

Masaya Yamamoto

List of Publications by Citations

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113
papers

4,748
citations

39
h-index

67
g-index

120
ext. papers

5,062
ext. citations

5.3
avg, IF

5.27
L-index

#	Paper	IF	Citations
113	Controlled release of growth factors based on biodegradation of gelatin hydrogel. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2001 , 12, 77-88	3.5	322
112	Controlled release by biodegradable hydrogels enhances the ectopic bone formation of bone morphogenetic protein. <i>Biomaterials</i> , 2003 , 24, 4375-83	15.6	292
111	Osteogenic differentiation of mesenchymal stem cells in biodegradable sponges composed of gelatin and beta-tricalcium phosphate. <i>Biomaterials</i> , 2005 , 26, 3587-96	15.6	264
110	Enhanced osteoinduction by controlled release of bone morphogenetic protein-2 from biodegradable sponge composed of gelatin and beta-tricalcium phosphate. <i>Biomaterials</i> , 2005 , 26, 4856-65	15.6	223
109	Biodegradable gelatin microparticles as delivery systems for the controlled release of bone morphogenetic protein-2. <i>Acta Biomaterialia</i> , 2008 , 4, 1126-38	10.8	216
108	Bone regeneration by transforming growth factor beta1 released from a biodegradable hydrogel. <i>Journal of Controlled Release</i> , 2000 , 64, 133-42	11.7	170
107	Prevascularization with gelatin microspheres containing basic fibroblast growth factor enhances the benefits of cardiomyocyte transplantation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2002 , 124, 50-6	1.5	131
106	Continuous delivery of stromal cell-derived factor-1 from alginate scaffolds accelerates wound healing. <i>Cell Transplantation</i> , 2010 , 19, 399-408	4	124
105	In vitro and in vivo release of vascular endothelial growth factor from gelatin microparticles and biodegradable composite scaffolds. <i>Pharmaceutical Research</i> , 2008 , 25, 2370-8	4.5	120
104	Degree of biological apatite c-axis orientation rather than bone mineral density controls mechanical function in bone regenerated using recombinant bone morphogenetic protein-2. <i>Journal of Bone and Mineral Research</i> , 2013 , 28, 1170-9	6.3	118
103	Preparation of PEG-conjugated fullerene containing Gd ³⁺ ions for photodynamic therapy. <i>Journal of Controlled Release</i> , 2007 , 117, 104-10	11.7	118
102	Enhanced bone regeneration at a segmental bone defect by controlled release of bone morphogenetic protein-2 from a biodegradable hydrogel. <i>Tissue Engineering</i> , 2006 , 12, 1305-11		107
101	A novel approach to therapeutic angiogenesis for patients with critical limb ischemia by sustained release of basic fibroblast growth factor using biodegradable gelatin hydrogel: an initial report of the phase I-IIa study. <i>Circulation Journal</i> , 2007 , 71, 1181-6	2.9	105
100	Use of collagen sponge incorporating transforming growth factor-beta1 to promote bone repair in skull defects in rabbits. <i>Biomaterials</i> , 2002 , 23, 1003-10	15.6	100
99	Type I collagen can function as a reservoir of basic fibroblast growth factor. <i>Journal of Controlled Release</i> , 2004 , 99, 281-92	11.7	95
98	Enhanced ectopic bone formation using a combination of plasmid DNA impregnation into 3-D scaffold and bioreactor perfusion culture. <i>Biomaterials</i> , 2006 , 27, 1387-98	15.6	87
97	Toward surgical angiogenesis using slow-released basic fibroblast growth factor. <i>European Journal of Cardio-thoracic Surgery</i> , 2003 , 24, 105-11; discussion 112	3	73

