

Michael C Biewer

List of Publications by Year in descending order

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90
papers

2,562
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172457

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223800

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92
docs citations

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times ranked

3634
citing authors

#	ARTICLE	IF	CITATIONS
1	Donor-acceptor semiconducting polymers for organic solar cells. <i>Journal of Polymer Science Part A</i> , 2013, 51, 743-768.	2.3	206
2	Thermally Controlled Release of Anticancer Drug from Self-Assembled β -Substituted Amphiphilic Poly(μ -caprolactone) Micellar Nanoparticles. <i>Biomacromolecules</i> , 2012, 13, 2163-2173.	5.4	124
3	Recent developments in micellar drug carriers featuring substituted poly(μ -caprolactone)s. <i>Polymer Chemistry</i> , 2015, 6, 2369-2381.	3.9	85
4	Poly(3-Hexylthiophene) Nanostructured Materials for Organic Electronics Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 1033-1050.	0.9	79
5	Recent advances in aliphatic polyesters for drug delivery applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2017, 9, e1446.	6.1	78
6	Benzothiadiazole building units in solution-processable small molecules for organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15771-15787.	10.3	76
7	Poly(3-hexylthiophene)-CdSe Quantum Dot Bulk Heterojunction Solar Cells: Influence of the Functional End-Group of the Polymer. <i>Macromolecules</i> , 2009, 42, 3845-3848.	4.8	75
8	Developments of furan and benzodifuran semiconductors for organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6244-6257.	10.3	74
9	Stabilization of an Organic Photochromic Material by Incorporation in an Organogel. <i>Chemistry of Materials</i> , 2002, 14, 3745-3750.	6.7	72
10	Benzo[1,2- <i>b</i> :4,5- <i>b'</i>]dithiophene Building Block for the Synthesis of Semiconducting Polymers. <i>Macromolecular Rapid Communications</i> , 2012, 33, 9-20.	3.9	72
11	¹ H and ¹⁷ O NMR Detection of a Lanthanide-Bound Water Molecule at Ambient Temperatures in Pure Water as Solvent. <i>Inorganic Chemistry</i> , 2001, 40, 4284-4290.	4.0	63
12	Synthesis and Electronic Properties of Semiconducting Polymers Containing Benzodithiophene with Alkyl Phenylethynyl Substituents. <i>Macromolecules</i> , 2010, 43, 8063-8070.	4.8	63
13	PEG based anti-cancer drug conjugated prodrug micelles for the delivery of anti-cancer agents. <i>Journal of Materials Chemistry B</i> , 2016, 4, 360-370.	5.8	60
14	Pyrrole-Containing Semiconducting Materials: Synthesis and Applications in Organic Photovoltaics and Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32209-32232.	8.0	56
15	Enhancement of Loading Efficiency by Coloaded of Doxorubicin and Quercetin in Thermoresponsive Polymeric Micelles. <i>Biomacromolecules</i> , 2020, 21, 1427-1436.	5.4	49
16	Block copolymer containing poly(3-hexylthiophene) and poly(4-vinylpyridine): Synthesis and its interaction with CdSe quantum dots for hybrid organic applications. <i>Journal of Polymer Science Part A</i> , 2011, 49, 1802-1808.	2.3	47
17	Donor-Acceptor Semiconducting Polymers Containing Benzodithiophene with Bithienyl Substituents. <i>Macromolecules</i> , 2012, 45, 7855-7862.	4.8	44
18	Benzodifuran and benzodithiophene donor-acceptor polymers for bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6980-6989.	10.3	42

