Masao Tamada

List of Publications by Year in descending order

115 papers	3,313 citations	186265 28 h-index	168389 53 g-index
116 all docs	116 docs citations	116 times ranked	2466 citing authors

#	Article	IF	Citations
1	Enhanced trace phosphate removal from water by zirconium(IV) loaded fibrous adsorbent. Water Research, 2011, 45, 4592-4600.	11.3	277
2	Arsenate removal from water by a weak-base anion exchange fibrous adsorbent. Water Research, 2008, 42, 689-696.	11.3	233
3	A weak-base fibrous anion exchanger effective for rapid phosphate removal from water. Journal of Hazardous Materials, 2011, 188, 164-171.	12.4	217
4	Aquaculture of Uranium in Seawater by a Fabric-Adsorbent Submerged System. Nuclear Technology, 2003, 144, 274-278.	1.2	151
5	Bacterial adhesion to and viability on positively charged polymer surfaces. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.8	129
6	Properties of crosslinked polylactides (PLLA & PDLA) by radiation and its biodegradability. European Polymer Journal, 2007, 43, 1779-1785.	5.4	118
7	Current status of adsorbent for metal ions with radiation grafting and crosslinking techniques. Nuclear Instruments & Methods in Physics Research B, 2005, 236, 21-29.	1.4	112
8	Application of poly(lactic acid) modified by radiation crosslinking. Nuclear Instruments & Methods in Physics Research B, 2005, 236, 611-616.	1.4	89
9	Fine Fibrous Amidoxime Adsorbent Synthesized by Grafting and Uranium Adsorptionâ€“Elution Cyclic Test with Seawater. Separation Science and Technology, 2004, 39, 3753-3767.	2.5	82
10	Application of radiation-graft material for metal adsorbent and crosslinked natural polymer for healthcare product. Radiation Physics and Chemistry, 2004, 71, 223-227.	2.8	71
11	Elucidation of dominant effect on initial bacterial adhesion onto polymer surfaces prepared by radiation-induced graft polymerization. Colloids and Surfaces B: Biointerfaces, 2005, 43, 99-107.	5.0	65
12	Rapid removal of arsenic(V) by zirconium(IV) loaded phosphoric chelate adsorbent synthesized by radiation induced graft polymerization. Reactive and Functional Polymers, 2004, 59, 235-241.	4.1	62
13	Cost Estimation of Uranium Recovery from Seawater with System of Braid Type Adsorbent. Transactions of the Atomic Energy Society of Japan, 2006, 5, 358-363.	0.3	59
14	Radiation-induced graft polymerization of glycidyl methacrylate onto PE/PP nonwoven fabric and its modification toward enhanced amidoximation. Journal of Applied Polymer Science, 2007, 105, 1551-1558.	2.6	57
15	Biodegradable metal adsorbent synthesized by graft polymerization onto nonwoven cotton fabric. Radiation Physics and Chemistry, 2010, 79, 16-21.	2.8	56
16	Adsorption Efficiency of a New Adsorbent Towards Uranium and Vanadium Ions at Low Concentrations. Separation Science and Technology, 2005, 39, 1631-1643.	2.5	55
17	Emulsion grafting of glycidyl methacrylate onto polyethylene fiber. Radiation Physics and Chemistry, 2010, 79, 22-26.	2.8	53
18	Adsorption of metal ions by carboxymethylchitin and carboxymethylchitosan hydrogels. Nuclear Instruments & Methods in Physics Research B, 2005, 236, 617-623.	1.4	52

