.	1.0	7
70	Microstructural evolution of polyurea under hydrostatic pressure. Polymer, 2021, 227, 123845.	1.8	7
71	Reversible Câ€“C Bond Formation, Halide Abstraction, and Electromers in Complexes of Iron Containing Redox-Noninnocent Pyridine-imine Ligands. Inorganic Chemistry, 2021, 60, 18662-18673.	1.9	6
72	Commentary on â€œA New, Efficient and Recyclable Lanthanum(III) Oxideâ€Catalyzed Cï£¿N Crossâ€Couplingâ€• by S. Narayana Murthy, B. Madhav, V. Prakash Reddy, and Y.â€…V.â€…D. Nageswar, <i>Adv. Synth. Catal.</i> 2010, <i>352</i>, 3241â€“3245. Advanced Synthesis and Catalysis, 2010, 352, 3119-3120.	2.1	4

#	Article	IF	Citations
73	Hydrogen Bond Donor Catalyzed Cationic Polymerization of Vinyl Ethers. Angewandte Chemie, 2021, 133, 4585-4589.	1.6	1
74	Metalâ€"Free Ringâ€"Opening Metathesis Polymerization with Hydrazonium Initiators. Angewandte Chemie, 0, , .	1.6	0