Marisa Beppu

List of Publications by Year
in descending order

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126 papers	5,341 citations	145106 33 h-index	104191 69 g-index
127 all docs	127 docs citations	127 times ranked	8634 citing authors

#	Article	IF	Citations
1	Hybrid alginateâ€“copper sulfate textile coating for coronavirus inactivation. Journal of the American Ceramic Society, 2022, 105, 1748-1752.	1.9	16
2	Cellulose-based electrospun nanofibers: a review. Cellulose, 2022, 29, 25-54.	2.4	29
3	Antibacterial noncytotoxic chitosan coatings on polytetrafluoroethylene films by plasma grafting for medical device applications. Journal of Coatings Technology Research, 2022, 19, 829-838.	1.2	2
4	Densities of the Standard Amino Acids in Aqueous Solutions via Molecular Dynamics Simulations. Journal of Chemical & Engineering Data, 2022, 67, 797-808.	1.0	0
5	Probing axial metal distribution on biopolymer-based layer-by-layer films for antimicrobial use. Colloids and Surfaces B: Biointerfaces, 2021, 199, 111505.	2.5	7
6	Surface modification of PDMS substrates for tumour cell adhesion: Influence of roughness parameters. Medical Devices & Sensors, 2021, 4, e10142.	2.7	7
7	Quantification of palm oil bioactive compounds by ultraâ€highâ€performance supercritical fluid chromatography and chemometrics. Canadian Journal of Chemical Engineering, 2021, , .	0.9	1
8	Controlling antimicrobial activity and drug loading capacity of chitosan-based layer-by-layer films. International Journal of Biological Macromolecules, 2021, 172, 154-161.	3.6	17
9	Control of Surface Properties of Hyaluronan/Chitosan Multilayered Coatings for Tumor Cell Capture. Polysaccharides, 2021, 2, 387-399.	2.1	4
10	Antibacterial effect of hyaluronan/chitosan nanofilm in the initial adhesion of Pseudomonas aeruginosa wild type, and IV pili and LPS mutant strains. Surfaces and Interfaces, 2021, 26, 101415.	1.5	2
11	Amino acid-functionalized chitosan beads for in vitro copper ions uptake in the presence of histidine. International Journal of Biological Macromolecules, 2021, 188, 421-431.	3.6	10
12	Copper Ion Uptake by Chitosan in the Presence of Amyloid-Î² and Histidine. Applied Biochemistry and Biotechnology, 2020, 190, 949-965.	1.4	14
13	Silk fibroin membranes with selfâ€assembled globular structures for controlled drug release. Journal of Applied Polymer Science, 2020, 137, 48763.	1.3	8
14	Effects of histidine modification of chitosan microparticles on metal ion adsorption. Reactive and Functional Polymers, 2020, 154, 104694.	2.0	16
15	Polysaccharide Multilayer Films in Sensors for Detecting Prostate Tumor Cells Based on Hyaluronan-CD44 Interactions. Cells, 2020, 9, 1563.	1.8	17
16	An Overview of Current Knowledge on the Properties, Synthesis and Applications of Quaternary Chitosan Derivatives. Polymers, 2020, 12, 2878.	2.0	44
17	Interplay of the Assembly Conditions on Drug Transport Mechanisms in Polyelectrolyte Multilayer Films. Langmuir, 2020, 36, 12532-12544.	1.6	17
18	Phase Diagram and Estimation of Flory-Huggins Parameter of Interaction of Silk Fibroin/Sodium Alginate Blends. Frontiers in Bioengineering and Biotechnology, 2020, 8, 973.	2.0	13