96	Simultaneous application of basic fibroblast growth factor and hepatocyte growth factor to enhance the blood vessels formation. <i>Journal of Vascular Surgery</i> , 2005 , 41, 82-90	3.5	72
95	Angiogenesis induced by controlled release of neuropeptide substance P. <i>Biomaterials</i> , 2010 , 31, 8617-25	5.6	71
94	Topical insulin-like growth factor 1 treatment using gelatin hydrogels for glucocorticoid-resistant sudden sensorineural hearing loss: a prospective clinical trial. <i>BMC Medicine</i> , 2010 , 8, 76	11.4	70
93	Skull bone regeneration in nonhuman primates by controlled release of bone morphogenetic protein-2 from a biodegradable hydrogel. <i>Tissue Engineering</i> , 2007 , 13, 293-300		70
92	Efficient gene transfer by pullulan-spermine occurs through both clathrin- and raft/caveolae-dependent mechanisms. <i>Journal of Controlled Release</i> , 2006 , 116, 75-82	11.7	68
91	Bone regeneration at rabbit skull defects treated with transforming growth factor-beta1 incorporated into hydrogels with different levels of biodegradability. <i>Journal of Neurosurgery</i> , 2000 , 92, 315-25	3.2	63
90	Comparison of bone regeneration in a rabbit skull defect by recombinant human BMP-2 incorporated in biodegradable hydrogel and in solution. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1998 , 9, 1001-14	3.5	61
89	Ectopic bone formation induced by biodegradable hydrogels incorporating bone morphogenetic protein. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1998 , 9, 439-58	3.5	60
88	Expression profile of plasmid DNA by spermine derivatives of pullulan with different extents of spermine introduced. <i>Journal of Controlled Release</i> , 2007 , 118, 389-98	11.7	53
87	Mineralization, biodegradation, and drug release behavior of gelatin/apatite composite microspheres for bone regeneration. <i>Biomacromolecules</i> , 2010 , 11, 2653-9	6.9	52
86	Tissue engineering by modulated gene delivery. <i>Advanced Drug Delivery Reviews</i> , 2006 , 58, 535-54	18.5	47
85	Administration of control-released hepatocyte growth factor enhances the efficacy of skeletal myoblast transplantation in rat infarcted hearts by greatly increasing both quantity and quality of the graft. <i>Circulation</i> , 2005 , 112, 1129-34	16.7	47
84	Complete tissue coverage achieved by scaffold-based tissue engineering in the fetal sheep model of Myelomeningocele. <i>Biomaterials</i> , 2016 , 76, 133-43	15.6	46
83	Stromal-derived factor-1 delivered via hydrogel drug-delivery vehicle accelerates wound healing in vivo. <i>Wound Repair and Regeneration</i> , 2011 , 19, 420-5	3.6	46
82	Biomechanical evaluation of regenerating long bone by nanoindentation. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 969-76	4.5	43
81	Vascularization into a porous sponge by sustained release of basic fibroblast growth factor. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999 , 10, 957-68	3.5	43
80	Bone regeneration using a bone morphogenetic protein-2 saturated slow-release gelatin hydrogel sheet: evaluation in a canine orbital floor fracture model. <i>Annals of Plastic Surgery</i> , 2010 , 64, 496-502	1.7	42
79	Safety and efficacy of sustained release of basic fibroblast growth factor using gelatin hydrogel in patients with critical limb ischemia. <i>Heart and Vessels</i> , 2016 , 31, 713-21	2.1	41

