

# Shingo Kobayashi

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,817  
citations

279701

23  
h-index

265120

42  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2080  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene/polyethylene nanocomposites: Effect of polyethylene functionalization and blending methods. <i>Polymer</i> , 2011, 52, 1837-1846.	1.8	358
2	Nonthrombogenic, stretchable, active multielectrode array for electroanatomical mapping. <i>Science Advances</i> , 2018, 4, eaau2426.	4.7	155
3	Design of biocompatible and biodegradable polymers based on intermediate water concept. <i>Polymer Journal</i> , 2015, 47, 114-121.	1.3	126
4	Regio- and Stereoselective Ring-Opening Metathesis Polymerization of 3-Substituted Cyclooctenes. <i>Journal of the American Chemical Society</i> , 2011, 133, 5794-5797.	6.6	124
5	Controlled Polymerization of a Cyclic Diene Prepared from the Ring-Closing Metathesis of a Naturally Occurring Monoterpene. <i>Journal of the American Chemical Society</i> , 2009, 131, 7960-7961.	6.6	84
6	The Relationship Between Water Structure and Blood Compatibility in Poly(2-methoxyethyl Acrylate) (PMEA) Analogues. <i>Macromolecular Bioscience</i> , 2015, 15, 1296-1303.	2.1	82
7	Poly( <i>l</i> -methoxyalkyl acrylate)s: Nonthrombogenic Polymer Family with Tunable Protein Adsorption. <i>Biomacromolecules</i> , 2017, 18, 4214-4223.	2.6	69
8	Design of Polymeric Biomaterials: The "Intermediate Water Concept". <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 2043-2057.	2.0	65
9	Long-Term Implantable, Flexible, and Transparent Neural Interface Based on Ag/Au Core-Shell Nanowires. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900130.	3.9	52
10	Regioselective Ring-Opening Metathesis Polymerization of 3-Substituted Cyclooctenes with Ether Side Chains. <i>Macromolecules</i> , 2016, 49, 2493-2501.	2.2	40
11	Living Anionic Polymerizations of 4-(1-Adamantyl)styrene and 3-(4-Vinylphenyl)-1,1-bisadamantane. <i>Macromolecules</i> , 2006, 39, 5979-5986.	2.2	39
12	Synthesis and Properties of New Thermoplastic Elastomers Containing Poly[4-(1-adamantyl)styrene] Hard Segments. <i>Macromolecules</i> , 2008, 41, 5502-5508.	2.2	39
13	Conformable microneedle pH sensors via the integration of two different siloxane polymers for mapping peripheral artery disease. <i>Science Advances</i> , 2021, 7, eabi6290.	4.7	36
14	Functionalized regio-regular linear polyethylenes from the ROMP of 3-substituted cyclooctenes. <i>Applied Petrochemical Research</i> , 2015, 5, 19-25.	1.3	35
15	Interfacial Structures and Fibrinogen Adsorption at Blood-Compatible Polymer/Water Interfaces. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 2122-2126.	2.6	34
16	Synthesis of Well-Defined Poly(ethylene- <i>l</i> -1-vinyladamantane) via Living Anionic Polymerization of 2-(1-Adamantyl)-1,3-butadiene, Followed by Hydrogenation. <i>Macromolecules</i> , 2009, 42, 5017-5026.	2.2	31
17	Influence of Functionalized Graphene Sheets on Modulus and Glass Transition of PMMA. <i>Macromolecules</i> , 2014, 47, 7674-7676.	2.2	29
18	Amino-Functionalized Polyethylene for Enhancing the Adhesion between Polyolefins and Polyurethanes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 3274-3279.	1.8	27

