

Frank Wiesbrock

List of Publications by Year in descending order

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71
papers

2,819
citations

236833

25
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175177

52
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75
all docs

75
docs citations

75
times ranked

2661
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Microwave-Assisted Polymer Synthesis: State-of-the-Art and Future Perspectives. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1739-1764. | 2.0 | 451 |
| 2 | Investigation of the Living Cationic Ring-Opening Polymerization of 2-Methyl-, 2-Ethyl-, 2-Nonyl-, and 2-Phenyl-2-oxazoline in a Single-Mode Microwave Reactor. <i>Macromolecules</i> , 2005, 38, 5025-5034. | 2.2 | 264 |
| 3 | Single-Mode Microwave Ovens as New Reaction Devices: Accelerating the Living Polymerization of 2-Ethyl-2-Oxazoline. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1895-1899. | 2.0 | 178 |
| 4 | Microwave-Assisted Synthesis of a 42-Membered Library of Diblock Copoly(2-oxazoline)s and Chain-Extended Homo Poly(2-oxazoline)s and Their Thermal Characterization. <i>Macromolecules</i> , 2005, 38, 7957-7966. | 2.2 | 135 |
| 5 | Microwave-Assisted Cationic Ring-Opening Polymerization of 2-Oxazolines: A Powerful Method for the Synthesis of Amphiphilic Triblock Copolymers. <i>Macromolecules</i> , 2006, 39, 4719-4725. | 2.2 | 131 |
| 6 | Design Strategies for Functionalized Poly(2-oxazoline)s and Derived Materials. <i>Polymers</i> , 2013, 5, 956-1011. | 2.0 | 130 |
| 7 | Influence of different branched alkyl side chains on the properties of imidazolium-based ionic liquids. <i>Journal of Materials Chemistry</i> , 2008, 18, 5267. | 6.7 | 118 |
| 8 | Fifty Years of Hydrosilylation in Polymer Science: A Review of Current Trends of Low-Cost Transition-Metal and Metal-Free Catalysts, Non-Thermally Triggered Hydrosilylation Reactions, and Industrial Applications. <i>Polymers</i> , 2017, 9, 534. | 2.0 | 100 |
| 9 | One Decade of Microwave-Assisted Polymerizations: Quo vadis?. <i>Macromolecular Rapid Communications</i> , 2011, 32, 254-288. | 2.0 | 90 |
| 10 | Complexity of Coordinative Bonding in Thallium(I) Anthranilates and Salicylates. <i>Journal of the American Chemical Society</i> , 2003, 125, 3622-3630. | 6.6 | 86 |
| 11 | Polyethylene Nanocomposites for Power Cable Insulations. <i>Polymers</i> , 2019, 11, 24. | 2.0 | 78 |
| 12 | Accelerating the Living Polymerization of 2-Nonyl-2-oxazoline by Implementing a Microwave Synthesizer into a High-Throughput Experimentation Workflow. <i>ACS Combinatorial Science</i> , 2005, 7, 10-13. | 3.3 | 73 |
| 13 | Poly(hydroxy alcanoate)s in Medical Applications. <i>Chemical and Biochemical Engineering Quarterly</i> , 2015, 29, 287-297. | 0.5 | 71 |
| 14 | Synthesis and Aqueous Micellization of Amphiphilic Tetrablock Ter- and Quarterpoly(2-oxazoline)s. <i>Macromolecules</i> , 2007, 40, 2837-2843. | 2.2 | 69 |
| 15 | Strategies for the Synthesis of Poly(2-Oxazoline)-Based Hydrogels. <i>Macromolecular Rapid Communications</i> , 2012, 33, 1632-1647. | 2.0 | 63 |
| 16 | Crystal Structures of Rubidium and Cesium Anthranilates and Salicylates. <i>Inorganic Chemistry</i> , 2003, 42, 7283-7289. | 1.9 | 52 |
| 17 | Characterization of a Poly(2-oxazoline) Library by High-Throughput, Automated Contact-Angle Measurements and Surface-Energy Calculations. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1958-1962. | 2.0 | 40 |
| 18 | Microwave Accelerated Polymerization of 2-Phenyl-2-oxazoline: Microwave or Temperature Effects?. <i>Macromolecular Rapid Communications</i> , 2005, 26, 1773-1778. | 2.0 | 36 |

