

Erik B Berda

List of Publications by Year in descending order

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62
papers

2,533
citations

236925

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49
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all docs

65
docs citations

65
times ranked

1843
citing authors

#	ARTICLE	IF	CITATIONS
1	Metastable Supramolecular Polymer Nanoparticles via Intramolecular Collapse of Single Polymer Chains. <i>Journal of the American Chemical Society</i> , 2009, 131, 6964-6966.	13.7	292
2	A brief user's guide to single-chain nanoparticles. <i>Polymer Chemistry</i> , 2015, 6, 181-197.	3.9	251
3	What Is Next in Single-Chain Nanoparticles?. <i>Macromolecules</i> , 2016, 49, 2-14.	4.8	216
4	Single-chain polymer nanoparticles via reversible disulfide bridges. <i>Polymer Chemistry</i> , 2012, 3, 3068.	3.9	150
5	Toward Controlling Folding in Synthetic Polymers: Fabricating and Characterizing Supramolecular Single-Chain Nanoparticles. <i>Macromolecules</i> , 2010, 43, 1430-1437.	4.8	147
6	Intra-chain Photodimerization of Pendant Anthracene Units as an Efficient Route to Single-chain Nanoparticle Fabrication. <i>Macromolecular Rapid Communications</i> , 2014, 35, 249-253.	3.9	126
7	Precision polyolefin structure: Modeling polyethylene containing alkyl branches. <i>Polymer</i> , 2008, 49, 2985-2995.	3.8	83
8	Controlled folding of a novel electroactive polyolefin via multiple sequential orthogonal intra-chain interactions. <i>Chemical Communications</i> , 2013, 49, 4178-4180.	4.1	80
9	Tuning the size of supramolecular single-chain polymer nanoparticles. <i>Journal of Polymer Science Part A</i> , 2011, 49, 118-126.	2.3	71
10	Protein-like structure and activity in synthetic polymers. <i>Journal of Polymer Science Part A</i> , 2017, 55, 191-206.	2.3	67
11	Toward a tunable synthetic [FeFe] hydrogenase mimic: single-chain nanoparticles functionalized with a single diiron cluster. <i>Polymer Chemistry</i> , 2015, 6, 7646-7651.	3.9	64
12	Novel electroactive poly(arylene ether sulfone) copolymers containing pendant oligoaniline groups: Synthesis and properties. <i>Journal of Polymer Science Part A</i> , 2011, 49, 1605-1614.	2.3	50
13	Scalable Synthesis of Single-Chain Nanoparticles under Mild Conditions. <i>Macromolecules</i> , 2017, 50, 2996-3003.	4.8	45
14	100th Anniversary of Macromolecular Science Viewpoint: Re-examining Single-Chain Nanoparticles. <i>ACS Macro Letters</i> , 2020, 9, 1836-1843.	4.8	44
15	Precision branching in ethylene copolymers: Synthesis and thermal behavior. <i>Journal of Polymer Science Part A</i> , 2006, 44, 4981-4989.	2.3	40
16	Precisely Defined Amphiphilic Graft Copolymers. <i>Macromolecules</i> , 2007, 40, 8547-8552.	4.8	38
17	Exploring structural effects in single-chain "folding"-mediated by intramolecular thermal Diels-Alder chemistry. <i>Polymer Chemistry</i> , 2017, 8, 5120-5128.	3.9	38
18	ADMET Polycondensation of Diketopiperazine-Based Dienes. Polymerization Behavior and Effect of Diketopiperazine on the Properties of the Formed Polymers. <i>Macromolecules</i> , 2008, 41, 6041-6046.	4.8	37

