Maria C Arno

List of Publications by Year
in descending order

33 papers	2,246 citations	304743 22 h-index	395702 33 g-index
33 all docs	33 docs citations	33 times ranked	2604 citing authors

#	Article	IF	Citations
1	Hydrogel scaffolds for differentiation of adipose-derived stem cells. Chemical Society Reviews, 2017, 46, 6255-6275.	38.1	268
2	Permeable Protein-Loaded Polymersome Cascade Nanoreactors by Polymerization-Induced Self-Assembly. ACS Macro Letters, 2017, 6, 1263-1267.	4.8	193
3	Confinement of Therapeutic Enzymes in Selectively Permeable Polymer Vesicles by Polymerization-Induced Self-Assembly (PISA) Reduces Antibody Binding and Proteolytic Susceptibility. ACS Central Science, 2018, 4, 718-723.	11.3	181
4	Exploiting the role of nanoparticle shape in enhancing hydrogel adhesive and mechanical properties. Nature Communications, 2020, 11, 1420.	12.8	167
5	Precision Epitaxy for Aqueous 1D and 2D Poly(Îµ-caprolactone) Assemblies. Journal of the American Chemical Society, 2017, 139, 16980-16985.	13.7	159
6	Synthesis and applications of anisotropic nanoparticles with precisely defined dimensions. Nature Reviews Chemistry, 2021, 5, 21-45.	30.2	154
7	Aliphatic Polycarbonates from Cyclic Carbonate Monomers and Their Application as Biomaterials. Chemical Reviews, 2021, 121, 10865-10907.	47.7	150
8	Selective Chemical Upcycling of Mixed Plastics Guided by a Thermally Stable Organocatalyst. Angewandte Chemie - International Edition, 2021, 60, 6710-6717.	13.8	118
9	Controlling the Size of Two-Dimensional Polymer Platelets for Water-in-Water Emulsifiers. ACS Central Science, 2018, 4, 63-70.	11.3	94
10	Synthesis of Functionalized Cyclic Carbonates through Commodity Polymer Upcycling. ACS Macro Letters, 2020, 9, 443-447.	4.8	69
11	Nonswelling Thiolâ€“Yne Cross-Linked Hydrogel Materials as Cytocompatible Soft Tissue Scaffolds. Biomacromolecules, 2018, 19, 1378-1388.	5.4	67
12	3D Printing for the Clinic: Examining Contemporary Polymeric Biomaterials and Their Clinical Utility. Biomacromolecules, 2020, 21, 1037-1059.	5.4	61
13	4D polycarbonates via stereolithography as scaffolds for soft tissue repair. Nature Communications, 2021, 12, 3771.	12.8	59
14	Elastomeric polyamide biomaterials with stereochemically tuneable mechanical properties and shape memory. Nature Communications, 2020, 11, 3250.	12.8	56
15	Poly(oligo(ethylene glycol) vinyl acetate)s: A Versatile Class of Thermoresponsive and Biocompatible Polymers. Angewandte Chemie - International Edition, 2017, 56, 9178-9182.	13.8	51
16	Poly(Pentafluorophenyl Methacrylate)â€Based Nanoâ€Objects Developed by Photoâ€PISA as Scaffolds for Postâ€Polymerization Functionalization. Macromolecular Rapid Communications, 2019, 40, e1800460.	3.9	50
17	Manipulating the fluorescence lifetime at the sub-cellular scale via photo-switchable barcoding. Nature Communications, 2020, 11, 2460.	12.8	49
18	Robust alginate/hyaluronic acid thiolâ€“yne click-hydrogel scaffolds with superior mechanical performance and stability for load-bearing soft tissue engineering. Biomaterials Science, 2020, 8, 405-412.	5.4	48

#	Article	IF	Citations
19	Anisotropic polymer nanoparticles with controlled dimensions from the morphological transformation of isotropic seeds. Nature Communications, 2019, 10, 5406.	12.8	35
20	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
21	Ultraâ€Tough Elastomers from Stereochemistryâ€Directed Hydrogen Bonding in Isosorbideâ€Based Polymers. Angewandte Chemie - International Edition, 2022, 61, .	13.8	34
22	Copper(II) binding properties of hepcidin. Journal of Biological Inorganic Chemistry, 2016, 21, 329-338.	2.6	32
23	Selective Chemical Upcycling of Mixed Plastics Guided by a Thermally Stable Organocatalyst. Angewandte Chemie, 2021, 133, 6784-6791.	2.0	20
24	Engineering the Mammalian Cell Surface with Synthetic Polymers: Strategies and Applications. Macromolecular Rapid Communications, 2020, 41, e2000302.	3.9	17
25	Exploiting topology-directed nanoparticle disassembly for triggered drug delivery. Biomaterials, 2018, 180, 184-192.	11.4	15
26	pH-Responsive, Functionalizable Spyrocyclic Polycarbonate: A Versatile Platform for Biocompatible Nanoparticles. Biomacromolecules, 2018, 19, 3427-3434.	5.4	13
27	Poly(oligo(ethylene glycol) vinyl acetate)s: A Versatile Class of Thermoresponsive and Biocompatible Polymers. Angewandte Chemie, 2017, 129, 9306-9310.	2.0	12
28	Crystallization-Induced Gelling as a Method to 4D Print Low-Water-Content Non-isocyanate Polyurethane Hydrogels. Chemistry of Materials, 2021, 33, 7194-7202.	6.7	11
29	Catalytically Active Nâ€Heterocyclic Carbene Release from Singleâ€Chain Nanoparticles Following a Thermolysisâ€Driven Unfolding Strategy. Macromolecular Rapid Communications, 2019, 40, e1900071.	3.9	10
30	Organocatalytic Synthesis of Alkyneâ€Functional Aliphatic Polycarbonates via Ringâ€Opening Polymerization of an Eightâ€Memberedâ€Nâ€Cyclic Carbonate. Macromolecular Rapid Communications, 2021, 42, e2000378.	3.9	8
31	Functional Characterization of Fluorescent Hepcidin. Bioconjugate Chemistry, 2013, 24, 1527-1532.	3.6	6
32	Thermally-induced hyperbranching of bromine-containing polyesters by insertion of in situ generated chain-end carbenes. Chemical Communications, 2021, 57, 4275-4278.	4.1	4
33	Cyanine-5-Driven Behaviours of Hyperbranched Polymers Designed for Therapeutic Delivery Are Cell-Type Specific and Correlated with Polar Lipid Distribution in Membranes. Nanomaterials, 2021, 11, 1745.	4.1	1