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19	Fundamentals and biomedical applications of biopolymer-based layer-by-layer films. , 2020, , 219-242.		3
20	Engineering the surface of prostate tumor cells and hyaluronan/chitosan multilayer films to modulate cell-substrate adhesion properties. International Journal of Biological Macromolecules, 2020, 158, 197-207.	3.6	11
21	Tracking Sulfonated Polystyrene Diffusion in a Chitosan/Carboxymethyl Cellulose Layer-by-Layer Film: Exploring the Internal Architecture of Nanocoatings. Langmuir, 2020, 36, 4985-4994.	1.6	10
22	Analysis of pH and salt concentration on structural and model-drug delivery properties of polysaccharide-based multilayered films. Thin Solid Films, 2019, 685, 312-320.	0.8	16
23	Freezing influence on physical properties of glucomannan hydrogels. International Journal of Biological Macromolecules, 2019, 128, 401-405.	3.6	29
24	Glucomannan asymmetric membranes for wound dressing. Journal of Materials Research, 2019, 34, 481-489.	1.2	20
25	Ionic liquid functionalization of chitosan beads for improving thermal stability and copper ions uptake from aqueous solution. Journal of Environmental Chemical Engineering, 2019, 7, 103181.	3.3	19
26	Assessing the influence of silkworm cocoonâ€™s age on the physicochemical properties of silk fibroin-based materials. Journal of Materials Research, 2019, 34, 1944-1949.	1.2	3
27	Tailored chitosan/hyaluronan coatings for tumor cell adhesion: Effects of topography, charge density and surface composition. Applied Surface Science, 2019, 486, 508-518.	3.1	22
28	Coated electrospun bioactive wound dressings: Mechanical properties and ability to control lesion microenvironment. Materials Science and Engineering C, 2019, 100, 493-504.	3.8	43
29	Characterization and in vitro evaluation of chitosan/konjac glucomannan bilayer film as a wound dressing. Carbohydrate Polymers, 2019, 212, 59-66.	5.1	64
30	Silk fibroin/nanohydroxyapatite hydrogels for promoted bioactivity and osteoblastic proliferation and differentiation of human bone marrow stromal cells. Materials Science and Engineering C, 2018, 89, 336-345.	3.8	24
31	Investigation of the Internal Chemical Composition of Chitosan-Based LbL Films by Depth-Profiling X-ray Photoelectron Spectroscopy (XPS) Analysis. Langmuir, 2018, 34, 1429-1440.	1.6	35
32	Antibacterial properties of chitosan-based coatings are affected by spacer-length and molecular weight. Applied Surface Science, 2018, 445, 478-487.	3.1	44
33	Influence of pH and ionic strength on the antibacterial effect of hyaluronic acid/chitosan films assembled layer-by-layer. European Polymer Journal, 2018, 109, 198-205.	2.6	26
34	Chitosan Functionalization with Amino Acids Yields to Higher Copper Ions Adsorption Capacity. Journal of Polymers and the Environment, 2018, 26, 4338-4349.	2.4	15
35	Study of phase separation in blends of silk fibroin and sodium alginate in solution and in solid state. Journal of Polymer Research, 2018, 25, 1.	1.2	6
36	Synthesis and Properties of Silk Fibroin/Konjac Glucomannan Blend Beads. Polymers, 2018, 10, 923.	2.0	11

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37	Adsorption of copper on glass beads coated with chitosan: Stirred batch and fixed bed analysis. Canadian Journal of Chemical Engineering, 2017, 95, 1164-1170.	0.9	6
38	Production and characterization of fibroin hydrogel using waste silk fibers. Fibers and Polymers, 2017, 18, 57-63.	1.1	19
39	Synthesis and characterization of chitosan membranes functionalized with amino acids and copper for adsorption of endoglucanase. Powder Technology, 2017, 315, 250-257.	2.1	23
40	Roughness dynamic in surface growth: Layer-by-layer thin films of carboxymethyl cellulose/chitosan for biomedical applications. Biointerphases, 2017, 12, 04E401.	0.6	17
41	Formation of complexes between functionalized chitosan membranes and copper: A study by angle resolved XPS. Materials Chemistry and Physics, 2017, 185, 152-161.	2.0	59
42	Antibacterial silk fibroin/nanohydroxyapatite hydrogels with silver and gold nanoparticles for bone regeneration. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 231-239.	1.7	119
43	Phase Behaviour and Miscibility Studies of Collagen/Silk Fibroin Macromolecular System in Dilute Solutions and Solid State. Molecules, 2017, 22, 1368.	1.7	21
44	Nanofilms of hyaluronan/chitosan assembled layer-by-layer: An antibacterial surface for Xylella fastidiosa. Carbohydrate Polymers, 2016, 136, 1-11.	5.1	46
45	In vitro evaluation of anti-calcification and anti-coagulation on sulfonated chitosan and carrageenan surfaces. Materials Science and Engineering C, 2016, 59, 241-248.	3.8	27
46	Liposomeâ€Loaded Cell Backpacks. Advanced Healthcare Materials, 2015, 4, 2832-2841.	3.9	37
47	Targeted Drug Delivery: Liposome-Loaded Cell Backpacks (Adv. Healthcare Mater. 18/2015). Advanced Healthcare Materials, 2015, 4, 2831-2831.	3.9	1
48	Surface modification of polyelectrolyte multilayers by high radio frequency air plasma treatment. Applied Surface Science, 2015, 329, 287-291.	3.1	11
49	Removal of glyphosate herbicide from water using biopolymer membranes. Journal of Environmental Management, 2015, 151, 353-360.	3.8	104
50	Formation of silk fibroin hydrogel and evaluation of its drug release profile. Journal of Applied Polymer Science, 2015, 132, .	1.3	28
51	Preface: 10th Brazilian meeting on adsorption. Adsorption, 2015, 21, 1-2.	1.4	2
52	Optimization of Amine-Rich Multilayer Thin Films for the Capture and Quantification of Prostate-Specific Antigen. Langmuir, 2015, 31, 5479-5488.	1.6	7
53	Development of silk fibroin/nanohydroxyapatite composite hydrogels for bone tissue engineering. European Polymer Journal, 2015, 67, 66-77.	2.6	82
54	Laser surface structuring affects polymer deposition, coating homogeneity, and degradation rate of Mg alloys. Materials Letters, 2015, 160, 359-362.	1.3	21

