

# Kazuki Fukushima

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Anisotropic, Degradable Polymer Assemblies Driven by a Rigid Hydrogen-Bonding Motif That Induce Shape-Specific Cell Responses. <i>Macromolecules</i> , <b>2022</b> , 55, 15-25	5.5	
42	Methoxy-Functionalized Glycerol-Based Aliphatic Polycarbonate: Organocatalytic Synthesis, Blood Compatibility, and Hydrolytic Property. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 472-481	5.5	6
41	Formation of bis-benzimidazole and bis-benzoxazole through organocatalytic depolymerization of poly(ethylene terephthalate) and its mechanism. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 4904-4913	4.9	6
40	From plastic waste to polymer electrolytes for batteries through chemical upcycling of polycarbonate. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 13921-13926	13	23
39	Modulating bioactivities of primary ammonium-tagged antimicrobial aliphatic polycarbonates by varying length, sequence and hydrophobic side chain structure. <i>Biomaterials Science</i> , <b>2019</b> , 7, 2288-2296	7.4	11
38	Design of Polymeric Biomaterials: The Intermediate Water Concept. <i>Bulletin of the Chemical Society of Japan</i> , <b>2019</b> , 92, 2043-2057	5.1	46
37	Supramolecular nanofibers self-assembled from cationic small molecules derived from repurposed poly(ethylene terephthalate) for antibiotic delivery. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2018</b> , 14, 165-172	6	18
36	Monoether-Tagged Biodegradable Polycarbonate Preventing Platelet Adhesion and Demonstrating Vascular Cell Adhesion: A Promising Material for Resorbable Vascular Grafts and Stents. <i>Biomacromolecules</i> , <b>2017</b> , 18, 3834-3843	6.9	18
35	Synthesis of antithrombotic poly(carbonate-urethane)s through a sequential process of ring-opening polymerization and polyaddition facilitated by organocatalysts. <i>European Polymer Journal</i> , <b>2017</b> , 95, 728-736	5.2	13
34	Poly(trimethylene carbonate)-based polymers engineered for biodegradable functional biomaterials. <i>Biomaterials Science</i> , <b>2016</b> , 4, 9-24	7.4	194
33	Biodegradable functional biomaterials exploiting substituted trimethylene carbonates and organocatalytic transesterification. <i>Polymer Journal</i> , <b>2016</b> , 48, 1103-1114	2.7	16
32	Biocompatibility and hemocompatibility evaluation of polyether urethanes synthesized using DBU organocatalyst. <i>European Polymer Journal</i> , <b>2016</b> , 84, 750-758	5.2	12
31	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. <i>Polymer Journal</i> , <b>2015</b> , 47, 469-473	2.7	15
30	Design of biocompatible and biodegradable polymers based on intermediate water concept. <i>Polymer Journal</i> , <b>2015</b> , 47, 114-121	2.7	84
29	Supramolecular high-aspect ratio assemblies with strong antifungal activity. <i>Nature Communications</i> , <b>2013</b> , 4, 2861	17.4	60
28	Broad-spectrum antimicrobial and biofilm-disrupting hydrogels: stereocomplex-driven supramolecular assemblies. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 674-8	16.4	113
27	Polycarbonate-Based Brush Polymers with Detachable Disulfide-Linked Side Chains.. <i>ACS Macro Letters</i> , <b>2013</b> , 2, 332-336	6.6	45

