Joshua C Worch

List of Publications by Year
in descending order

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	Sugar-Based Polymers with Stereochemistry-Dependent Degradability and Mechanical Properties. Journal of the American Chemical Society, 2022, 144, 1243-1250.	13.7	24
2	Ultraâ€Tough Elastomers from Stereochemistryâ€Directed Hydrogen Bonding in Isosorbideâ€Based Polymers. Angewandte Chemie, 2022, 134, .	2.0	0
3	Ultraâ€Tough Elastomers from Stereochemistryâ€Directed Hydrogen Bonding in Isosorbideâ€Based Polymers. Angewandte Chemie - International Edition, 2022, 61, .	13.8	34
4	Intrinsically Re-curable Photopolymers Containing Dynamic Thiol-Michael Bonds. Journal of the American Chemical Society, 2022, 144, 11729-11735.	13.7	12
5	Concomitant control of mechanical properties and degradation in resorbable elastomer-like materials using stereochemistry and stoichiometry for soft tissue engineering. Nature Communications, 2021, 12, 446.	12.8	34
6	Renewable and recyclable covalent adaptable networks based on bio-derived lipoic acid. Polymer Chemistry, 2021, 12, 5796-5802.	3.9	23
7	Harnessing polymers near equilibrium for better recycling. CheM, 2021, 7, 547-549.	11.7	3
8	Click Nucleophilic Conjugate Additions to Activated Alkynes: Exploring Thiol-yne, Amino-yne, and Hydroxyl-yne Reactions from (Bio)Organic to Polymer Chemistry. Chemical Reviews, 2021, 121, 6744-6776.	47.7	99
9	Using Stereochemistry to Control Mechanical Properties in Thiolâ€“Yne Clickâ€Hydrogels. Angewandte Chemie, 2021, 133, 26060-26068.	2.0	0
10	Using Stereochemistry to Control Mechanical Properties in Thiolâ€“Yne Clickâ€Hydrogels. Angewandte Chemie - International Edition, 2021, 60, 25856-25864.	13.8	13
11	Unsaturated Poly(ester-urethanes) with Stereochemically Dependent Thermomechanical Properties. Macromolecules, 2020, 53, 174-181.	4.8	17
12	Update and Challenges in Carbon Dioxideâ€Based Polycarbonate Synthesis. ChemSusChem, 2020, 13, 469-487.	6.8	121
13	100th Anniversary of Macromolecular Science Viewpoint: Toward Catalytic Chemical Recycling of Waste (and Future) Plastics. ACS Macro Letters, 2020, 9, 1494-1506.	4.8	172
14	Elastomeric polyamide biomaterials with stereochemically tuneable mechanical properties and shape memory. Nature Communications, 2020, 11, 3250.	12.8	56
15	Selective Organocatalytic Preparation of Trimethylene Carbonate from Oxetane and Carbon Dioxide. ACS Catalysis, 2020, 10, 5399-5404.	11.2	31
16	Stereochemical enhancement of polymer properties. Nature Reviews Chemistry, 2019, 3, 514-535.	30.2	188
17	Terpene- and terpenoid-based polymeric resins for stereolithography 3D printing. Polymer Chemistry, 2019, 10, 5959-5966.	3.9	50
18	Photostable Helical Polyfurans. Journal of the American Chemical Society, 2019, 141, 8858-8867.	13.7	38

#	Article	IF	Citations
19	Nickel-Catalyzed Suzuki Polycondensation for Controlled Synthesis of Ester-Functionalized Conjugated Polymers. Macromolecules, 2016, 49, 4757-4762.	4.8	46
20	Stability and Reactivity of 1,3-Benzothiaphosphole: Metalation and Dielsâ€“Alder Chemistry. Organometallics, 2015, 34, 5366-5373.	2.3	5
21	Tuning Thiophene with Phosphorus: Synthesis and Electronic Properties of Benzobisthiaphospholes. Chemistry - A European Journal, 2014, 20, 7746-7751.	3.3	48
22	Synthetic Tuning of Electronic and Photophysical Properties of 2-Aryl-1,3-Benzothiaphospholes. Journal of Organic Chemistry, 2013, 78, 7462-7469.	3.2	29
23	Analytical Rheology of Metallocene-Catalyzed Polyethylenes. Macromolecules, 2011, 44, 3656-3665.	4.8	23