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19	Role of polythiophenes as electroactive materials. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3327-3346.	2.3	42
20	Temperature-sensitive aliphatic polyesters: synthesis and characterization of \hat{I}^3 -substituted caprolactone monomers and polymers. <i>Journal of Materials Chemistry</i> , 2011, 21, 10623.	6.7	41
21	A Combined Experimental and Computational Study of the Substituent Effect on Micellar Behavior of \hat{I}^3 -Substituted Thermoresponsive Amphiphilic Poly(\hat{I}^{μ} -caprolactone)s. <i>Macromolecules</i> , 2013, 46, 4829-4838.	4.8	41
22	Amphiphilic Block Copolymers Containing Regioregular Poly(3-hexylthiophene) and Poly(2-ethyl-2-oxazoline). <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 1291-1297.	2.2	40
23	Synthesis and Characterization of a Block Copolymer Containing Regioregular Poly(3-hexylthiophene) and Poly(\hat{I}^3 -benzyl-L-glutamate). <i>Macromolecular Rapid Communications</i> , 2011, 32, 302-308.	3.9	36
24	Thieno[3,2- <i>b</i>]pyrrole-benzothiadiazole Banana-Shaped Small Molecules for Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11818-11825.	8.0	35
25	Enhancement of OFET performance of semiconducting polymers containing benzodithiophene upon surface treatment with organic silanes. <i>Journal of Polymer Science Part A</i> , 2011, 49, 2292-2302.	2.3	34
26	Nickel(II) \hat{I}^{\pm} -Diimine Catalyst for Grignard Metathesis (GRIM) Polymerization. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1748-1752.	3.9	33
27	Structural variation of donor-acceptor copolymers containing benzodithiophene with bithienyl substituents to achieve high open circuit voltage in bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15535.	10.3	33
28	Combination Loading of Doxorubicin and Resveratrol in Polymeric Micelles for Increased Loading Efficiency and Efficacy. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 997-1004.	5.2	33
29	Polymers Containing Rigid Benzodithiophene Repeating Unit with Extended Electron Delocalization. <i>Organic Letters</i> , 2009, 11, 4422-4425.	4.6	32
30	Towards smart polymeric drug carriers: self-assembling \hat{I}^3 -substituted polycaprolactones with highly tunable thermoresponsive behavior. <i>Journal of Materials Chemistry B</i> , 2013, 1, 6532.	5.8	30
31	Fine-tuning thermoresponsive functional poly(\hat{I}^{μ} -caprolactone)s to enhance micelle stability and drug loading. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1779-1787.	5.8	30
32	Solid-State Interactions in Photochromic Host-Guest Inclusion Complexes. <i>Crystal Growth and Design</i> , 2005, 5, 2043-2045.	3.0	29
33	Electronic Properties-Morphology Correlation of a Rod-Rod Semiconducting Liquid Crystalline Block Copolymer Containing Poly(3-hexylthiophene). <i>Langmuir</i> , 2012, 28, 12762-12770.	3.5	28
34	Synthesis of Functionalized Poly(caprolactone)s and Their Application as Micellar Drug Delivery Systems. <i>Current Organic Chemistry</i> , 2013, 17, 930-942.	1.6	28
35	Influence of the Alkyl Substituents Spacing on the Solar Cell Performance of Benzodithiophene Semiconducting Polymers. <i>Macromolecules</i> , 2012, 45, 772-780.	4.8	26
36	Synthesis and characterization of novel semiconducting polymers containing pyrimidine. <i>Polymer Chemistry</i> , 2013, 4, 5216.	3.9	26