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19	Influence of Branch Incorporation into the Lamella Crystal on the Crystallization Behavior of Polyethylene with Precisely Spaced Branches. <i>Macromolecules</i> , 2013, 46, 4438-4446.	4.8	33
20	Poly(methyl methacrylate)-graft-poly- [bis(trifluoroethoxy)phosphazene] Copolymers: Synthesis, Characterization, and Effects of Polyphosphazene Incorporation. <i>Macromolecules</i> , 2004, 37, 5824-5829.	4.8	31
21	Single-chain nanoparticles containing sequence-defined segments: using primary structure control to promote secondary and tertiary structures in synthetic protein mimics. <i>Polymer Chemistry</i> , 2017, 8, 5829-5835.	3.9	31
22	Inducing Pendant Group Interactions in Precision Polyolefins: Synthesis and Thermal Behavior. <i>Macromolecules</i> , 2008, 41, 5116-5122.	4.8	30
23	A novel poly(aryl ether) containing azobenzene chromophore and pendant oligoaniline: Synthesis and electrochromic properties. <i>Electrochimica Acta</i> , 2012, 60, 253-258.	5.2	28
24	Electroactive polyurea bearing oligoaniline pendants: Electrochromic and anticorrosive properties. <i>Polymer</i> , 2015, 58, 60-66.	3.8	27
25	Synthesis and Characterization of Novel Solid Polymer Electrolytes Based on Poly(7-oxanorbornenes) with Pendent Oligoethyleneoxy-Functionalized Cyclotriphosphazenes. <i>Macromolecules</i> , 2003, 36, 3563-3569.	4.8	26
26	Unusual Crystallization Behavior of Polyethylene Having Precisely Spaced Branches. <i>Macromolecules</i> , 2011, 44, 4030-4034.	4.8	25
27	Fabrication of electroactive oligoaniline functionalized poly(amic acid) nanofibers for application as an ammonia sensor. <i>RSC Advances</i> , 2013, 3, 4059.	3.6	25
28	Porphyrin-Cored Polymer Nanoparticles: Macromolecular Models for Heme Iron Coordination. <i>Inorganic Chemistry</i> , 2016, 55, 9493-9496.	4.0	25
29	Cross Nucleation in Polyethylene with Precisely Spaced Ethyl Branches. <i>ACS Macro Letters</i> , 2012, 1, 772-775.	4.8	24
30	Efficient fabrication of polymer nanoparticles via sonogashira cross-linking of linear polymers in dilute solution. <i>Journal of Polymer Science Part A</i> , 2016, 54, 209-217.	2.3	24
31	Multifunctional hyperbranched polyamide: Synthesis and properties. <i>Polymer</i> , 2013, 54, 3223-3229.	3.8	23
32	Zippering Polymers into Nanoparticles via Intrachain Alternating Radical Copolymerization. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 501-508.	2.2	22
33	Intra-chain radical chemistry as a route to poly(norbornene imide) single-chain nanoparticles: structural considerations and the role of adventitious oxygen. <i>Polymer Chemistry</i> , 2015, 6, 5555-5559.	3.9	21
34	Characterization of single-chain polymer folding using size exclusion chromatography with multiple modes of detection. <i>Applied Petrochemical Research</i> , 2015, 5, 9-17.	1.3	19
35	Probing the Effects of Hydrophilic Branch Size, Distribution, and Connectivity in Amphiphilic Polyethylene. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 1601-1611.	2.2	18
36	Fabrication of electrochemically responsive surface relief diffraction gratings based on a multifunctional polyamide containing oligoaniline and azo groups. <i>Journal of Materials Chemistry</i> , 2011, 21, 18317.	6.7	18

