Michael C Biewer

List of Publications by Year
in descending order

90 papers	2,562 citations	172457 29 h-index	223800 46 g-index
92 all docs	92 docs citations	92 times ranked	3634 citing authors

#	Article	IF	Citations
1	Enhancement in Charge Carrier Mobility by Using Furan as Spacer in Thieno[3,2-b]Pyrrole and Alkylated-Diketopyrrolopyrrole Based Conjugated Copolymers. Applied Sciences (Switzerland), 2022, 12, 3150.	2.5	4
2	Mono- and Dinuclear Î±-Diimine Nickel(II) and Palladium(II) Complexes in Câ€“S Cross-Coupling. Organometallics, 2021, 40, 83-94.	2.3	15
3	An ester functionalized wide bandgap polythiophene for organic field-effect transistors. Synthetic Metals, 2021, 277, 116767.	3.9	3
4	Self-assembly behavior of oligo(ethylene glycol) substituted polycaprolactone homopolymers. Polymer Chemistry, 2021, 12, 3544-3550.	3.9	10
5	Improved Self-Assembly of P3HT with Pyrene-Functionalized Methacrylates. ACS Omega, 2021, 6, 27325-27334.	3.5	8
6	Enhanced <scp>DOX</scp> loading in <scp>starâ€like</scp> benzyl functionalized polycaprolactone micelles. Journal of Polymer Science, 2021, 59, 3040-3052.	3.8	6
7	Incorporation of Selenopheno[3,2-b]pyrrole into Benzothiadiazole-Based Small Molecules for Organic Field-Effect Transistors. ACS Applied Electronic Materials, 2021, 3, 5335-5344.	4.3	8
8	Ligand Steric Effects of Î±-Diimine Nickel(II) and Palladium(II) Complexes in the Suzukiâ€“Miyaura Cross-Coupling Reaction. ACS Omega, 2020, 5, 24018-24032.	3.5	13
9	Enhancement of Loading Efficiency by Coloading of Doxorubicin and Quercetin in Thermoresponsive Polymeric Micelles. Biomacromolecules, 2020, 21, 1427-1436.	5.4	49
10	Peroxide-Templated Assembly of a Trimetal Neodymium Complex Single-Molecule Magnet. Inorganic Chemistry, 2020, 59, 10379-10383.	4.0	8
11	Pyrrole-Containing Semiconducting Materials: Synthesis and Applications in Organic Photovoltaics and Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2020, 12, 32209-32232.	8.0	56
12	Diketopyrrolopyrrole and benzodithiophene based near infrared-emitting small molecule for imaging applications. Synthetic Metals, 2019, 256, 116123.	3.9	5
13	Oxidative Degradation of Polypropylene Mesh in E. coli Environment. ACS Applied Bio Materials, 2019, 2, 4027-4036.	4.6	0
14	Halide-free neodymium phosphate based catalyst for highly cis-1,4 selective polymerization of dienes. RSC Advances, 2019, 9, 3345-3350.	3.6	8
15	Conductive triethylene glycol monomethyl ether substituted polythiophenes with high stability in the doped state. Journal of Polymer Science Part A, 2019, 57, 1079-1086.	2.3	4
16	Thieno[3,2-b]pyrrole and Benzo[c][1,2,5]thiadiazole Donorâ€“Acceptor Semiconductors for Organic Field-Effect Transistors. ACS Omega, 2019, 4, 19676-19682.	3.5	8
17	Histone Deacetylase Inhibitor (HDACi) Conjugated Polycaprolactone for Combination Cancer Therapy. Biomacromolecules, 2018, 19, 1082-1089.	5.4	16
18	Combination Loading of Doxorubicin and Resveratrol in Polymeric Micelles for Increased Loading Efficiency and Efficacy. ACS Biomaterials Science and Engineering, 2018, 4, 997-1004.	5.2	33