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55	Factors Controlling the Deposition of Silk Fibroin Nanofibrils during Layer-by-Layer Assembly. Biomacromolecules, 2015, 16, 97-104.	2.6	19
56	Synthesis and application of natural polymeric plasticizer obtained through polyesterification of rice fatty acid. Materials Research, 2014, 17, 386-391.	0.6	32
57	Effects of sterilization methods on the physical, chemical, and biological properties of silk fibroin membranes. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 869-876.	1.6	41
58	Chromium removal on chitosan-based sorbents â€“ An EXAFS/XANES investigation of mechanism. Materials Chemistry and Physics, 2014, 146, 412-417.	2.0	50
59	Silk fibroin and sodium alginate blend: Miscibility and physical characteristics. Materials Science and Engineering C, 2014, 40, 85-91.	3.8	37
60	Sugar-Mediated Disassembly of Mucin/Lectin Multilayers and Their Use as pH-Tolerant, On-Demand Sacrificial Layers. Biomacromolecules, 2014, 15, 3093-3098.	2.6	27
61	Introduction of copper nanoparticles in chitosan matrix as strategy to enhance chromate adsorption. Chemical Engineering and Processing: Process Intensification, 2014, 83, 43-48.	1.8	13
62	Covalent Grafting of Chitosan on Plasma-Treated Polytetrafluoroethylene Surfaces for Biomedical Applications. Journal of Biomaterials and Tissue Engineering, 2014, 4, 915-924.	0.0	16
63	Epoxidation of modified natural plasticizer obtained from rice fatty acids and application on polyvinylchloride films. Journal of Applied Polymer Science, 2013, 127, 3543-3549.	1.3	42
64	Glycerin and ethanol as additives on silk fibroin films: Insoluble and malleable films. Journal of Applied Polymer Science, 2013, 128, 115-122.	1.3	23
65	Blood protein adsorption on sulfonated chitosan and Îº-carrageenan films. Colloids and Surfaces B: Biointerfaces, 2013, 111, 719-725.	2.5	49
66	Chitosan and alginate biopolymer membranes for remediation of contaminated water with herbicides. Journal of Environmental Management, 2013, 131, 222-227.	3.8	64
67	An XPS study of chromate and vanadate sorption mechanism by chitosan membrane containing copper nanoparticles. Chemical Engineering Journal, 2013, 234, 423-429.	6.6	108
68	Stabilization of anthocyanin extract from jabuticaba skins by encapsulation using supercritical CO2 as solvent. Food Research International, 2013, 50, 617-624.	2.9	130
69	Inhibition of calcification of bovine pericardium after treatment with biopolymers, E-beam irradiation and in vitro endothelization. Materials Science and Engineering C, 2013, 33, 85-90.	3.8	13
70	<scp>BSA</scp> and Fibrinogen Adsorption on Chitosan/Îºâ€<scp>C</scp>arrageenan Polyelectrolyte Complexes. Macromolecular Bioscience, 2013, 13, 1072-1083.	2.1	21
71	Biocomposite membranes of sodium alginate and silk fibroin fibers for biomedical applications. Journal of Applied Polymer Science, 2013, 130, 3451-3457.	1.3	46
72	Evaluation of Glass Beads Coated with Chitosan for the Adsorption of Copper(II) Ions from Aqueous Solution. Adsorption Science and Technology, 2012, 30, 227-240.	1.5	7