78	Combination of BMP-2-releasing gelatin/βTCP sponges with autologous bone marrow for bone regeneration of X-ray-irradiated rabbit ulnar defects. <i>Biomaterials</i> , 2015 , 56, 18-25	15.6	41
77	Ultrastructure of the interface between cultured osteoblasts and surface-modified polymer substrates. <i>Journal of Biomedical Materials Research Part B</i> , 1997 , 37, 29-36		41
76	Promotion of fibrovascular tissue ingrowth into porous sponges by basic fibroblast growth factor. <i>Journal of Materials Science: Materials in Medicine</i> , 2000 , 11, 213-8	4.5	41
75	Engineering Multi-Cellular Spheroids for Tissue Engineering and Regenerative Medicine. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000608	10.1	39
74	Preparation of cationized polysaccharides as gene transfection carrier for bone marrow-derived mesenchymal stem cells. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010 , 21, 185-204	3.5	37
73	Blood clearance and biodistribution of polymer brush-afforded silica particles prepared by surface-initiated living radical polymerization. <i>Biomacromolecules</i> , 2012 , 13, 927-36	6.9	33
72	Tracheal cartilage regeneration by slow release of basic fibroblast growth factor from a gelatin sponge. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007 , 134, 170-5	1.5	33
71	Growth Factor Release from Gelatin Hydrogel for Tissue Engineering. <i>Journal of Bioactive and Compatible Polymers</i> , 1999 , 14, 474-489	2	33
70	BMP-2 release and dose-response studies in hydroxyapatite and beta-tricalcium phosphate. <i>Bio-Medical Materials and Engineering</i> , 2009 , 19, 141-6	1	31
69	Generation of stable co-cultures of vascular cells in a honeycomb alginate scaffold. <i>Tissue Engineering - Part A</i> , 2010 , 16, 299-308	3.9	30
68	Improved therapeutic efficacy in cardiomyocyte transplantation for myocardial infarction with release system of basic fibroblast growth factor. <i>Artificial Organs</i> , 2003 , 27, 181-4	2.6	30
67	A Study of Magnetic Drug Delivery System Using Bulk High Temperature Superconducting Magnet. <i>IEEE Transactions on Applied Superconductivity</i> , 2008 , 18, 874-877	1.8	29
66	Liver targeting of plasmid DNA with a cationized pullulan for tumor suppression. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 2853-9	1.3	29
65	Basic fibroblast growth factor combined with biodegradable hydrogel promotes healing of facial nerve after compression injury: an experimental study. <i>Acta Oto-Laryngologica</i> , 2010 , 130, 173-8	1.6	28
64	Repairing of rabbit skull defect by dehydrothermally crosslinked collagen sponges incorporating transforming growth factor beta1. <i>Journal of Controlled Release</i> , 2003 , 88, 55-64	11.7	28
63	Role of Stress Distribution on Healing Process of Preferential Alignment of Biological Apatite in Long Bones. <i>Materials Science Forum</i> , 2006 , 512, 261-264	0.4	25
62	Carrier dependent cell differentiation of bone morphogenetic protein-2 induced osteogenesis and chondrogenesis during the early implantation stage in rats. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 71, 181-9		24
61	Exploratory clinical trial of combination wound therapy with a gelatin sheet and platelet-rich plasma in patients with chronic skin ulcers: study protocol. <i>BMJ Open</i> , 2015 , 5, e007733	3	23