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19	Neodymiumâ€based catalysts bearing phosphate ligands for ringâ€opening polymerization of É›â€caprolactone. Journal of Polymer Science Part A, 2018, 56, 1289-1296.	2.3	10
20	Thieno[3,2-b]pyrrole-benzothiadiazole Banana-Shaped Small Molecules for Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2018, 10, 11818-11825.	8.0	35
21	Ï€-Spacer-Linked Bisthienopyrroles with Tunable Optical Properties. Synlett, 2018, 29, 2567-2571.	1.8	6
22	Synthesis and optoâ€electronic properties of functionalized pyrimidineâ€based conjugated polymers. Journal of Polymer Science Part A, 2018, 56, 2547-2553.	2.3	3
23	The effect of single atom replacement on organic thin film transistors: case of thieno[3,2-b]pyrrole vs. furo[3,2-b]pyrrole. Journal of Materials Chemistry C, 2018, 6, 10050-10058.	5.5	14
24	Incorporation of Thieno[3,2-b]pyrrole into Diketopyrrolopyrrole-Based Copolymers for Efficient Organic Field Effect Transistors. ACS Macro Letters, 2018, 7, 629-634.	4.8	22
25	Stimuli-responsive poly (Îµ-caprolactone)s for drug delivery applications. , 2018, , 501-529.		3
26	Influence of functionalized side chains of polythiophene diblock copolymers on the performance of CdSe quantum dot hybrid solar cells. Journal of Materials Chemistry A, 2017, 5, 2473-2477.	10.3	8
27	HDAC inhibitor conjugated polymeric prodrug micelles for doxorubicin delivery. Journal of Materials Chemistry B, 2017, 5, 2106-2114.	5.8	18
28	Systematic variation of thiophene substituents in photochromic spiropyrans. Photochemical and Photobiological Sciences, 2017, 16, 1057-1062.	2.9	3
29	Recent advances in aliphatic polyesters for drug delivery applications. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2017, 9, e1446.	6.1	78
30	Effect of thiophene spacers in benzodithiopheneâ€based polymers for organic electronics. Journal of Polymer Science Part A, 2017, 55, 3942-3948.	2.3	5
31	Evaluation of (E)-1,2-di(furan-2-yl)ethene as building unit in diketopyrrolopyrrole alternating copolymers for transistors. Polymer Chemistry, 2017, 8, 6181-6187.	3.9	22
32	Role of polythiophenes as electroactive materials. Journal of Polymer Science Part A, 2017, 55, 3327-3346.	2.3	42
33	Benzo[1,2-b:4,5-bâ€²]difuran and furan substituted diketopyrrolopyrrole alternating copolymer for organic photovoltaics with high fill factor. Journal of Materials Chemistry A, 2017, 5, 15591-15600.	10.3	25
34	Thermoresponsive star-like Î³-substituted poly(caprolactone)s for micellar drug delivery. Journal of Materials Chemistry B, 2017, 5, 5632-5640.	5.8	21
35	Determination of absolute molecular weight of regioregular poly(3â€hexylthiophene) by ¹<scp>Hâ€NMR</scp> analysis. Journal of Polymer Science Part A, 2017, 55, 79-82.	2.3	11
36	Enhancing Long-Range Ordering of P3HT by Incorporating Thermotropic Biphenyl Mesogens via ATRP. Macromolecules, 2016, 49, 6846-6857.	4.8	8

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37	Synthesis of linear and star-like poly(Îµ-caprolactone)-b-poly{Î³-2-[2-(2-methoxy-ethoxy)ethoxy]ethoxy-Îµ-caprolactone} amphiphilic block copolymers using zinc undecylenate. Journal of Polymer Science Part A, 2016, 54, 3601-3608.	2.3	16
38	Benzothiadiazole building units in solution-processable small molecules for organic photovoltaics. Journal of Materials Chemistry A, 2016, 4, 15771-15787.	10.3	76
39	Systematic Investigation of Benzodithiophene-Benzothiadiazole Isomers for Organic Photovoltaics. ACS Applied Materials & Interfaces, 2016, 8, 33025-33033.	8.0	16
40	PEG based anti-cancer drug conjugated prodrug micelles for the delivery of anti-cancer agents. Journal of Materials Chemistry B, 2016, 4, 360-370.	5.8	60
41	Fine-tuning thermoresponsive functional poly(Îµ-caprolactone)s to enhance micelle stability and drug loading. Journal of Materials Chemistry B, 2015, 3, 1779-1787.	5.8	30
42	Synthesis and characterization of side-chain thermotropic liquid crystalline copolymers containing regioregular poly(3-hexylthiophene). Polymer, 2015, 72, 317-326.	3.8	11
43	Recent developments in micellar drug carriers featuring substituted poly(Îµ-caprolactone)s. Polymer Chemistry, 2015, 6, 2369-2381.	3.9	85
44	Synthesis and characterization of valproic acid ester pro-drug micelles via an amphiphilic polycaprolactone block copolymer design. Polymer Chemistry, 2015, 6, 2386-2389.	3.9	13
45	Benzodifuran and benzodithiophene donorâ€“acceptor polymers for bulk heterojunction solar cells. Journal of Materials Chemistry A, 2015, 3, 6980-6989.	10.3	42
46	Developments of furan and benzodifuran semiconductors for organic photovoltaics. Journal of Materials Chemistry A, 2015, 3, 6244-6257.	10.3	74
47	Donorâ€“acceptor semiconducting polymers based on pyromellitic diimide. Journal of Polymer Science Part A, 2015, 53, 1617-1622.	2.3	6
48	Poly(3-Hexylthiophene) Nanostructured Materials for Organic Electronics Applications. Journal of Nanoscience and Nanotechnology, 2014, 14, 1033-1050.	0.9	79
49	Nitrogen containing graphene-like structures from pyrolysis of pyrimidine polymers for polymer/graphene hybrid field effect transistors. RSC Advances, 2014, 4, 41997-42001.	3.6	7
50	A semiconducting liquid crystalline block copolymer containing regioregular poly(3-hexylthiophene) and nematic poly(n-hexyl isocyanate) and its application in bulk heterojunction solar cells. Journal of Materials Chemistry A, 2014, 2, 16148-16156.	10.3	22
51	Benzodithiophene homopolymers synthesized by Grignard metathesis (GRIM) and Stille coupling polymerizations. Journal of Materials Chemistry A, 2014, 2, 8773-8781.	10.3	14
52	Self-Assembly of Poly(3-hexylthiophene)-block-poly(Î³-benzyl-<scp>L</scp>-glutamate) within Solution-Cast Films and Nanofibers. Macromolecular Materials and Engineering, 2014, 299, 1484-1493.	3.6	5
53	Phenothiazine Semiconducting Polymer for Lightâ€Emitting Diodes. Macromolecular Chemistry and Physics, 2013, 214, 572-577.	2.2	14
54	Structural variation of donorâ€“acceptor copolymers containing benzodithiophene with bithienyl substituents to achieve high open circuit voltage in bulk heterojunction solar cells. Journal of Materials Chemistry A, 2013, 1, 15535.	10.3	33

