Kazuki Fukushima

List of Publications by Citations

43 papers	3,604 citations	32 h-index	46 g-index
46 ext. papers	3,984 ext. citations	7.1 avg, IF	5.52 L-index

#	Paper	IF	Citations
43	Biodegradable nanostructures with selective lysis of microbial membranes. *Nature Chemistry*, **2011**, 3, 409-14	17.6	436
42	Stereocomplexed polylactides (Neo-PLA) as high-performance bio-based polymers: their formation, properties, and application. *Polymer International*, **2006**, 55, 626-642	3.3	367
41	Poly(trimethylene carbonate)-based polymers engineered for biodegradable functional biomaterials. *Biomaterials Science*, **2016**, 4, 9-24	7.4	194
40	A simple and efficient synthesis of functionalized cyclic carbonate monomers using a versatile pentafluorophenyl ester intermediate. *Journal of the American Chemical Society*, **2010**, 132, 14724-6	16.4	165
39	Controlled crystal nucleation in the melt-crystallization of poly(l-lactide) and poly(l-lactide)/poly(d-lactide) stereocomplex. *Polymer*, **2003**, 44, 5635-5641	3.9	160
38	Hydrogen bonding-enhanced micelle assemblies for drug delivery. *Biomaterials*, **2010**, 31, 8063-71	15.6	156
37	Broad-spectrum antimicrobial and biofilm-disrupting hydrogels: stereocomplex-driven supramolecular assemblies. *Angewandte Chemie - International Edition*, **2013**, 52, 674-8	16.4	113
36	Mixed Micelle Formation through Stereocomplexation between Enantiomeric Poly(lactide) Block Copolymers. *Macromolecules*, **2009**, 42, 25-29	5.5	109
35	Organocatalytic depolymerization of poly(ethylene terephthalate). *Journal of Polymer Science Part A*, **2011**, 49, 1273-1281	2.5	105
34	Simple approach to stabilized micelles employing miktoarm terpolymers and stereocomplexes with application in paclitaxel delivery. *Biomacromolecules*, **2009**, 10, 1460-8	6.9	104
33	Stereoblock poly(lactic acid): synthesis via solid-state polycondensation of a stereocomplexed mixture of poly(L-lactic acid) and poly(D-lactic acid). *Macromolecular Bioscience*, **2005**, 5, 21-9	5.5	101
32	An efficient solid-state polycondensation method for synthesizing stereocomplexed poly(lactic acid)s with high molecular weight. *Journal of Polymer Science Part A*, **2008**, 46, 3714-3722	2.5	99
31	Enhanced stereocomplex formation of poly(L-lactic acid) and poly(D-lactic acid) in the presence of stereoblock poly(lactic acid). *Macromolecular Bioscience*, **2007**, 7, 829-35	5.5	98
30	Thermoresponsive nanostructured polycarbonate block copolymers as biodegradable therapeutic delivery carriers. *Biomaterials*, **2011**, 32, 5505-14	15.6	97
29	Organocatalytic approach to amphiphilic comb-block copolymers capable of stereocomplexation and self-assembly. *Biomacromolecules*, **2008**, 9, 3051-6	6.9	93
28	Production of D-lactic acid by bacterial fermentation of rice starch. *Macromolecular Bioscience*, **2004**, 4, 1021-7	5.5	89
27	Advanced chemical recycling of poly(ethylene terephthalate) through organocatalytic aminolysis. *Polymer Chemistry*, **2013**, 4, 1610-1616	4.9	87