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19	Zirconium(IV) Loaded Bifunctional Fiber Containing Both Phosphonate and Sulfonate as Arsenate Adsorbent. Journal of Ion Exchange, 2007, 18, 422-427.	0.3	50
20	High-speed recovery of antimony using chelating porous hollow-fiber membrane. Journal of Membrane Science, 2003, 214, 275-281.	8.2	47
21	A Highly Efficient Chelating Polymer for the Adsorption of Uranyl and Vanadyl Ions at Low Concentrations. Adsorption, 2005, 10, 309-315.	3.0	37
22	Preparation of polyvinylcarbazole thin film with vapor deposition polymerization. Thin Solid Films, 1995, 268, 18-21.	1.8	36
23	Platinum and palladium ions adsorption at the trace amounts by radiation crosslinked carboxymethylchitin and carboxymethylchitosan hydrogels. Journal of Applied Polymer Science, 2007, 104, 4015-4023.	2.6	35
24	Radiation deterioration in mechanical properties and ion exchange capacity of Nafion N117 swelling in water. Journal of Membrane Science, 2008, 322, 249-255.	8.2	31
25	UV polymerization of triphenylaminemethylacrylate thin film on ITO substrate. Polymer, 1999, 40, 3061-3067.	3.8	30
26	Convection-aided collection of metal ions using chelating porous flat-sheet membranes. Journal of Chromatography A, 2002, 954, 277-283.	3.7	30
27	Fibrous Iminodiacetic Acid Chelating Cation Exchangers with a Rapid Adsorption Rate. Industrial & Engineering Chemistry Research, 2004, 43, 1599-1607.	3.7	30
28	Removal of Antimony (III) Using Polyol-Ligand-Containing Porous Hollow-Fiber Membranes. Separation Science and Technology, 2004, 39, 3011-3022.	2.5	30
29	Production of Cycloisomaltooligosaccharides from Dextran Using Enzyme Immobilized in Multilayers onto Porous Membranes. Biotechnology Progress, 2002, 18, 465-469.	2.6	29
30	Radiation-induced grafting of dimethylaminoethylmethacrylate onto PE/PP nonwoven fabric. Nuclear Instruments & Methods in Physics Research B, 2007, 265, 204-207.	1.4	28
31	Radiation induced emulsion graft polymerization of 4-vinylpyridine onto PE/PP nonwoven fabric for As(V) adsorption. Radiation Physics and Chemistry, 2016, 127, 13-20.	2.8	28
32	Radiationâ€induced crosslinking and mechanical properties of blends of poly(lactic acid) and poly(butylene terephthalateâ€coâ€adipate). Journal of Applied Polymer Science, 2008, 109, 3321-3328.	2.6	27
33	Production of l(+)-lactic acid by immobilized cells of Rhizopus oryzae with polymer supports prepared by Î³ ray induced polymerization. Journal of Bioscience and Bioengineering, 1992, 74, 379-383.	0.9	26
34	Enhancement of Plant Growth Activity of Irradiated Chitosan by Molecular Weight Fractionation. Radioisotopes, 2006, 55, 21-27.	0.2	25
35	Control of biodegradability of poly(3-hydroxybutyric acid) film with grafting acrylic acid and thermal remolding. Journal of Applied Polymer Science, 2006, 101, 3856-3861.	2.6	25
36	Periodical batch culture of the immobilized growing fungiSporotrichum cellulophilum producing cellulase in the nonwoven materials. Biotechnology and Bioengineering, 1986, 28, 1227-1232.	3.3	24