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55	Towards smart polymeric drug carriers: self-assembling Î³-substituted polycaprolactones with highly tunable thermoresponsive behavior. Journal of Materials Chemistry B, 2013, 1, 6532.	5.8	30
56	Donorâ€“acceptor semiconducting polymers for organic solar cells. Journal of Polymer Science Part A, 2013, 51, 743-768.	2.3	206
57	Synthesis and characterization of novel semiconducting polymers containing pyrimidine. Polymer Chemistry, 2013, 4, 5216.	3.9	26
58	Synthesis and photovoltaic performance of donorâ€“acceptor polymers containing benzo[1,2â€‹b:4,5â€‹bâ€²]dithiophene with thienyl substituents. Journal of Polymer Science Part A, 2013, 51, 2622-2630.	2.3	16
59	A Combined Experimental and Computational Study of the Substituent Effect on Micellar Behavior of Î³-Substituted Thermoresponsive Amphiphilic Poly(Îµ-caprolactone)s. Macromolecules, 2013, 46, 4829-4838.	4.8	41
60	Non-Dependence of Polymer to PCBM Weight Ratio on the Performance of Bulk Heterojunction Solar Cells with Benzodithiophene Donor Polymer. Science of Advanced Materials, 2013, 5, 512-518.	0.7	3
61	Synthesis of Functionalized Poly(caprolactone)s and Their Application as Micellar Drug Delivery Systems. Current Organic Chemistry, 2013, 17, 930-942.	1.6	28
62	Thermally Controlled Release of Anticancer Drug from Self-Assembled Î³-Substituted Amphiphilic Poly(Îµ-caprolactone) Micellar Nanoparticles. Biomacromolecules, 2012, 13, 2163-2173.	5.4	124
63	Influence of the Alkyl Substituents Spacing on the Solar Cell Performance of Benzodithiophene Semiconducting Polymers. Macromolecules, 2012, 45, 772-780.	4.8	26
64	Electronic Properties-Morphology Correlation of a Rodâ€“Rod Semiconducting Liquid Crystalline Block Copolymer Containing Poly(3-hexylthiophene). Langmuir, 2012, 28, 12762-12770.	3.5	28
65	Donorâ€“Acceptor Semiconducting Polymers Containing Benzodithiophene with Bithienyl Substituents. Macromolecules, 2012, 45, 7855-7862.	4.8	44
66	Synthesis and optoelectronic properties of novel benzodifuran semiconducting polymers. Journal of Polymer Science Part A, 2012, 50, 4316-4324.	2.3	18
67	Benzo[1,2â€‹b:4,5â€‹bâ€²]dithiophene Building Block for the Synthesis of Semiconducting Polymers. Macromolecular Rapid Communications, 2012, 33, 9-20.	3.9	72
68	Temperature-sensitive aliphatic polyesters: synthesis and characterization of Î³-substituted caprolactone monomers and polymers. Journal of Materials Chemistry, 2011, 21, 10623.	6.7	41
69	Block copolymer containing poly(3â€hexylthiophene) and poly(4â€vinylpyridine): Synthesis and its interaction with CdSe quantum dots for hybrid organic applications. Journal of Polymer Science Part A, 2011, 49, 1802-1808.	2.3	47
70	Enhancement of OFET performance of semiconducting polymers containing benzodithiophene upon surface treatment with organic silanes. Journal of Polymer Science Part A, 2011, 49, 2292-2302.	2.3	34
71	Synthesis, characterization, and computational modeling of benzodithiophene donorâ€“acceptor semiconducting polymers. Journal of Polymer Science Part A, 2011, 49, 4172-4179.	2.3	11
72	Synthesis and Characterization of a Block Copolymer Containing Regioregular Poly(3â€hexylthiophene) and Poly(Î³â€benzylâ€‹<scp>L</scp>â€glutamate). Macromolecular Rapid Communications, 2011, 32, 302-308.	3.9	36

