

Akira Mochizuki

List of Publications by Year in descending order

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62
papers

2,498
citations

257101

24
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189595

50
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63
all docs

63
docs citations

63
times ranked

1705
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Blood compatible aspects of poly(2-methoxyethylacrylate) (PMEA) relationship between protein adsorption and platelet adhesion on PMEA surface. <i>Biomaterials</i> , 2000, 21, 1471-1481. | 5.7 | 460 |
| 2 | Study of Blood Compatibility with Poly(2-methoxyethyl acrylate). Relationship between Water Structure and Platelet Compatibility in Poly(2-methoxyethylacrylate-co-2-hydroxyethylmethacrylate). <i>Biomacromolecules</i> , 2002, 3, 36-41. | 2.6 | 235 |
| 3 | Effect of water structure on blood compatibility? thermal analysis of water in poly(meth)acrylate. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 68A, 684-695. | 3.0 | 198 |
| 4 | Cold crystallization of water in hydrated poly(2-methoxyethyl acrylate) (PMEA). <i>Polymer International</i> , 2000, 49, 1709-1713. | 1.6 | 173 |
| 5 | In situ studies on protein adsorption onto a poly(2-methoxyethylacrylate) surface by a quartz crystal microbalance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 193, 145-152. | 2.3 | 94 |
| 6 | The first successful carbonic anhydrase model prepared through a new route to regiospecifically bifunctionalized cyclodextrin. <i>Journal of the American Chemical Society</i> , 1980, 102, 1152-1153. | 6.6 | 86 |
| 7 | Anti-Biofouling Properties of Polymers with a Carboxybetaine Moiety. <i>Macromolecular Bioscience</i> , 2009, 9, 63-70. | 2.1 | 86 |
| 8 | Study on kinetics of early stage protein adsorption on poly(2-methoxyethylacrylate) (PMEA) surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 203, 195-204. | 2.3 | 81 |
| 9 | Clarification of the Blood Compatibility Mechanism by Controlling the Water Structure at the Blood-Poly(meth)acrylate Interface. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 1849-1863. | 1.9 | 73 |
| 10 | Structure of Water Sorbed into Poly(MEA-co-HEMA) Films As Examined by ATR-IR Spectroscopy. <i>Langmuir</i> , 2003, 19, 429-435. | 1.6 | 69 |
| 11 | Fourier transform infrared study on the sorption of water to various kinds of polymer thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 2175-2182. | 2.4 | 65 |
| 12 | Network structures and dynamics of dry and swollen poly(acrylate)s. Characterization of high- and low-frequency motions as revealed by suppressed or recovered intensities (SRI) analysis of ¹³ C NMR. <i>Polymer</i> , 2009, 50, 6091-6099. | 1.8 | 65 |
| 13 | Pervaporation separation of water/ethanol mixtures through polysaccharide membranes. II. The permselectivity of chitosan membrane. <i>Journal of Applied Polymer Science</i> , 1989, 37, 3375-3384. | 1.3 | 64 |
| 14 | Pervaporation separation of water/ethanol mixtures through polysaccharide membranes. IV. The relationships between the permselectivity of alginic acid membrane and its solid state structure. <i>Journal of Applied Polymer Science</i> , 1990, 40, 385-400. | 1.3 | 60 |
| 15 | Pervaporation separation of water/ethanol mixtures through polysaccharide membranes. III. The permselectivity of the neutralized chitosan membrane and the relationships between its permselectivity and solid state structure. <i>Journal of Applied Polymer Science</i> , 1989, 37, 3385-3398. | 1.3 | 58 |
| 16 | The Structure of Water Sorbed to Polymethoxyethylacrylate Film as Examined by FT-IR Spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2001, 242, 133-140. | 5.0 | 56 |
| 17 | Water Structure and Blood Compatibility of Poly(tetrahydrofurfuryl acrylate). <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009, 20, 591-603. | 1.9 | 48 |
| 18 | Hemodialysis membrane prepared from cellulose/N-methylmorpholine-N-oxide solution. I. Effect of membrane preparation conditions on its permeation characteristics. <i>Journal of Applied Polymer Science</i> , 2002, 84, 2302-2307. | 1.3 | 43 |

