

Joshua C Worch

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,066
citations

516710

16
h-index

713466

21
g-index

25
all docs

25
docs citations

25
times ranked

1043
citing authors

#	ARTICLE	IF	CITATIONS
1	Stereochemical enhancement of polymer properties. <i>Nature Reviews Chemistry</i> , 2019, 3, 514-535.	30.2	188
2	100th Anniversary of Macromolecular Science Viewpoint: Toward Catalytic Chemical Recycling of Waste (and Future) Plastics. <i>ACS Macro Letters</i> , 2020, 9, 1494-1506.	4.8	172
3	Update and Challenges in Carbon Dioxide-Based Polycarbonate Synthesis. <i>ChemSusChem</i> , 2020, 13, 469-487.	6.8	121
4	Click Nucleophilic Conjugate Additions to Activated Alkynes: Exploring Thiol-yne, Amino-yne, and Hydroxyl-yne Reactions from (Bio)Organic to Polymer Chemistry. <i>Chemical Reviews</i> , 2021, 121, 6744-6776.	47.7	99
5	Elastomeric polyamide biomaterials with stereochemically tuneable mechanical properties and shape memory. <i>Nature Communications</i> , 2020, 11, 3250.	12.8	56
6	Terpene- and terpenoid-based polymeric resins for stereolithography 3D printing. <i>Polymer Chemistry</i> , 2019, 10, 5959-5966.	3.9	50
7	Tuning Thiophene with Phosphorus: Synthesis and Electronic Properties of Benzobisthiaphospholes. <i>Chemistry - A European Journal</i> , 2014, 20, 7746-7751.	3.3	48
8	Nickel-Catalyzed Suzuki Polycondensation for Controlled Synthesis of Ester-Functionalized Conjugated Polymers. <i>Macromolecules</i> , 2016, 49, 4757-4762.	4.8	46
9	Photostable Helical Polyfurans. <i>Journal of the American Chemical Society</i> , 2019, 141, 8858-8867.	13.7	38
10	Concomitant control of mechanical properties and degradation in resorbable elastomer-like materials using stereochemistry and stoichiometry for soft tissue engineering. <i>Nature Communications</i> , 2021, 12, 446.	12.8	34
11	Ultra-Tough Elastomers from Stereochemistry-Directed Hydrogen Bonding in Isosorbide-Based Polymers. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	34
12	Selective Organocatalytic Preparation of Trimethylene Carbonate from Oxetane and Carbon Dioxide. <i>ACS Catalysis</i> , 2020, 10, 5399-5404.	11.2	31
13	Synthetic Tuning of Electronic and Photophysical Properties of 2-Aryl-1,3-Benzothiaphospholes. <i>Journal of Organic Chemistry</i> , 2013, 78, 7462-7469.	3.2	29
14	Sugar-Based Polymers with Stereochemistry-Dependent Degradability and Mechanical Properties. <i>Journal of the American Chemical Society</i> , 2022, 144, 1243-1250.	13.7	24
15	Analytical Rheology of Metallocene-Catalyzed Polyethylenes. <i>Macromolecules</i> , 2011, 44, 3656-3665.	4.8	23
16	Renewable and recyclable covalent adaptable networks based on bio-derived lipoic acid. <i>Polymer Chemistry</i> , 2021, 12, 5796-5802.	3.9	23
17	Unsaturated Poly(ester-urethanes) with Stereochemically Dependent Thermomechanical Properties. <i>Macromolecules</i> , 2020, 53, 174-181.	4.8	17
18	Using Stereochemistry to Control Mechanical Properties in Thiol-Yne Click-Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25856-25864.	13.8	13

#	ARTICLE	IF	CITATIONS
19	Intrinsically Re-curable Photopolymers Containing Dynamic Thiol-Michael Bonds. Journal of the American Chemical Society, 2022, 144, 11729-11735.	13.7	12
20	Stability and Reactivity of 1,3-Benzothiaphosphole: Metalation and Diels-Alder Chemistry. Organometallics, 2015, 34, 5366-5373.	2.3	5
21	Harnessing polymers near equilibrium for better recycling. Chem, 2021, 7, 547-549.	11.7	3
22	Using Stereochemistry to Control Mechanical Properties in Thiol-Yne Click-Hydrogels. Angewandte Chemie, 2021, 133, 26060-26068.	2.0	0
23	Ultra-Tough Elastomers from Stereochemistry-Directed Hydrogen Bonding in Isosorbide-Based Polymers. Angewandte Chemie, 2022, 134, .	2.0	0