26	Catalytic insights into acid/base conjugates: highly selective bifunctional catalysts for the ring-opening polymerization of lactide. *Chemical Communications*, **2011**, 47, 3105-7	5.8	87
25	Design of biocompatible and biodegradable polymers based on intermediate water concept. *Polymer Journal*, **2015**, 47, 114-121	2.7	84
24	Synthesis and Characterization of Stereoblock Poly(lactic acid)s with Nonequivalent D/L Sequence Ratios. *Macromolecules*, **2007**, 40, 3049-3055	5.5	78
23	Broad-spectrum antimicrobial supramolecular assemblies with distinctive size and shape. *ACS Nano*, **2012**, 6, 9191-9	16.7	76
22	Rational design of biodegradable cationic polycarbonates for gene delivery. *Journal of Controlled Release*, **2011**, 152, 120-6	11.7	63
21	Supramolecular high-aspect ratio assemblies with strong antifungal activity. *Nature Communications*, **2013**, 4, 2861	17.4	60
20	Catalyst Chelation Effects in Organocatalyzed Ring-Opening Polymerization of Lactide.. *ACS Macro Letters*, **2012**, 1, 19-22	6.6	59
19	Mechanisms of organocatalytic amidation and trans-esterification of aromatic esters as a model for the depolymerization of poly(ethylene) terephthalate. *Journal of Physical Chemistry A*, **2012**, 116, 12389-98	2.8	55
18	A Novel Synthetic Approach to Stereo-Block Poly(lactic acid). *Macromolecular Symposia*, **2005**, 224, 133-140	0.8	52
17	Delivery of anticancer drugs using polymeric micelles stabilized by hydrogen-bonding urea groups. *Macromolecular Rapid Communications*, **2010**, 31, 1187-92	4.8	48
16	Design of Polymeric Biomaterials: The Intermediate Water Concept *Bulletin of the Chemical Society of Japan*, **2019**, 92, 2043-2057	5.1	46
15	Polycarbonate-Based Brush Polymers with Detachable Disulfide-Linked Side Chains.. *ACS Macro Letters*, **2013**, 2, 332-336	6.6	45
14	A supramolecularly assisted transformation of block-copolymer micelles into nanotubes. *Angewandte Chemie - International Edition*, **2009**, 48, 4508-12	16.4	43
13	Spiropyran Dimer Toward Photo-Switchable Molecular Machine. *Chemistry of Materials*, **2007**, 19, 644-646	9.6	42
12	Unexpected efficiency of cyclic amidine catalysts in depolymerizing poly(ethylene terephthalate). *Journal of Polymer Science Part A*, **2013**, 51, 1606-1611	2.5	38
11	From plastic waste to polymer electrolytes for batteries through chemical upcycling of polycarbonate. *Journal of Materials Chemistry A*, **2020**, 8, 13921-13926	13	23
10	Monoether-Tagged Biodegradable Polycarbonate Preventing Platelet Adhesion and Demonstrating Vascular Cell Adhesion: A Promising Material for Resorbable Vascular Grafts and Stents. *Biomacromolecules*, **2017**, 18, 3834-3843	6.9	18
9	Supramolecular nanofibers self-assembled from cationic small molecules derived from repurposed poly(ethylene teraphthalate) for antibiotic delivery. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2018**, 14, 165-172	6	18

8	Biodegradable functional biomaterials exploiting substituted trimethylene carbonates and organocatalytic transesterification. *Polymer Journal*, **2016**, 48, 1103-1114	2.7	16
7	Evaluation of the hemocompatibility of hydrated biodegradable aliphatic carbonyl polymers with a subtle difference in the backbone structure based on the intermediate water concept and surface hydration. *Polymer Journal*, **2015**, 47, 469-473	2.7	15
6	Synthesis of antithrombotic poly(carbonate-urethane)s through a sequential process of ring-opening polymerization and polyaddition facilitated by organocatalysts. *European Polymer Journal*, **2017**, 95, 728-736	5.2	13
5	Biocompatibility and hemocompatibility evaluation of polyether urethanes synthesized using DBU organocatalyst. *European Polymer Journal*, **2016**, 84, 750-758	5.2	12
4	Modulating bioactivities of primary ammonium-tagged antimicrobial aliphatic polycarbonates by varying length, sequence and hydrophobic side chain structure. *Biomaterials Science*, **2019**, 7, 2288-2296	7.4	11
3	Formation of bis-benzimidazole and bis-benzoxazole through organocatalytic depolymerization of poly(ethylene terephthalate) and its mechanism. *Polymer Chemistry*, **2020**, 11, 4904-4913	4.9	6
2	Methoxy-Functionalized Glycerol-Based Aliphatic Polycarbonate: Organocatalytic Synthesis, Blood Compatibility, and Hydrolytic Property. *ACS Biomaterials Science and Engineering*, **2021**, 7, 472-481	5.5	6
1	Anisotropic, Degradable Polymer Assemblies Driven by a Rigid Hydrogen-Bonding Motif That Induce Shape-Specific Cell Responses. *Macromolecules*, **2022**, 55, 15-25	5.5	