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37	Structure of polyolâ€“ligand-containing polymer brush on the porous membrane for antimony(III) binding. Journal of Membrane Science, 2004, 236, 65-71.	8.2	24
38	Solvent effect on protein binding by polymer brush grafted onto porous membranes. Journal of Chromatography A, 2002, 953, 101-109.	3.7	23
39	Synthesis of Graft Adsorbent with N-Methyl-D-glucamine for Boron Adsorption. Journal of Ion Exchange, 2007, 18, 236-239.	0.3	23
40	Vapor deposition polymerization of N-methylolacrylamide. Thin Solid Films, 1994, 251, 36-39.	1.8	22
41	Cation-Exchange Porous Hollow-Fiber Membranes Prepared by Radiation-Induced Cografting of GMA and EDMA Which Improved Pure Water Permeability and Sodium Ion Adsorptivity. Industrial & Engineering Chemistry Research, 2002, 41, 5686-5691.	3.7	22
42	Recovery of Sb(V) using a functional-ligand-containing porous hollow-fiber membrane prepared by radiation-induced graft polymerization. Hydrometallurgy, 2006, 81, 190-196.	4.3	22
43	Biodegradability of poly(3-hydroxybutyrate) film grafted with vinyl acetate: Effect of grafting and saponification. Radiation Physics and Chemistry, 2007, 76, 1075-1083.	2.8	22
44	Removal of boron by boron-selective adsorbent prepared using radiation induced grafting technique. Desalination and Water Treatment, 2013, 51, 2602-2608.	1.0	22
45	Properties of Trichoderma reesei cells immobilized by the irradiation technique. Enzyme and Microbial Technology, 1984, 6, 411-414.	3.2	21
46	Properties of a poly(<scp>L</scp>â€lactic acid)/poly(<scp>D</scp>â€lactic acid) stereocomplex and the stereocomplex crosslinked with triallyl isocyanurate by irradiation. Journal of Applied Polymer Science, 2008, 110, 2358-2365.	2.6	21
47	Stimulus-responsive track pores. Radiation Effects and Defects in Solids, 1993, 126, 409-412.	1.2	19
48	Highly Multilayered Urease Decomposes Highly Concentrated Urea. Biotechnology Progress, 2003, 19, 396-399.	2.6	19
49	Durability of Irradiated Polymers in Solid-Polymer-Electrolyte Water Electrolyzer. Journal of Nuclear Science and Technology, 2005, 42, 636-642.	1.3	19
50	Radiation deterioration of ion-exchange Nafion N117CS membranes. Radiation Physics and Chemistry, 2010, 79, 46-51.	2.8	19
51	ESR study on radiation-induced radicals in carboxymethyl cellulose aqueous solution. Radiation Physics and Chemistry, 2011, 80, 149-152.	2.8	19
52	Enhancement of cellulase production by immobilization ofTrichoderma reesei cells. Biotechnology and Bioengineering, 1989, 33, 1358-1362.	3.3	18
53	Real-time in-situ observation of vapor deposition polymerization of N-methylolacrylamide with IR-RAS. Thin Solid Films, 1995, 260, 168-173.	1.8	17
54	Conversion of Dextran to Cycloisomaltooligosaccharides Using an Enzyme-Immobilized Porous Hollow-Fiber Membrane. Journal of Agricultural and Food Chemistry, 2002, 50, 1073-1076.	5.2	17

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55	Emulsion grafting of vinyl acetate onto preirradiated poly(3â€hydroxybutyrate) film. Journal of Applied Polymer Science, 2008, 107, 2289-2294.	2.6	17
56	Direct Synthesis of Adsorbent Having Phosphoric Acid with Radiation Induced Graftpolymerization. Journal of Ion Exchange, 2003, 14, 209-212.	0.3	17
57	Esterification of lauric acid using lipase immobilized in the micropores of a hollow-fiber membrane. JAOCS, Journal of the American Oil Chemists' Society, 2006, 83, 209-213.	1.9	16
58	Effect of hydrophilic and hydrophobic monomers grafting on microbial poly(3-hydroxybutyrate). Journal of the Taiwan Institute of Chemical Engineers, 2009, 40, 413-417.	5.3	16
59	Radiation-induced crosslinking of NafionÂ® N117CS membranes. Journal of Membrane Science, 2011, 369, 397-403.	8.2	16
60	External stimulus-responsive poly(methacryloyldipeptides) having sequences of l-amino acyl-l-alanine ethyl esters as pendant groups. European Polymer Journal, 1991, 27, 493-499.	5.4	15
61	Optimization of reaction conditions in production of cycloisomaltooligosaccharides using enzyme immobilized in multilayers onto pore surface of porous hollow-fiber membranes. Journal of Membrane Science, 2002, 205, 175-182.	8.2	15
62	Distinctive radiation durability of an ion exchange membrane in the SPE water electrolyzer for the ITER water detritiation system. Fusion Engineering and Design, 2006, 81, 815-820.	1.9	15
63	Study and Optimization on graft polymerization under normal pressure and air atmospheric conditions, and its application to metal adsorbent. Radiation Physics and Chemistry, 2012, 81, 889-898.	2.8	15
64	Rapid Biodiesel Fuel Production Using Novel Fibrous Catalyst Synthesized by Radiation-Induced Graft Polymerization. International Journal of Organic Chemistry, 2011, 01, 20-25.	0.7	15
65	Formation of a thin film of poly(octadecyl methacrylate) using the physical vapour deposition technique. Polymer, 1991, 32, 2064-2069.	3.8	14
66	Thermo-response of ion track pores in copolymer films of methacryloyl-l-alanine methyl ester and diethyleneglycol-bis-allylcarbonate. Polymer, 1992, 33, 3169-3172.	3.8	14
67	Production of Tripeptide from Gelatin Using Collagenase-Immobilized Porous Hollow-Fiber Membrane. Biotechnology Progress, 2008, 19, 1365-1367.	2.6	14
68	Effect of partial delignification of kenaf bast fibers for radiation graft copolymerization. Journal of Applied Polymer Science, 2013, 127, 2891-2895.	2.6	13
69	FTIR reflection absorption spectroscopy for organic thin film on ITO substrate. Thin Solid Films, 1998, 315, 40-43.	1.8	12
70	Properties of bifunctional phosphonate fibers derived from chloromethylstyrene grafted polyolefin fibers. Reactive and Functional Polymers, 2009, 69, 1-8.	4.1	12
71	Palm oil-based biodiesel synthesis by radiation-induced kenaf catalyst packed in a continuous flow system. Industrial Crops and Products, 2019, 136, 102-109.	5.2	12
72	Preparation of bifunctional chelating fiber containing iminodi(methylphosphonate) and sulfonate and its performances in column-mode uptake of Cu(II) and Zn(II). Reactive and Functional Polymers, 2010, 70, 508-515.	4.1	11