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|----|---|-----|-----------|
| 19 | Synthesis of Poly(2-oxazoline)-Based Hydrogels with Tailor-Made Swelling Degrees Capable of Stimuli-Triggered Compound Release. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1815-1819. | 2.0 | 36 |
| 20 | RGD-Functionalization of Poly(2-oxazoline)-Based Networks for Enhanced Adhesion to Cancer Cells. <i>Polymers</i> , 2014, 6, 264-279. | 2.0 | 33 |
| 21 | A Review on Modeling Cure Kinetics and Mechanisms of Photopolymerization. <i>Polymers</i> , 2022, 14, 2074. | 2.0 | 33 |
| 22 | Water-Developable Poly(2-oxazoline)-Based Negative Photoresists. <i>Macromolecular Rapid Communications</i> , 2012, 33, 396-400. | 2.0 | 30 |
| 23 | Poly(2-oxazoline)-derived Contact Biocides: Contributions to the Understanding of Antimicrobial Activity. <i>Macromolecular Bioscience</i> , 2013, 13, 116-125. | 2.1 | 30 |
| 24 | UV-mediated thiol-ene click reactions for the synthesis of drug-loadable and degradable gels based on copoly(2-oxazoline)s. <i>European Polymer Journal</i> , 2017, 88, 701-712. | 2.6 | 28 |
| 25 | Elastic moduli for a diblock copoly(2-oxazoline) library obtained by high-throughput screening. <i>Journal of Materials Chemistry</i> , 2007, 17, 2713. | 6.7 | 27 |
| 26 | The structural chemistry of lithium, sodium and potassium anthranilate hydrates. <i>Dalton Transactions RSC</i> , 2002, , 4703. | 2.3 | 25 |
| 27 | Morphologies of Spin-Coated Films of a Library of Diblock Copoly(2-oxazoline)s and Their Correlation to the Corresponding Surface Energies. <i>Macromolecular Rapid Communications</i> , 2006, 27, 405-411. | 2.0 | 25 |
| 28 | Contact bactericides and fungicides on the basis of amino-functionalized poly(norbornene)s. <i>Journal of Polymer Science Part A</i> , 2010, 48, 4504-4514. | 2.5 | 24 |
| 29 | Microwave-Assisted Cationic Ring-Opening Polymerization of 2-Oxazolines. <i>Advances in Polymer Science</i> , 2015, 274, 183-208. | 0.4 | 23 |
| 30 | Expanding Monomers as Anti-Shrinkage Additives. <i>Polymers</i> , 2021, 13, 806. | 2.0 | 20 |
| 31 | UV-induced crosslinking of the biopolyester poly(3-hydroxybutyrate)-co-(3-hydroxyvalerate). <i>Green Chemistry</i> , 2010, 12, 1796. | 4.6 | 19 |
| 32 | Microwave-Assisted Syntheses in Recyclable Ionic Liquids: Photoresists Based on Renewable Resources. <i>ChemSusChem</i> , 2015, 8, 3401-3404. | 3.6 | 18 |
| 33 | Effect of Interfacial Polarization and Water Absorption on the Dielectric Properties of Epoxy-Nanocomposites. <i>Polymers</i> , 2017, 9, 195. | 2.0 | 18 |
| 34 | Zinc and lithium hydrogen- $\hat{1}^2$ -glutamate: large-pore network layer structures. <i>Dalton Transactions RSC</i> , 2002, , 3201-3205. | 2.3 | 16 |
| 35 | Magnesium Anthranilate Dihydrate. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2002, 57, 251-254. | 0.3 | 16 |
| 36 | Evaporation induced micellization of poly(2-oxazoline) multiblock copolymers on surfaces. <i>Soft Matter</i> , 2007, 3, 79-82. | 1.2 | 16 |

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|----|---|-----|-----------|
| 37 | Correlation of surface roughness and surface energy of silicon-based materials with their priming reactivity. <i>Monatshefte für Chemie</i> , 2012, 143, 717-722. | 0.9 | 15 |
| 38 | Heat Dissipation in Epoxy/Amine-Based Gradient Composites with Alumina Particles: A Critical Evaluation of Thermal Conductivity Measurements. <i>Polymers</i> , 2018, 10, 1131. | 2.0 | 15 |
| 39 | Gold(I) thiosulfonate complexes. <i>Inorganica Chimica Acta</i> , 2003, 347, 123-128. | 1.2 | 14 |
| 40 | Crosslinked Poly(2-oxazoline)s as "Green" Materials for Electronic Applications. <i>Polymers</i> , 2016, 8, 6. | 2.0 | 14 |
| 41 | Correlating the mechanical and surface properties with the composition of triblock copoly(2-oxazoline)s. <i>Journal of Materials Chemistry</i> , 2009, 19, 222-229. | 6.7 | 13 |
| 42 | 3D Printing of High- T_g Thiol-Ene Resins with Spiro-Orthoesters as Anti-Shrinkage Additive. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900515. | 1.7 | 13 |
| 43 | Lithium salicylate monohydrate: A layer structure with carboxylate-bridged μ^2 - and μ -[(H ₂ O)Li ⁺] helices. <i>CrystEngComm</i> , 2003, 5, 503-505. | 1.3 | 12 |
| 44 | Kinetic Investigations on Microwave-Assisted Statistical Terpolymerizations of 2-Oxazoline Monomers. <i>Australian Journal of Chemistry</i> , 2007, 60, 656. | 0.5 | 12 |
| 45 | Delocalized π -electrons in 2-oxazoline rings resulting in negatively charged nitrogen atoms: revealing the selectivity during the initiation of cationic ring-opening polymerizations. <i>Polymer International</i> , 2011, 60, 1173-1179. | 1.6 | 12 |
| 46 | Living cationic ring-opening polymerization of 2-ethyl-2-oxazoline following sustainable concepts: microwave-assisted and droplet-based microfluidic processes in an ionic liquid medium. <i>Polymer Chemistry</i> , 2017, 8, 5910-5917. | 1.9 | 11 |
| 47 | Interactions of a β^2 -dipeptide with monovalent metal cations: crystal structures of (anthranoyl)anthranilic acid and its lithium, sodium and thallium salts†. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 473-484. | 1.5 | 10 |
| 48 | Temperature-Triggered/Switchable Thermal Conductivity of Epoxy Resins. <i>Polymers</i> , 2021, 13, 65. | 2.0 | 8 |
| 49 | Lithium-hydrogen- β -glutamate: A layer structure with asymmetrical tunnels formed by nets with two different macrocycles. <i>CrystEngComm</i> , 2003, 5, 262-264. | 1.3 | 7 |
| 50 | Synthesis of a poly(2-azanorbornene) with a high degree of cis-TT-stereoregularity and a regular secondary solution structure. <i>Polymer Chemistry</i> , 2012, 3, 2760. | 1.9 | 7 |
| 51 | The π -Electron Delocalization in 2-Oxazolines Revisited: Quantification and Comparison with Its Analogue in Esters. <i>Materials</i> , 2015, 8, 5385-5397. | 1.3 | 7 |
| 52 | Modification Pathways for Copoly(2-oxazoline)s Enabling Their Application as Antireflective Coatings in Photolithography. <i>Macromolecular Rapid Communications</i> , 2016, 37, 233-238. | 2.0 | 7 |
| 53 | Preparation and Structure of Magnesium Bis(hydrogen β^2 -glutamate) Hexahydrate. <i>Helvetica Chimica Acta</i> , 2002, 85, 1151. | 1.0 | 6 |
| 54 | Microwave-assisted nitroxide-mediated polymerization of alkyl acrylates. <i>E-Polymers</i> , 2005, 5, . | 1.3 | 6 |