26	Advanced chemical recycling of poly(ethylene terephthalate) through organocatalytic aminolysis. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 1610-1616	4.9	87
25	Unexpected efficiency of cyclic amidine catalysts in depolymerizing poly(ethylene terephthalate). <i>Journal of Polymer Science Part A</i> , <b>2013</b> , 51, 1606-1611	2.5	38
24	Broad-spectrum antimicrobial supramolecular assemblies with distinctive size and shape. <i>ACS Nano</i> , <b>2012</b> , 6, 9191-9	16.7	76
23	Catalyst Chelation Effects in Organocatalyzed Ring-Opening Polymerization of Lactide.. <i>ACS Macro Letters</i> , <b>2012</b> , 1, 19-22	6.6	59
22	Mechanisms of organocatalytic amidation and trans-esterification of aromatic esters as a model for the depolymerization of poly(ethylene) terephthalate. <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 12389-98	2.8	55
21	Catalytic insights into acid/base conjugates: highly selective bifunctional catalysts for the ring-opening polymerization of lactide. <i>Chemical Communications</i> , <b>2011</b> , 47, 3105-7	5.8	87
20	Biodegradable nanostructures with selective lysis of microbial membranes. <i>Nature Chemistry</i> , <b>2011</b> , 3, 409-14	17.6	436
19	Rational design of biodegradable cationic polycarbonates for gene delivery. <i>Journal of Controlled Release</i> , <b>2011</b> , 152, 120-6	11.7	63
18	Organocatalytic depolymerization of poly(ethylene terephthalate). <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 1273-1281	2.5	105
17	Thermoresponsive nanostructured polycarbonate block copolymers as biodegradable therapeutic delivery carriers. <i>Biomaterials</i> , <b>2011</b> , 32, 5505-14	15.6	97
16	A simple and efficient synthesis of functionalized cyclic carbonate monomers using a versatile pentafluorophenyl ester intermediate. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 14724-6	16.4	165
15	Hydrogen bonding-enhanced micelle assemblies for drug delivery. <i>Biomaterials</i> , <b>2010</b> , 31, 8063-71	15.6	156
14	Delivery of anticancer drugs using polymeric micelles stabilized by hydrogen-bonding urea groups. <i>Macromolecular Rapid Communications</i> , <b>2010</b> , 31, 1187-92	4.8	48
13	A supramolecularly assisted transformation of block-copolymer micelles into nanotubes. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 4508-12	16.4	43
12	Simple approach to stabilized micelles employing miktoarm terpolymers and stereocomplexes with application in paclitaxel delivery. <i>Biomacromolecules</i> , <b>2009</b> , 10, 1460-8	6.9	104
11	Mixed Micelle Formation through Stereocomplexation between Enantiomeric Poly(lactide) Block Copolymers. <i>Macromolecules</i> , <b>2009</b> , 42, 25-29	5.5	109
10	Organocatalytic approach to amphiphilic comb-block copolymers capable of stereocomplexation and self-assembly. <i>Biomacromolecules</i> , <b>2008</b> , 9, 3051-6	6.9	93
9	An efficient solid-state polycondensation method for synthesizing stereocomplexed poly(lactic acid)s with high molecular weight. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 3714-3722	2.5	99

8	Spiropyran Dimer Toward Photo-Switchable Molecular Machine. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 644-646	4.6	42
7	Enhanced stereocomplex formation of poly(L-lactic acid) and poly(D-lactic acid) in the presence of stereoblock poly(lactic acid). <i>Macromolecular Bioscience</i> , <b>2007</b> , 7, 829-35	5.5	98
6	Synthesis and Characterization of Stereoblock Poly(lactic acid)s with Nonequivalent D/L Sequence Ratios. <i>Macromolecules</i> , <b>2007</b> , 40, 3049-3055	5.5	78
5	Stereocomplexed polylactides (Neo-PLA) as high-performance bio-based polymers: their formation, properties, and application. <i>Polymer International</i> , <b>2006</b> , 55, 626-642	3.3	367
4	A Novel Synthetic Approach to Stereo-Block Poly(lactic acid). <i>Macromolecular Symposia</i> , <b>2005</b> , 224, 133-144	4.8	52
3	Stereoblock poly(lactic acid): synthesis via solid-state polycondensation of a stereocomplexed mixture of poly(L-lactic acid) and poly(D-lactic acid). <i>Macromolecular Bioscience</i> , <b>2005</b> , 5, 21-9	5.5	101
2	Production of D-lactic acid by bacterial fermentation of rice starch. <i>Macromolecular Bioscience</i> , <b>2004</b> , 4, 1021-7	5.5	89
1	Controlled crystal nucleation in the melt-crystallization of poly(l-lactide) and poly(l-lactide)/poly(d-lactide) stereocomplex. <i>Polymer</i> , <b>2003</b> , 44, 5635-5641	3.9	160