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73	Radiation-Induced Degradation in Ion Exchange Resins for a Water Detritiation System. Fusion Science and Technology, 2009, 56, 163-167.	1.1	10
74	Emulsion graft polymerization of 4-chloromethylstyrene on kenaf fiber by pre-irradiation method. Radiation Physics and Chemistry, 2013, 82, 63-68.	2.8	10
75	Continuous cellulase production by immobilizedSporotrichum cellulophilum and continuous saccharification of bagasse. Biotechnology and Bioengineering, 1987, 30, 697-702.	3.3	9
76	Real-time in situ observation of photo-induced vapordeposition polymerization of N-vinylcarbazole with Fourier transform IR reflection absorption spectroscopy. Thin Solid Films, 1997, 292, 164-168.	1.8	9
77	SYNTHESIS AND EVALUATION OF LONG BRAID ADSORBENT FOR RECOVERY OF URANIUM FROM SEAWATER. Proceedings of Civil Engineering in the Ocean, 2004, 20, 611-616.	0.0	9
78	Skin-layer formation on porous membrane by immobilized dextransucrase. AICHE Journal, 2004, 50, 696-700.	3.6	8
79	Biodegradability of Blend Hydrogels Based on Carboxymethyl Cellulose and Carboxymethyl Starch. Transactions of the Materials Research Society of Japan, 2011, 36, 397-400.	0.2	8
80	Improvement of cellulase activity by immobilization of sporotrichum cellulophilum. Biotechnology and Bioengineering, 1989, 33, 1343-1346.	3.3	7
81	Preparation of hydrolyzed pH responsive ion track membrane. Macromolecular Rapid Communications, 1995, 16, 47-51.	3.9	7
82	Design of polymer brushes for immobilizing enzymes onto hollow fiber micropores in organic media reaction. Biochemical Engineering Journal, 2007, 37, 159-165.	3.6	7
83	Effect of structure of polymer support on the growth ofSporotrichum cellulophilum immobilized by polymerization induced by gamma rays. Biotechnology and Bioengineering, 1988, 32, 386-390.	3.3	6
84	Synthesis and polymerization of (S)-2-methacryloyloxymethyl-1-(4-nitrophenyl)pyrrolidine. Die Makromolekulare Chemie Rapid Communications, 1989, 10, 517-520.	1.1	6
85	Surface Treatment of Poly(tetrafluoroethylene) and Perfluoroethylene-propylene by Radiation Grafting. Japanese Journal of Applied Physics, 2006, 45, 9244-9246.	1.5	6
86	Experimental durability studies of electrolysis cell materials for a water detritiation system. Fusion Engineering and Design, 2008, 83, 1410-1413.	1.9	6
87	Preparation of Polylactic Acid Nonwoven Fabric-based Metal Adsorbent by Radiation-induced Graft Polymerization. Journal of Ion Exchange, 2007, 18, 214-219.	0.3	5
88	Solid-Polymer-Electrolyte Tritiated Water Electrolyzer for Water Detritiation System. Fusion Science and Technology, 2008, 54, 458-461.	1.1	5
89	Micro-fabrication of Biodegradable Polymers using Focused Ion Beam. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2010, 23, 393-397.	0.3	5
90	Bifunctional Phosphonate Fiber Derived from Vinylbiphenyl-grafted Polyethylene-coated Polypropylene Fiber for Extremely Rapid Removal of Iron (III). Journal of Ion Exchange, 2003, 14, 69-72.	0.3	5