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|----|--|-----|-----------|
| 19 | 2H-NMR and 13C-NMR Study of the Hydration Behavior of Poly(2-methoxyethyl acrylate), Poly(2-hydroxyethyl methacrylate) and Poly(tetrahydrofurfuryl acrylate) in Relation to Their Blood Compatibility as Biomaterials. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 1911-1924. | 1.9 | 43 |
| 20 | Comparative study on water structures in polyHEMA and polyMEA by XRD&DSC simultaneous measurement. <i>Journal of Applied Polymer Science</i> , 2009, 111, 476-481. | 1.3 | 40 |
| 21 | Hemodialysis membrane prepared from cellulose/N-methylmorpholine-N-oxide solution. II. Comparative studies on the permeation characteristics of membranes prepared from N-methylmorpholine-N-oxide and cuprammonium solutions. <i>Journal of Applied Polymer Science</i> , 2003, 89, 333-339. | 1.3 | 32 |
| 22 | Pervaporation separation of water/ethanol mixtures through polysaccharide membranes. I. The effects of salts on the permselectivity of cellulose membrane in pervaporation. <i>Journal of Applied Polymer Science</i> , 1989, 37, 3357-3374. | 1.3 | 30 |
| 23 | Study on blood compatibility with poly(2-methoxyethylacrylate)” relationship between surface structure, water structure, and platelet compatibility in 2-methoxyethylacrylate/2-hydroxyethylmethacrylate diblock copolymer. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 540-550. | 2.1 | 28 |
| 24 | Controlled release of argatroban from PLA film” Effect of hydroxylesters as additives on enhancement of drug release. <i>Journal of Applied Polymer Science</i> , 2008, 108, 3353-3360. | 1.3 | 26 |
| 25 | Study on the blood compatibility and biodegradation properties of magnesium alloys. <i>Materials Science and Engineering C</i> , 2015, 47, 204-210. | 3.8 | 25 |
| 26 | Blood compatibility of gas plasma-treated diamond-like carbon surface” Effect of physicochemical properties of DLC surface on blood compatibility. <i>Materials Science and Engineering C</i> , 2011, 31, 567-573. | 3.8 | 21 |
| 27 | Pervaporation separation of water/ethanol mixtures through polysaccharide membranes. V. The relationships between the permselectivity of chitosan salt membrane and its solid state structure. <i>Journal of Applied Polymer Science</i> , 1990, 40, 633-643. | 1.3 | 20 |
| 28 | Surface Engineering by Plasma Techniques of DLC for Medical Materials and Blood-compatibility Evaluation. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2008, 21, 225-230. | 0.1 | 17 |
| 29 | Chitosan membrane for separation of water-ethanol by pervaporation.. <i>Kobunshi Ronbunshu</i> , 1985, 42, 139-142. | 0.2 | 15 |
| 30 | Polyether-segmented nylon hemodialysis membranes. I. Preparation and permeability characteristics of polyether-segmented nylon 610 hemodialysis membrane. <i>Journal of Applied Polymer Science</i> , 1997, 65, 1703-1711. | 1.3 | 15 |
| 31 | Relationship between blood compatibility and water structure” Comparative study between 2-methoxyethylacrylate- and 2-methoxyethylmethacrylate-based random copolymers. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 81A, 710-719. | 2.1 | 15 |
| 32 | Cytocompatibility of magnesium and AZ31 alloy with three types of cell lines using a direct in vitro method. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 145. | 1.7 | 15 |
| 33 | Polyether-segmented nylon hemodialysis membrane. V. Evaluation of blood compatibility of polyether-segmented nylons. <i>Journal of Applied Polymer Science</i> , 1998, 67, 1253-1257. | 1.3 | 12 |
| 34 | Hemodialysis membrane prepared from cellulose/N-methylmorpholine-N-oxide solution. III. The relationship between the drying condition of the membrane and its permeation behavior. <i>Journal of Applied Polymer Science</i> , 2003, 89, 1671-1681. | 1.3 | 11 |
| 35 | Surface Engineering of DLC Thin Films with Controlled Zeta Potential Using Plasma Processing and Evaluation of Cytocompatibility. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2009, 22, 455-460. | 0.1 | 10 |
| 36 | A New Blood Compatible and Permselective Hollow Fiber Membrane for Hemodialysis. <i>ASAIO Journal</i> , 1996, 42, 1019-1026. | 0.9 | 8 |