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73	Mechanical and Biological Performances of New Scaffolds Made of Collagen Hydrogels and Fibroin Microfibers for Vascular Tissue Engineering. Macromolecular Bioscience, 2012, 12, 1253-1264.	2.1	25
74	Multilayer biopolymer membranes containing copper for antibacterial applications. Journal of Applied Polymer Science, 2012, 126, E17.	1.3	17
75	Use of Biopolymeric Membranes for Adsorption of Paraquat Herbicide from Water. Water, Air, and Soil Pollution, 2012, 223, 3093-3104.	1.1	32
76	Effects of supercritical carbon dioxide on waste banana peels for heavy metal removal. Journal of Supercritical Fluids, 2011, 58, 343-351.	1.6	68
77	Natural-based plasticizers and biopolymer films: A review. European Polymer Journal, 2011, 47, 254-263.	2.6	1,425
78	Copper, mercury and chromium adsorption on natural and crosslinked chitosan films: An XPS investigation of mechanism. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 374, 108-114.	2.3	260
79	Hydrogels from silk fibroin metastable solution: Formation and characterization from a biomaterial perspective. Materials Science and Engineering C, 2011, 31, 997-1001.	3.8	42
80	Polyvinylchloride (PVC) and natural rubber films plasticized with a natural polymeric plasticizer obtained through polyesterification of rice fatty acid. Polymer Testing, 2011, 30, 478-484.	2.3	177
81	Production and characterization of chitosan microparticles containing papain for controlled release applications. Powder Technology, 2011, 205, 65-70.	2.1	45
82	Bovine pericardium coated with biopolymeric films as an alternative to prevent calcification: In vitro calcification and cytotoxicity results. Materials Science and Engineering C, 2010, 30, 575-582.	3.8	33
83	Preparation and characterization of ethanol-treated silk fibroin dense membranes for biomaterials application using waste silk fibers as raw material. Bioresource Technology, 2010, 101, 8446-8451.	4.8	118
84	Natural and Prosthetic Heart Valve Calcification: Morphology and Chemical Composition Characterization. Artificial Organs, 2010, 34, 311-318.	1.0	26
85	Dynamic adsorption of chromium ions onto natural and crosslinked chitosan membranes for wastewater treatment. Materials Research, 2010, 13, 89-94.	0.6	10
86	Characterization and evaluation of copper and nickel biosorption on acidic algae Sargassum Filipendula. Materials Research, 2010, 13, 541-550.	0.6	50
87	Preparation and Characterization of Insoluble Silk Fibroin/Chitosan Blend Films. Polymers, 2010, 2, 719-727.	2.0	83
88	Effect of Freeze-Drying on the Mechanical, Physical and Morphological Properties of Glutaraldehyde-Treated Bovine Pericardium: Evaluation of Freeze-Dried Treated Bovine Pericardium Properties. Journal of Applied Biomaterials and Biomechanics, 2010, 8, 186-190.	0.4	4
89	Layer-by-Layer Deposited Chitosan/Silk Fibroin Thin Films with Anisotropic Nanofiber Alignment. Langmuir, 2010, 26, 8953-8958.	1.6	51
90	Bioactive Polyelectrolyte Multilayers: Hyaluronic Acid Mediated B Lymphocyte Adhesion. Biomacromolecules, 2010, 11, 2407-2414.	2.6	55

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91	The influence of freezing rates on bovine pericardium tissue Freeze-drying. Brazilian Archives of Biology and Technology, 2009, 52, 1493-1504.	0.5	14
92	A new method to prepare porous silk fibroin membranes suitable for tissue scaffolding applications. Journal of Applied Polymer Science, 2009, 114, 617-623.	1.3	28
93	Investigation on the biomimetic influence of biopolymers on calcium phosphate precipitationâ€"Part 1: Alginate. Materials Science and Engineering C, 2009, 29, 1109-1113.	3.8	9
94	Silver Nanoparticles Obtained in PAH/PAA-Based Multilayers by Photochemical Reaction. Journal of Physical Chemistry C, 2009, 113, 19005-19010.	1.5	22
95	Effect of freezing methods on the properties of lyophilized porous silk fibroin membranes. Materials Research, 2009, 12, 233-237.	0.6	28
96	An EXAFS Study Of The Binding Of Chromium, Mercury And Copper On Natural, Crosslinked And Multilayer Chitosan Films. , 2009, , .		0
97	A Comparative Study between Î²-TCP Prepared by Solid State Reaction and by Aqueous Solution Precipitation: Application in Cements. Key Engineering Materials, 2008, 361-363, 355-358.	0.4	5
98	In Vitro Calcification of Silk Fibroin Hydrogel. Key Engineering Materials, 2008, 361-363, 503-506.	0.4	5
99	Investigation on the biomimetic influence of biopolymers on calcium phosphate precipitation-part 2: Chitosan. Materials Science and Engineering C, 2008, 28, 1565-1571.	3.8	8
100	Cytotoxicity and Genotoxicity of Bovine Pericardium Preserved in Glycerol. Artificial Organs, 2008, 32, 272-276.	1.0	14
101	Study of Morphology of Cardiac Valves (Human and Bovine Pericardium) after In Vivo Calcification. Key Engineering Materials, 2008, 396-398, 191-194.	0.4	0
102	Effects of chitosan solution concentration and incorporation of chitin and glycerol on dense chitosan membrane properties. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 80B, 394-405.	1.6	34
103	Lyophilized Bovine Pericardium Treated With a Phenethylamine-Diepoxide as an Alternative to Preventing Calcification of Cardiovascular Bioprosthesis: Preliminary Calcification Results. Artificial Organs, 2007, 31, 278-283.	1.0	27
104	THE INFLUENCE OF FREEZING RATES ON THE BOVINE PERICARDIUM TISSUE FREEZE-DRYING. , 2007, , .		0
105	Dynamic and static adsorption and desorption of Hg(II) ions on chitosan membranes and spheres. Water Research, 2006, 40, 1726-1734.	5.3	212
106	Interaction of natural and crosslinked chitosan membranes with Hg(II) ions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 279, 196-207.	2.3	192
107	Precipitation of calcium phosphate and calcium carbonate induced over chitosan membranes: A quick method to evaluate the influence of polymeric matrices in heterogeneous calcification. Colloids and Surfaces B: Biointerfaces, 2006, 53, 15-22.	2.5	24
108	Investigations into the early stages of â€œin vitroâ€•calcification on chitosan films. Materials Science and Engineering C, 2006, 26, 78-86.	3.8	21