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|----|--|-----|-----------|
| 55 | Dual-Cure Coatings: Spiroorthoesters as Volume-Controlling Additives in Thiol-Ene Reactions. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800627. | 1.7 | 6 |
| 56 | Microwave-Assisted Synthesis of Polyesters and Polyamides by Ring-Opening Polymerization. <i>Advances in Polymer Science</i> , 2014, , 149-182. | 0.4 | 5 |
| 57 | Effect of water absorption on dielectric spectrum of nanocomposites. , 2016, , . | | 4 |
| 58 | Enhancement of the Insulation Properties of Poly(2-oxazoline)-Polyester Networks by the Addition of Nanofillers. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1700681. | 2.0 | 4 |
| 59 | New Challenges in Combinatorial Polymer Research: 3rd DPI Workshop on Automated Synthesis and High-Throughput Experimentation in Polymer and Materials Research at the Eindhoven University of Technology. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1579-1582. | 2.0 | 2 |
| 60 | UV-Induced Crosslinking of Poly[2-(2-Norbornenyl)-2-Oxazoline]s. <i>Periodica Polytechnica: Chemical Engineering</i> , 2014, 58, 69. | 0.5 | 2 |
| 61 | Crosslinkable/functionalizable poly(2-oxazoline)-based micelles. <i>European Polymer Journal</i> , 2019, 121, 109305. | 2.6 | 2 |
| 62 | Solution-Phase Synthesis of First-Generation Tetraester Dendritic Branches Involving Microwave and/or Ultrasonic Irradiation. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 4344-4349. | 1.2 | 1 |
| 63 | Dielectric Properties of Shrinkage-Free Poly(2-Oxazoline) Networks from Renewable Resources. <i>Polymers</i> , 2021, 13, 1263. | 2.0 | 1 |
| 64 | Bisphenol-Free Epoxy Resins Derived from Natural Resources Exhibiting High Thermal Conductivity. , 2020, 69, . | | 1 |
| 65 | Think Poly: European Polymer Congress EPF'09. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 2260-2261. | 1.1 | 0 |
| 66 | Oxazoline-Based Hydro-, Amphi- and Lipogels from Microwave-Assisted Synthesis. <i>Scientia Pharmaceutica</i> , 2010, 78, 660-660. | 0.7 | 0 |
| 67 | Anhydrous thallium hydrogen l-glutamate: polymer networks formed by sandwich layers of oxygen-coordinated thallium ions cores shielded by hydrogen l-glutamate counterions. <i>Dalton Transactions</i> , 2011, 40, 10885. | 1.6 | 0 |
| 68 | Macromol. Biosci. 1/2013. <i>Macromolecular Bioscience</i> , 2013, 13, 140-140. | 2.1 | 0 |
| 69 | Interdisciplinary Approaches towards Materials with Enhanced Properties for Electrical Engineering. <i>Polymers</i> , 2016, 8, 307. | 2.0 | 0 |
| 70 | Structural Model for the Estimation of the Equivalent Permittivity of Nanodielectrics Based on Polyethylene and Epoxy Resins. <i>IEEE Access</i> , 2021, 9, 123927-123938. | 2.6 | 0 |
| 71 | Dual/Bi-Stage Curing of Nanocomposites from Renewable Resources upon Volumetric Expansion. , 2020, 69, . | | 0 |