

# Erik B Berda

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

2,533  
citations

236925

25  
h-index

197818

49  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1843  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Probing secondary coordination sphere interactions within porphyrin-cored polymer nanoparticles. <i>Polymer Chemistry</i> , 2022, 13, 677-683.  | 3.9 | 4         |
| 2  | Customizable molecular recognition: advancements in design, synthesis, and application of molecularly imprinted polymers. <i>Polymer Chemistry</i> , 2022, 13, 3387-3411.   | 3.9 | 13        |
| 3  | 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         |
| 4  | Electrochromic/electrofluorochromic poly(urea-urethane) bearing oligoaniline and tetraphenylethylene groups: Synthesis, characterization, and H <sub>2</sub> O <sub>2</sub> visualized determination. <i>Dyes and Pigments</i> , 2021, 194, 109594. | 3.7 | 7         |
| 5  | 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         |
| 6  | 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        |
| 7  | 100th Anniversary of Macromolecular Science Viewpoint: Re-examining Single-Chain Nanoparticles. <i>ACS Macro Letters</i> , 2020, 9, 1836-1843.  | 4.8 | 44        |
| 8  | 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        |
| 9  | 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         |
| 10 | Virtual Issue: Next-Generation Smart Materials. <i>Macromolecules</i> , 2019, 52, 6339-6341.  | 4.8 | 8         |
| 11 | Rationally-designed multi responsive fluorescent switching polymer films. <i>Dyes and Pigments</i> , 2019, 167, 77-82.  | 3.7 | 8         |
| 12 | 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         |
| 13 | Scalable Synthesis of Single-Chain Nanoparticles under Mild Conditions. <i>Macromolecules</i> , 2017, 50, 2996-3003.  | 4.8 | 45        |
| 14 | 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        |
| 15 | 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         |
| 16 | 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        |
| 17 | Protein-like structure and activity in synthetic polymers. <i>Journal of Polymer Science Part A</i> , 2017, 55, 191-206.  | 2.3 | 67        |
| 18 | Electrochemical performance of electroactive poly(amic acid)-Cu <sup>2+</sup> composites. <i>Applied Surface Science</i> , 2017, 392, 1-7.  | 6.1 | 8         |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | Porphyrin-Cored Polymer Nanoparticles: Macromolecular Models for Heme Iron Coordination. <i>Inorganic Chemistry</i> , 2016, 55, 9493-9496.   | 4.0 | 25        |
| 21 | Synthesis and tunable properties of oligoaniline-functionalized polyamides. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3343-3349.  | 2.3 | 5         |
| 22 | Zippering Polymers into Nanoparticles via Intrachain Alternating Radical Copolymerization. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 501-508.   | 2.2 | 22        |
| 23 | The elastic properties and piezochromism of polyimide films under high pressure. <i>Polymer</i> , 2016, 90, 1-8.   | 3.8 | 16        |
| 24 | What Is Next in Single-Chain Nanoparticles?. <i>Macromolecules</i> , 2016, 49, 2-14.   | 4.8 | 216       |
| 25 | 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        |
| 26 | Electroactive polyurea bearing oligoaniline pendants: Electrochromic and anticorrosive properties. <i>Polymer</i> , 2015, 58, 60-66.   | 3.8 | 27        |
| 27 | Densely Functionalized Pendant Oligoaniline Bearing Poly(oxanorbornenes): Synthesis and Electronic Properties. <i>Macromolecules</i> , 2015, 48, 5054-5057.  | 4.8 | 10        |
| 28 | 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        |
| 29 | 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        |
| 30 | A brief user's guide to single-chain nanoparticles. <i>Polymer Chemistry</i> , 2015, 6, 181-197.   | 3.9 | 251       |
| 31 | 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       |
| 32 | 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         |
| 33 | 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        |
| 34 | Tuning the Fluorescent Response of a Novel Electroactive Polymer with Multiple Stimuli. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1648-1653.  | 3.9 | 15        |
| 35 | 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        |
| 36 | Multifunctional hyperbranched polyamide: Synthesis and properties. <i>Polymer</i> , 2013, 54, 3223-3229.   | 3.8 | 23        |

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|----|--|------|-----------|
| 37 | Synthesis, electrochemical properties and inhibition performance of water-soluble self-doped oligoaniline derivative. <i>Electrochimica Acta</i> , 2013, 93, 107-113.  | 5.2  | 12        |
| 38 | 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        |
| 39 | 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        |
| 40 | 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        |
| 41 | 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        |
| 42 | Cross Nucleation in Polyethylene with Precisely Spaced Ethyl Branches. <i>ACS Macro Letters</i> , 2012, 1, 772-775.  | 4.8  | 24        |
| 43 | Single-chain polymer nanoparticles via reversible disulfide bridges. <i>Polymer Chemistry</i> , 2012, 3, 3068.   | 3.9  | 150       |
| 44 | 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         |
| 45 | 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         |
| 46 | 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        |
| 47 | 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        |
| 48 | Unusual Crystallization Behavior of Polyethylene Having Precisely Spaced Branches. <i>Macromolecules</i> , 2011, 44, 4030-4034.  | 4.8  | 25        |
| 49 | Tuning the size of supramolecular single-chain polymer nanoparticles. <i>Journal of Polymer Science Part A</i> , 2011, 49, 118-126.  | 2.3  | 71        |
| 50 | 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        |
| 51 | Toward Controlling Folding in Synthetic Polymers: Fabricating and Characterizing Supramolecular Single-Chain Nanoparticles. <i>Macromolecules</i> , 2010, 43, 1430-1437.   | 4.8  | 147       |
| 52 | Interchain interactions in poly(benzo[1,2-b:4,3-b' <sup>2</sup> ]dithiophene)s and the effect of substituents on aggregation. <i>Journal of Materials Chemistry</i> , 2009, 19, 4197.                                  | 6.7  | 9         |
| 53 | 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       |
| 54 | 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        |

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|----|--|-----|-----------|
| 55 | Precision polyolefin structure: Modeling polyethylene containing alkyl branches. <i>Polymer</i> , 2008, 49, 2985-2995.   | 3.8 | 83        |
| 56 | Inducing Pendant Group Interactions in Precision Polyolefins: Synthesis and Thermal Behavior. <i>Macromolecules</i> , 2008, 41, 5116-5122.   | 4.8 | 30        |
| 57 | 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        |
| 58 | Precisely Defined Amphiphilic Graft Copolymers. <i>Macromolecules</i> , 2007, 40, 8547-8552.   | 4.8 | 38        |
| 59 | Precision branching in ethylene copolymers: Synthesis and thermal behavior. <i>Journal of Polymer Science Part A</i> , 2006, 44, 4981-4989.  | 2.3 | 40        |
| 60 | 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        |
| 61 | 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        |
| 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         |