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37	Benzo[1,2-b:4,5-b'€²]difuran and furan substituted diketopyrrolopyrrole alternating copolymer for organic photovoltaics with high fill factor. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15591-15600.	10.3	25
38	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. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16148-16156.	10.3	22
39	Evaluation of (E)-1,2-di(furan-2-yl)ethene as building unit in diketopyrrolopyrrole alternating copolymers for transistors. <i>Polymer Chemistry</i> , 2017, 8, 6181-6187.	3.9	22
40	Incorporation of Thieno[3,2-b]pyrrole into Diketopyrrolopyrrole-Based Copolymers for Efficient Organic Field Effect Transistors. <i>ACS Macro Letters</i> , 2018, 7, 629-634.	4.8	22
41	Thermoresponsive star-like $\hat{1}^3$ -substituted poly(caprolactone)s for micellar drug delivery. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5632-5640.	5.8	21
42	Topochemical strategies and experimental results for the rational synthesis of carbon nanotubes of one specified type. <i>Synthetic Metals</i> , 2004, 141, 87-92.	3.9	19
43	Synthesis and characterization of polythiophenes with alkenyl substituents. <i>Polymer Chemistry</i> , 2010, 1, 1624.	3.9	18
44	Synthesis and optoelectronic properties of novel benzodifuran semiconducting polymers. <i>Journal of Polymer Science Part A</i> , 2012, 50, 4316-4324.	2.3	18
45	HDAC inhibitor conjugated polymeric prodrug micelles for doxorubicin delivery. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2106-2114.	5.8	18
46	A carbene to biradical rearrangement: reaction paths from (8-methyl-1-naphthyl)carbene to acenaphthene. <i>Journal of the American Chemical Society</i> , 1991, 113, 8069-8073.	13.7	17
47	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. <i>Journal of the American Chemical Society</i> , 1991, 113, 616-620.	13.7	16
48	Synthesis and photovoltaic performance of donor-acceptor polymers containing benzo[1,2-a'€i>b</i>:4,5-a'€i>b</i>-dithiophene with thienyl substituents. <i>Journal of Polymer Science Part A</i> , 2013, 51, 2622-2630.	2.3	16
49	Synthesis of linear and star-like poly($\hat{1}^{\mu}$ -caprolactone)- <i>b</i> -poly{ $\hat{1}^3$ -2-[2-(2-methoxy-ethoxy)ethoxy]ethoxy- $\hat{1}^{\mu}$ -caprolactone} amphiphilic block copolymers using zinc undecylenate. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3601-3608.	2.3	16
50	Systematic Investigation of Benzodithiophene-Benzothiadiazole Isomers for Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33025-33033.	8.0	16
51	Histone Deacetylase Inhibitor (HDACi) Conjugated Polycaprolactone for Combination Cancer Therapy. <i>Biomacromolecules</i> , 2018, 19, 1082-1089.	5.4	16
52	Preparation of self-assembled monolayers with specific intermolecular interactions. <i>Tetrahedron Letters</i> , 2000, 41, 3527-3530.	1.4	15
53	Mono- and Dinuclear $\hat{1}^{\pm}$ -Diimine Nickel(II) and Palladium(II) Complexes in C-S Cross-Coupling. <i>Organometallics</i> , 2021, 40, 83-94.	2.3	15
54	Observation of photochromic $\hat{1}^3$ -cyclodextrin host-guest inclusion complexes. <i>Chemical Communications</i> , 2002, , 1398-1399.	4.1	14

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55	Phenothiazine Semiconducting Polymer for Light-Emitting Diodes. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 572-577.	2.2	14
56	Benzodithiophene homopolymers synthesized by Grignard metathesis (GRIM) and Stille coupling polymerizations. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8773-8781.	10.3	14
57	The effect of single atom replacement on organic thin film transistors: case of thieno[3,2-b]pyrrole vs. furo[3,2-b]pyrrole. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10050-10058.	5.5	14
58	Synthesis and characterization of valproic acid ester pro-drug micelles via an amphiphilic polycaprolactone block copolymer design. <i>Polymer Chemistry</i> , 2015, 6, 2386-2389.	3.9	13
59	Ligand Steric Effects of I^{\pm} -Diimine Nickel(II) and Palladium(II) Complexes in the Suzuki-Miyaura Cross-Coupling Reaction. <i>ACS Omega</i> , 2020, 5, 24018-24032.	3.5	13
60	Chiral SmA* materials for display applications?. <i>Journal of the Society for Information Display</i> , 2007, 15, 585-588.	2.1	11
61	Synthesis, characterization, and computational modeling of benzodithiophene donor-acceptor semiconducting polymers. <i>Journal of Polymer Science Part A</i> , 2011, 49, 4172-4179.	2.3	11
62	Synthesis and characterization of side-chain thermotropic liquid crystalline copolymers containing regioregular poly(3-hexylthiophene). <i>Polymer</i> , 2015, 72, 317-326.	3.8	11
63	Determination of absolute molecular weight of regioregular poly(3-hexylthiophene) by $^1\text{H-NMR}$ analysis. <i>Journal of Polymer Science Part A</i> , 2017, 55, 79-82.	2.3	11
64	Neodymium-based catalysts bearing phosphate ligands for ring-opening polymerization of ϵ -caprolactone. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1289-1296.	2.3	10
65	Self-assembly behavior of oligo(ethylene glycol) substituted polycaprolactone homopolymers. <i>Polymer Chemistry</i> , 2021, 12, 3544-3550.	3.9	10
66	Studying monolayer/solvent interactions with a photochromic compound in a self-assembled monolayer. <i>Tetrahedron Letters</i> , 2002, 43, 5933-5935.	1.4	9
67	Monitoring surface reactions optically in a self-assembled monolayer with a photochromic core. <i>Tetrahedron Letters</i> , 2005, 46, 349-351.	1.4	9
68	Enhancing Long-Range Ordering of P3HT by Incorporating Thermotropic Biphenyl Mesogens via ATRP. <i>Macromolecules</i> , 2016, 49, 6846-6857.	4.8	8
69	Influence of functionalized side chains of polythiophene diblock copolymers on the performance of CdSe quantum dot hybrid solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2473-2477.	10.3	8
70	Halide-free neodymium phosphate based catalyst for highly <i>cis</i> -1,4 selective polymerization of dienes. <i>RSC Advances</i> , 2019, 9, 3345-3350.	3.6	8
71	Thieno[3,2- <i>b</i>]pyrrole and Benzo[<i>c</i>][1,2,5]thiadiazole Donor-Acceptor Semiconductors for Organic Field-Effect Transistors. <i>ACS Omega</i> , 2019, 4, 19676-19682.	3.5	8
72	Peroxide-Templated Assembly of a Trimetal Neodymium Complex Single-Molecule Magnet. <i>Inorganic Chemistry</i> , 2020, 59, 10379-10383.	4.0	8