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109	Development and Characterization of Î²- Tricalcium Phosphate Cements Containing Chitosan. Key Engineering Materials, 2006, 309-311, 845-848.	0.4	2
110	Influence of Alginate on Precipitation of Calcium Phosphates. Key Engineering Materials, 2006, 309-311, 195-198.	0.4	2
111	Chitosan membrane with patterned surface obtained through solution drying. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 268, 175-179.	2.3	10
112	Mercury Ion Recovery Using Natural and Crosslinked Chitosan Membranes. Adsorption, 2005, 11, 731-736.	1.4	68
113	In vitro mineralization on chitosan using solutions with excess of calcium and phosphate ions. Journal of Materials Research, 2005, 20, 3303-3311.	1.2	7
114	PAA influence on chitosan membrane calcification. Materials Science and Engineering C, 2003, 23, 651-658.	3.8	20
115	Influence of Acetylation on In Vitro Chitosan Membrane Biomineralization. Key Engineering Materials, 2003, 254-256, 311-314.	0.4	11
116	In Vitro Biomineralization of Chitosan. Key Engineering Materials, 2000, 192-195, 31-34.	0.4	12
117	Nanosized Particles of Aluminum Polyphosphate. Langmuir, 1996, 12, 1701-1703.	1.6	6
118	Aluminum Phosphate Particles Containing Closed Pores: Preparation, Characterization, and Use as a White Pigment. Journal of Colloid and Interface Science, 1996, 178, 93-103.	5.0	21
119	Non-Crystalline Aluminum Polyphosphates: Preparation and Properties. Journal of the Brazilian Chemical Society, 1996, 7, 209-215.	0.6	8
120	Porous Silk Fibroin Membrane as a Potential Scaffold for Bone Regeneration. Key Engineering Materials, 0, 396-398, 187-190.	0.4	8
121	Collagen-Silk Fibroin Fibers: A Promising Scaffold for Vascular Tissue Engineering. Materials Science Forum, 0, 706-709, 572-577.	0.3	0
122	Membranes of Chitosan and Collagen-Type 1 for Biomineralization/Ostheogenesis. Key Engineering Materials, 0, 587, 222-226.	0.4	0
123	<i>In Situ</i> X-Ray Diffraction Study of Phase Development during Hardening of Î²-Tricalcium Phosphate Bone Cements with Chitosan. Key Engineering Materials, 0, 587, 109-114.	0.4	1
124	Layer-by-Layer Thin Films of Alginate/Chitosan and Hyaluronic Acid/Chitosan with Tunable Thickness and Surface Roughness. Materials Science Forum, 0, 783-786, 1226-1231.	0.3	8
125	InvestigaÃ§Ã£o da influÃªncia de fatores de formaÃ§Ã£o no desenvolvimento de recobrimentos polimÃ©ricos via layer-by-layer spin coater. , 0, , .		0
126	Recobrimentos nanoestruturados a base de Ã¡cido hialurÃ´nico e quitosana com propriedades controladas para fins de interesse biomÃ©dico. , 0, , .		0