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19	Synthesis and Thrombogenicity Evaluation of Poly(3-methoxypropionic acid vinyl ester): A Candidate for Blood-Compatible Polymers. <i>Biomacromolecules</i> , 2017, 18, 1609-1616.	2.6	27
20	Synthesis of well-defined random and block copolymers of 2-(1-adamantyl)-1,3-butadiene with isoprene via anionic polymerization. <i>Reactive and Functional Polymers</i> , 2009, 69, 409-415.	2.0	25
21	Functionalized linear low-density polyethylene by ring-opening metathesis polymerization. <i>Polymer Chemistry</i> , 2013, 4, 1193-1198.	1.9	25
22	Effect of bound water content on cell adhesion strength to water-insoluble polymers. <i>Acta Biomaterialia</i> , 2021, 134, 313-324.	4.1	25
23	Blends of polyolefin/PMMA for improved scratch resistance, adhesion and compatibility. <i>Polymer</i> , 2012, 53, 3636-3641.	1.8	24
24	Synthesis of Sequence-Specific Polymers with Amide Side Chains via Regio-/Stereoselective Ring-Opening Metathesis Polymerization of 3-Substituted <i>cis</i> -Cyclooctene. <i>Macromolecules</i> , 2016, 49, 8154-8161.	2.2	24
25	Side-Chain Spacing Control of Derivatives of Poly(2-methoxyethyl acrylate): Impact on Hydration States and Antithrombogenicity. <i>Macromolecules</i> , 2020, 53, 8570-8580.	2.2	22
26	Thermosensitive Polymer Biocompatibility Based on Interfacial Structure at Biointerface. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1591-1597.	2.6	21
27	Elucidating the Feature of Intermediate Water in Hydrated Poly( <i>n</i> -methoxyalkyl acrylate)s by Molecular Dynamics Simulation and Differential Scanning Calorimetry Measurement. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3915-3924.	2.6	17
28	Model Linear Low Density Polyethylenes from the ROMP of 5-Hexylcyclooct-1-ene. <i>Australian Journal of Chemistry</i> , 2010, 63, 1201.	0.5	16
29	Hydration States and Blood Compatibility of Hydrogen-Bonded Supramolecular Poly(2-methoxyethyl) Tj ETQq1 1 0,784314 rgBT /Overlo	2.3	14
30	Adhesion between polyethylenes and different types of polypropylenes. <i>Polymer Journal</i> , 2012, 44, 939-945.	1.3	13
31	Living Anionic Polymerization of 4-(1-Adamantyl)- $\alpha$ -Methylstyrene. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700450.	1.1	13
32	Silsesquioxane/Poly(2-methoxyethyl acrylate) Hybrid with Both Antithrombotic and Endothelial Cell Adhesive Properties. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4790-4801.	2.0	13
33	Nanoscale film morphology and property characteristics of dielectric polymers bearing monomeric and dimeric adamantane units. <i>Polymer</i> , 2019, 169, 225-233.	1.8	12
34	Understanding the Effect of Hydration on the Bio-inert Properties of 2-Hydroxyethyl Methacrylate Copolymers with Small Amounts of Amino- or/and Fluorine-Containing Monomers. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2855-2866.	2.6	12
35	Molecular Dynamics Study on the Water Mobility and Side-Chain Flexibility of Hydrated Poly( <i>n</i> -methoxyalkyl acrylate)s. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6690-6700.	2.6	10
36	Salt resistivity of poly (4-vinyl benzoic acid) gel. <i>Colloid and Polymer Science</i> , 2006, 285, 485-489.	1.0	8

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37	Periodically Functionalized Linear Polyethylene with Tertiary Amino Groups via Regioselective Ring-Opening Metathesis Polymerization. <i>Macromolecules</i> , 2021, 54, 2862-2872.	2.2	8
38	A fully covered self-expandable metallic stent coated with poly (2-methoxyethyl acrylate) and its derivative: In vitro evaluation of early-stage biliary sludge formation inhibition. <i>Materials Science and Engineering C</i> , 2021, 120, 111386.	3.8	7
39	Effects of Side-Chain Spacing and Length on Hydration States of Poly(2-methoxyethyl acrylate) Analogues: A Molecular Dynamics Study. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2383-2391.	2.6	7
40	Effect of pendant groups on the blood compatibility and hydration states of poly(2-oxazoline)s. <i>Journal of Polymer Science</i> , 2021, 59, 2559-2570.	2.0	7
41	Protein Stabilization Effect of Zwitterionic Osmolyte-bearing Polymer. <i>Chemistry Letters</i> , 2021, 50, 1699-1702.	0.7	7
42	Attachment and Growth of Fibroblast Cells on Poly (2-Methoxyethyl Acrylate) Analog Polymers as Coating Materials. <i>Coatings</i> , 2021, 11, 461.	1.2	6
43	Poly(tertiary amide acrylate) Copolymers Inspired by Poly(2-oxazoline)s: Their Blood Compatibility and Hydration States. <i>Biomacromolecules</i> , 2021, 22, 2718-2728.	2.6	6
44	A simple strategy for robust preparation and characterisation of hydrogels derived from chitosan and amino functional monomers for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5115-5129.	2.9	5
45	In Vitro Endothelialization Test of Biomaterials Using Immortalized Endothelial Cells. <i>PLoS ONE</i> , 2016, 11, e0158289.	1.1	5
46	Spontaneous Copolymerization of 1,3-Dehydroadamantane. <i>Macromolecular Symposia</i> , 2007, 249-250, 373-377.	0.4	4
47	Blood-Compatible Poly(2-methoxyethyl acrylate) Induces Blebbing-like Phenomenon and Promotes Viability of Tumor Cells in Serum-Free Medium. <i>ACS Applied Bio Materials</i> , 2020, 3, 1858-1864.	2.3	4
48	Living anionic polymerization of styrenes containing adamantyl skeletons. <i>Journal of Physics: Conference Series</i> , 2009, 184, 012017.	0.3	3
49	Antithrombotic Protein Filter Composed of Hybrid Tissue-Fabric Material has a Long Lifetime. <i>Annals of Biomedical Engineering</i> , 2017, 45, 1352-1364.	1.3	2
50	Ring-Opening Metathesis Polymerization. , 2014, , 1-12.		0
51	Ring-Opening Metathesis Polymerization. , 2015, , 2154-2164.		0