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|----|---|-----|-----------|
| 37 | Polyether-segmented nylon hemodialysis membrane. VI. Effect of polyether segment on morphology and surface structure of membrane. <i>Journal of Applied Polymer Science</i> , 1998, 69, 1645-1659. | 1.3 | 8 |
| 38 | Study on the Water Structure and Blood Compatibility of Poly(acryloylmorpholine-r-butyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td | 1.9 | 8 |
| 39 | Platelet compatibility of magnesium alloys. <i>Materials Science and Engineering C</i> , 2017, 78, 1119-1124. | 3.8 | 8 |
| 40 | Polyether-segmented nylon hemodialysis membranes. II. Morphologies and permeability characteristics of polyether-segmented nylon 610 membrane prepared by the phase inversion method. <i>Journal of Applied Polymer Science</i> , 1997, 65, 1713-1721. | 1.3 | 7 |
| 41 | Development of Novel DLC Film using Plasma Technique for Medical Material. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2010, 23, 245-250. | 0.1 | 6 |
| 42 | Water Structure and Polymer Dynamics in Hydrated Blood Compatible Polymers. <i>Kobunshi Ronbunshu</i> , 2011, 68, 133-146. | 0.2 | 6 |
| 43 | Water structure in poly(2-hydroxyethyl methacrylate): Effect of molecular weight of poly(2-hydroxyethyl methacrylate) on its property related to water. <i>Journal of Applied Polymer Science</i> , 2012, 125, 53-60. | 1.3 | 6 |
| 44 | Effect of methoxyethyl and methyl ester groups on platelet compatibility of polymers. <i>Journal of Bioactive and Compatible Polymers</i> , 2018, 33, 498-515. | 0.8 | 6 |
| 45 | Synthesis and characterization of poly(hydroxyether). I. Poly(hydroxyether) based on 2,2-bis(4-hydroxyphenyl)hexafluoropropane and 2,2-bis(4-hydroxyphenyl)propane. <i>Journal of Applied Polymer Science</i> , 2001, 80, 1687-1696. | 1.3 | 5 |
| 46 | Study of the water structure in poly(methyl methacrylate-block-2-hydroxyethyl methacrylate) and its relationship to platelet adhesion on the copolymer surface. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015, 26, 750-765. | 1.9 | 5 |
| 47 | Water structure of poly(2-methoxyethyl acrylate) observed by nuclear magnetic resonance spectroscopy. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 1024-1040. | 1.9 | 5 |
| 48 | Polyether-segmented nylon hemodialysis membranes. III. Preparation and properties of new polyether-segmented nylon. <i>Journal of Applied Polymer Science</i> , 1997, 65, 1723-1729. | 1.3 | 4 |
| 49 | Polyether-segmented nylon hemodialysis membranes. IV. Membrane morphologies and permeability characteristics of dialysis membrane composed of poly(ethylene oxide)-segmented Ny69/M10. <i>Journal of Applied Polymer Science</i> , 1997, 65, 1731-1737. | 1.3 | 4 |
| 50 | Biocompatibility and adhesive strength properties of poly(methyl acrylate-co-acrylic acid) as a function of acrylic acid content. <i>Journal of Bioactive and Compatible Polymers</i> , 2019, 34, 479-493. | 0.8 | 4 |
| 51 | Effect of end segment on physicochemical properties and platelet compatibility of poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 1572-1587. | 1.9 | 3 |
| 52 | Studies on surface structures of poly(ethylene oxide)-segmented nylon films. <i>Journal of Polymer Science Part A</i> , 2000, 38, 1045-1056. | 2.5 | 2 |
| 53 | Surface structures of solvent-cast films prepared from poly(ethylene oxide)-segmented nylons. <i>Journal of Applied Polymer Science</i> , 2002, 86, 10-16. | 1.3 | 2 |
| 54 | Relationship between water structure and properties of poly(methyl methacrylate-b-2-hydroxyethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 1.9 | 2 |

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|----|---|-----|-----------|
| 55 | Carbon radicals generated by solid polymers: Electron spin resonance spectroscopy for detection of species in water. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48604. | 1.3 | 2 |
| 56 | Comparative study on water structures of poly(tetrahydrofurfuryl acrylate) and poly(2-hydroxyethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Edition, 2021, 32, 1754-1769. | 1.9 | 2 |
| 57 | Relationship between blood compatibility of polymer material and water structure in it. <i>Journal of Advanced Science</i> , 2005, 17, 245-249. | 0.1 | 2 |
| 58 | Polyether-segmented nylon hemodialysis membrane. VII. Studies on surface structures of various poly(ethylene oxide)-segmented nylon membranes. <i>Journal of Applied Polymer Science</i> , 2000, 77, 517-528. | 1.3 | 1 |
| 59 | Synthesis and characterization of poly(hydroxyether). II. Poly(hydroxyethers) based on various bisphenols and 2,2-bis(4-hydroxyphenyl)hexafluoropropane. <i>Journal of Applied Polymer Science</i> , 2001, 80, 1697-1709. | 1.3 | 0 |
| 60 | The Photopolymer Science and Technology Award. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2010, 23, 7-9. | 0.1 | 0 |
| 61 | Hemodialysis membrane prepared from cellulose/ <i>N,N</i> -methylmorpholine- <i>N,N</i> -oxide solution. IV. Comparative studies on the surface morphology of membranes prepared from <i>N,N</i> -methylmorpholine- <i>N,N</i> -oxide and cuprammonium solutions. <i>Journal of Applied Polymer Science</i> , 2010, 116, 3040-3046. | 1.3 | 0 |
| 62 | Effect of silyl group of methacrylate copolymer on its biocompatibility and ability to give a corrosion resistance to magnesium alloy. <i>Journal of Advanced Science</i> , 2019, 31, n/a. | 0.1 | 0 |