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37	Design and synthesis of multicolor electrochromic polymers based on oligoaniline and viologen/phenothiazine groups. <i>European Polymer Journal</i> , 2020, 138, 109979.	5.4	18
38	The elastic properties and piezochromism of polyimide films under high pressure. <i>Polymer</i> , 2016, 90, 1-8.	3.8	16
39	Electrochromic/Electrofluorochromic Supercapacitor Based on a Network Polysiloxane Bearing Oligoaniline and Cyanophenethylene Groups. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3024-3033.	4.4	16
40	Synthesis and properties of multifunctional poly(amic acid) with oligoaniline and fluorene groups. <i>Colloid and Polymer Science</i> , 2013, 291, 2631-2637.	2.1	15
41	Tuning the Fluorescent Response of a Novel Electroactive Polymer with Multiple Stimuli. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1648-1653.	3.9	15
42	Multicolor electrochromic performance of electroactive poly(amic acid) containing pendant oligoaniline, azobenzene and sulfonic acid groups. <i>Electrochimica Acta</i> , 2013, 89, 594-599.	5.2	15
43	An efficient fluorescent sensor for redox active species based on novel poly(aryl ether) containing electroactive pendant. <i>Journal of Materials Chemistry</i> , 2012, 22, 3028.	6.7	14
44	Customizable molecular recognition: advancements in design, synthesis, and application of molecularly imprinted polymers. <i>Polymer Chemistry</i> , 2022, 13, 3387-3411.	3.9	13
45	Synthesis, electrochemical properties and inhibition performance of water-soluble self-doped oligoaniline derivative. <i>Electrochimica Acta</i> , 2013, 93, 107-113.	5.2	12
46	Densely Functionalized Pendant Oligoaniline Bearing Poly(oxanorbornenes): Synthesis and Electronic Properties. <i>Macromolecules</i> , 2015, 48, 5054-5057.	4.8	10
47	Interchain interactions in poly(benzo[1,2-b:4,3-b'']dithiophene)s and the effect of substituents on aggregation. <i>Journal of Materials Chemistry</i> , 2009, 19, 4197.	6.7	9
48	A multifunctional poly(aryl ether) with oligoaniline and fluorene pendants: Synthesis, electrochromic performance, and tunable fluorescent properties. <i>Journal of Polymer Science Part A</i> , 2012, 50, 2330-2336.	2.3	9
49	Electrochemical performance of electroactive poly(amic acid)-Cu ²⁺ composites. <i>Applied Surface Science</i> , 2017, 392, 1-7.	6.1	8
50	Virtual Issue: Next-Generation Smart Materials. <i>Macromolecules</i> , 2019, 52, 6339-6341.	4.8	8
51	Rationally-designed multi responsive fluorescent switching polymer films. <i>Dyes and Pigments</i> , 2019, 167, 77-82.	3.7	8
52	Assessing structure/property relationships and synthetic protocols in the fabrication of poly(oxanorbornene imide) single-chain nanoparticles. <i>European Polymer Journal</i> , 2019, 112, 206-213.	5.4	8
53	Synthesis and Properties of a Novel Electroactive Poly(aryl ether ketone) Bearing Pendant Aniline Tetramer. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 1475-1481.	2.2	7
54	Electrochromic/electrofluorochromic poly(urea-urethane) bearing oligoaniline and tetraphenylethylene groups: Synthesis, characterization, and H ₂ O ₂ visualized determination. <i>Dyes and Pigments</i> , 2021, 194, 109594.	3.7	7

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55	Flexible and Robust Electro-Optically Responsive Films Based on Novel Silica/Oligoaniline/Carbon Dots Composite. <i>ChemElectroChem</i> , 2019, 6, 5293-5300.	3.4	6
56	Synthesis and tunable properties of oligoaniline-functionalized polyamides. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3343-3349.	2.3	5
57	Probing secondary coordination sphere interactions within porphyrin-cored polymer nanoparticles. <i>Polymer Chemistry</i> , 2022, 13, 677-683.	3.9	4
58	Novel poly(aryl ether) bearing oligoaniline and carbazole pendants: synthesis and properties. <i>Journal of Materials Science</i> , 2013, 48, 5946-5952.	3.7	3
59	Fabrication and electrochemically-modulated optical properties of viologen and carbon dots hybrid glass composite films. <i>Dyes and Pigments</i> , 2020, 174, 108048.	3.7	3
60	Advanced electrochromic/electrofluorochromic poly(amic acid) toward the colorimetric/fluorometric dual-determination of glycosuria. <i>Materials Today Chemistry</i> , 2021, 21, 100497.	3.5	3
61	History of Polymer Education in the United States through the Efforts of the Committee on Polymer Education and the Intersociety Polymer Education Council. <i>Journal of Chemical Education</i> , 2017, 94, 1607-1609.	2.3	2
62	Water-soluble Hyperbranched Polyamidoamine bearing Viologen Groups towards Electrochromic/Electrofluorochromic Dual-mode Aqueous Phase Device. <i>Macromolecular Materials and Engineering</i> , 0, , 2100977.	3.6	1