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73	Improved Self-Assembly of P3HT with Pyrene-Functionalized Methacrylates. ACS Omega, 2021, 6, 27325-27334.	3.5	8
74	Incorporation of Selenopheno[3,2- <i>b</i>]pyrrole into Benzothiadiazole-Based Small Molecules for Organic Field-Effect Transistors. ACS Applied Electronic Materials, 2021, 3, 5335-5344.	4.3	8
75	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
76	Donor-acceptor semiconducting polymers based on pyromellitic diimide. Journal of Polymer Science Part A, 2015, 53, 1617-1622.	2.3	6
77	Ĥ-Spacer-Linked Bisthienopyrroles with Tunable Optical Properties. Synlett, 2018, 29, 2567-2571.	1.8	6
78	Enhanced DOX loading in star-like benzyl functionalized polycaprolactone micelles. Journal of Polymer Science, 2021, 59, 3040-3052.	3.8	6
79	Self-Assembly of Poly(3-hexylthiophene)-block-poly(β -benzyl-L-glutamate) within Solution-Cast Films and Nanofibers. Macromolecular Materials and Engineering, 2014, 299, 1484-1493.	3.6	5
80	Effect of thiophene spacers in benzodithiophene-based polymers for organic electronics. Journal of Polymer Science Part A, 2017, 55, 3942-3948.	2.3	5
81	Diketopyrrolopyrrole and benzodithiophene based near infrared-emitting small molecule for imaging applications. Synthetic Metals, 2019, 256, 116123.	3.9	5
82	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
83	Enhancement in Charge Carrier Mobility by Using Furan as Spacer in Thieno[3,2- <i>b</i>]Pyrrole and Alkylated-Diketopyrrolopyrrole Based Conjugated Copolymers. Applied Sciences (Switzerland), 2022, 12, 3150.	2.5	4
84	Systematic variation of thiophene substituents in photochromic spiropyrans. Photochemical and Photobiological Sciences, 2017, 16, 1057-1062.	2.9	3
85	Synthesis and optoelectronic properties of functionalized pyrimidine-based conjugated polymers. Journal of Polymer Science Part A, 2018, 56, 2547-2553.	2.3	3
86	Stimuli-responsive poly(μ -caprolactone)s for drug delivery applications. , 2018, , 501-529.		3
87	An ester functionalized wide bandgap polythiophene for organic field-effect transistors. Synthetic Metals, 2021, 277, 116767.	3.9	3
88	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
89	Differentiating Possible Surface Properties in an Unsymmetrical Crystal by Contact Angle Measurements. Crystal Growth and Design, 2001, 1, 199-201.	3.0	2
90	Oxidative Degradation of Polypropylene Mesh in <i>E. coli</i> Environment. ACS Applied Bio Materials, 2019, 2, 4027-4036.	4.6	0