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73	Nickel(II) Î±â€Diimine Catalyst for Grignard Metathesis (GRIM) Polymerization. Macromolecular Rapid Communications, 2011, 32, 1748-1752.	3.9	33
74	Amphiphilic Block Copolymers Containing Regioregular Poly(3â€hexylthiophene) and Poly(2â€ethylâ€2â€oxazoline). Macromolecular Chemistry and Physics, 2010, 211, 1291-1297.	2.2	40
75	Synthesis and characterization of polythiophenes with alkenyl substituents. Polymer Chemistry, 2010, 1, 1624.	3.9	18
76	Synthesis and Electronic Properties of Semiconducting Polymers Containing Benzodithiophene with Alkyl Phenylethynyl Substituents. Macromolecules, 2010, 43, 8063-8070.	4.8	63
77	Polymers Containing Rigid Benzodithiophene Repeating Unit with Extended Electron Delocalization. Organic Letters, 2009, 11, 4422-4425.	4.6	32
78	Poly(3-hexylthiophene)â^'CdSe Quantum Dot Bulk Heterojunction Solar Cells: Influence of the Functional End-Group of the Polymer. Macromolecules, 2009, 42, 3845-3848.	4.8	75
79	Chiral SmA* materials for display applications?. Journal of the Society for Information Display, 2007, 15, 585-588.	2.1	11
80	Monitoring surface reactions optically in a self-assembled monolayer with a photochromic core. Tetrahedron Letters, 2005, 46, 349-351.	1.4	9
81	Solid-State Interactions in Photochromic Hostâ^'Guest Inclusion Complexesâ€. Crystal Growth and Design, 2005, 5, 2043-2045.	3.0	29
82	Topochemical strategies and experimental results for the rational synthesis of carbon nanotubes of one specified type. Synthetic Metals, 2004, 141, 87-92.	3.9	19
83	Observation of photochromic Î³-cyclodextrin hostâ€“guest inclusion complexes. Chemical Communications, 2002, , 1398-1399.	4.1	14
84	Stabilization of an Organic Photochromic Material by Incorporation in an Organogel. Chemistry of Materials, 2002, 14, 3745-3750.	6.7	72
85	Studying monolayer/solvent interactions with a photochromic compound in a self-assembled monolayer. Tetrahedron Letters, 2002, 43, 5933-5935.	1.4	9
86	1H and17O NMR Detection of a Lanthanide-Bound Water Molecule at Ambient Temperatures in Pure Water as Solvent. Inorganic Chemistry, 2001, 40, 4284-4290.	4.0	63
87	Differentiating Possible Surface Properties in an Unsymmetrical Crystal by Contact Angle Measurements. Crystal Growth and Design, 2001, 1, 199-201.	3.0	2
88	Preparation of self-assembled monolayers with specific intermolecular interactions. Tetrahedron Letters, 2000, 41, 3527-3530.	1.4	15
89	An exceptionally simple method of preparation of biradicals. 2. Low-temperature fluorescence spectra and ambient temperature laser-induced fluorescence spectra of 1,3-, 1,6-, 2,6-, and 2,7-naphthoquinodimethane. Journal of the American Chemical Society, 1991, 113, 616-620.	13.7	16
90	A carbene to biradical rearrangement: reaction paths from (8-methyl-1-naphthyl)carbene to acenaphthene. Journal of the American Chemical Society, 1991, 113, 8069-8073.	13.7	17