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91	Study of System to Utilize the Waste of Scallop Processing-Removal of cadmium from the boiled mid-gut gland of the scallop-. Journal of Ion Exchange, 2004, 15, 10-15.	0.3	5
92	Estimation of cellulase activity based on glucose productivity. Biotechnology and Bioengineering, 1988, 32, 920-922.	3.3	4
93	Change of molecular orientation with post-polymerization of a thin film of N-methylolacrylamide prepared with VDP. Thin Solid Films, 1996, 274, 66-69.	1.8	4
94	Real-time in-situ observation of PVD of N-vinylcarbazole with FTIR-RAS. Thin Solid Films, 1997, 293, 113-116.	1.8	4
95	Durability of Irradiated Polymers in Solid-Polymer-Electrolyte Water Electrolyzer. Journal of Nuclear Science and Technology, 2005, 42, 636-642.	1.3	4
96	Behavior of Iminodiacetate Fiber in Column-mode Adsorption of Lead (II). Journal of Ion Exchange, 2003, 14, 77-80.	0.3	4
97	Sensitization of track etching in CR-39 by copolymerization with methacryloyl-L-alanine methyl ester. International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements, 1992, 20, 543-547.	0.5	3
98	Effects of CMC Molar Mass on Mechanical Properties of CMC-Acid Gel. Transactions of the Materials Research Society of Japan, 2009, 34, 391-394.	0.2	3
99	Recent R&D results on polymeric materials for a SPE-type high-level tritiated water electrolyzer system. Fusion Engineering and Design, 2010, 85, 1421-1425.	1.9	3
100	Preparation of Chelating Porous Membranes for the Recovery of Germanium and their Adsorption Characteristics.. Journal of Ion Exchange, 2002, 13, 10-14.	0.3	3
101	Effects of gamma-ray irradiation on cellulase secretion of Trichoderma reesei. Journal of Fermentation Technology, 1987, 65, 703-705.	0.5	2
102	Bifunctional Cation Exchange Fibers Having Phosphonic and Sulfonic Acid Groups. , 2005, , 49-62.		2
103	New Advanced Fabrication Technique for Millimeter-Wave Planar Components based on Fluororesin Substrates using Graft Polymerization. Japanese Journal of Applied Physics, 2008, 47, 4755.	1.5	2
104	Decolorization of Secondary Treated Water from Livestock Urine Waste. Transactions of the Materials Research Society of Japan, 2010, 35, 647-650.	0.2	2
105	Advanced Fabrication Method of Planar Components for Plasma Diagnostics. Plasma and Fusion Research, 2007, 2, S1042-S1042.	0.7	2
106	Preparation of Graft Adsorbent Having Amine Groups and Its Au(III) Adsorption Performance. Journal of Ion Exchange, 2007, 18, 232-235.	0.3	1
107	Development of Millimeter-Wave Planar Antennas Using Low-Loss Materials. Japanese Journal of Applied Physics, 2010, 49, 106506.	1.5	1
108	Radiation Processing of Polymers and Its Applications. , 2010, , 737-759.		1

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109	Environmental responsive poly(methacryloyldipeptide) hydrogels having the sequences of l-amino acyl-glycine ethyl esters as pendant groups. International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements, 1992, 39, 469-472.	0.0	0
110	Development of low-loss millimeter-wave antennas on fluorine substrate using electro-fine-forming fabrication. , 2006, , .		0
111	Investigation of removal of cadmium from mid-gut glands of scallop by ion exchange column. Nippon Suisan Gakkaishi, 2008, 74, 216-218.	0.1	0
112	Polyolefin fibers with chemically fixed active ester for the solid phase synthesis of an amide derivative. Reactive and Functional Polymers, 2009, 69, 9-13.	4.1	0
113	Investigations to Increase the Efficiency of Fluorine and Boron Removal from Groundwater Using Radiation-Induced Graft Polymerization Adsorbent. Transactions of the Atomic Energy Society of Japan, 2010, 9, 330-338.	0.3	0
114	Removal of Fluorine and Boron From Groundwater Using Radiation-Induced Graft Polymerization Adsorbent at Mizunami Underground Research Laboratory. , 2010, , .		0
115	R&D for graft adsorbents by radiation processing. Journal of Ion Exchange, 2012, 23, 51-58.	0.3	0