60	Blood permeability of a novel ceramic scaffold for bone morphogenetic protein-2. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 81, 469-75	3.5	23
59	Orientation-regulated immobilization of Jagged1 on glass substrates for ex vivo proliferation of a bone marrow cell population containing hematopoietic stem cells. <i>Biomaterials</i> , 2011 , 32, 6920-8	15.6	22
58	Control-released hepatocyte growth factor prevents the progression of heart failure in stroke-prone spontaneously hypertensive rats. <i>Annals of Thoracic Surgery</i> , 2005 , 79, 1627-34	2.7	22
57	Expression profile of plasmid DNA obtained using spermine derivatives of pullulan with different molecular weights. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007 , 18, 883-99	3.5	21
56	Cartilage regeneration using slow release of bone morphogenetic protein-2 from a gelatin sponge to treat experimental canine tracheomalacia: a preliminary report. <i>ASAIO Journal</i> , 2003 , 49, 63-9	3.6	21
55	Biodegradable hydrogels for bone regeneration through growth factor release. <i>Pure and Applied Chemistry</i> , 1998 , 70, 1277-1282	2.1	21
54	A therapeutic angiogenesis of sustained release of basic fibroblast growth factor using biodegradable gelatin hydrogel sheets in a canine chronic myocardial infarction model. <i>Heart and Vessels</i> , 2018 , 33, 1251-1257	2.1	21
53	Preparation of polymer-based multimodal imaging agent to visualize the process of bone regeneration. <i>Journal of Controlled Release</i> , 2012 , 157, 398-405	11.7	20
52	Regeneration of canine tracheal cartilage by slow release of basic fibroblast growth factor from gelatin sponge. <i>ASAIO Journal</i> , 2006 , 52, 86-91	3.6	20
51	Enhanced regeneration of critical bone defects using a biodegradable gelatin sponge and beta-tricalcium phosphate with bone morphogenetic protein-2. <i>Journal of Biomaterials Applications</i> , 2009 , 24, 327-42	2.9	19
50	Controlled release of matrix metalloproteinase-1 plasmid DNA prevents left ventricular remodeling in chronic myocardial infarction of rats. <i>Circulation Journal</i> , 2009 , 73, 2315-21	2.9	19
49	Osteogenic differentiation of bone-marrow-derived stem cells cultured with mixed gelatin and chitoooligosaccharide scaffolds. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011 , 22, 1083-98	3.5	17
48	Fabrication of hydrogels with elasticity changed by alkaline phosphatase for stem cell culture. <i>Acta Biomaterialia</i> , 2016 , 29, 215-227	10.8	16
47	Comparative physicochemical properties and cytotoxicity of polyphosphoester ionomers with bisphosphonates. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013 , 24, 882-95	3.5	15
46	Experimental study of bone morphogenetic proteins-2 slow release from an artificial trachea made of biodegradable materials: evaluation of stenting time. <i>ASAIO Journal</i> , 2003 , 49, 533-6	3.6	15
45	Design of magnetic gene complexes as effective and serum resistant gene delivery systems for mesenchymal stem cells. <i>International Journal of Pharmaceutics</i> , 2017 , 520, 1-13	6.5	14
44	Fast and effective mitochondrial delivery of Rhodamine-B-polysulfobetaine-PEG copolymers. <i>Scientific Reports</i> , 2018 , 8, 1128	4.9	13
43	Role of Osteoclast in Preferential Alignment of Biological Apatite (BAP) in Long Bones. <i>Materials Science Forum</i> , 2006 , 512, 265-268	0.4	13

42	EFFECTS OF APPLIED STRESS ON PREFERENTIAL ALIGNMENT OF BIOLOGICAL APATITE IN RABBIT FORELIMB BONES. <i>Phosphorus Research Bulletin</i> , 2004 , 17, 77-82	0.3	13
41	Generation of Type I Collagen Gradient in Polyacrylamide Hydrogels by a Simple Diffusion-Controlled Hydrolysis of Amide Groups. <i>Materials</i> , 2010 , 3, 2393-2404	3.5	12
40	Widespread and early tracheal cartilage regeneration by synchronous slow release of b-FGF and BMP-2. <i>ASAIO Journal</i> , 2009 , 55, 266-70	3.6	12
39	Collagen immobilization onto the surface of artificial hair for improving the tissue adhesion. <i>Journal of Adhesion Science and Technology</i> , 2000 , 14, 635-650	2	12
38	Effect of the structure of bone morphogenetic protein carriers on ectopic bone regeneration. <i>Tissue Engineering</i> , 1996 , 2, 315-26		12
37	Tracheal cartilage regeneration and new bone formation by slow release of bone morphogenetic protein (BMP)-2. <i>ASAIO Journal</i> , 2008 , 54, 104-8	3.6	10
36	The Design of Sulfo betaine Polymers with Thermoresponsiveness under Physiological Salt Conditions. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 1900429	2.6	9
35	Effect of amine type on the expression of plasmid DNA by cationized dextran. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010 , 21, 225-36	3.5	9
34	Scaffold biomaterials for nano-pathophysiology. <i>Advanced Drug Delivery Reviews</i> , 2014 , 74, 104-14	18.5	8
33	Crystallographic Approach to Regenerated and Pathological Hard Tissues. <i>Materials Science Forum</i> , 2006 , 512, 255-260	0.4	8
32	BMP-2 Dose-Response and Release Studies in Functionally Graded HAp. <i>Key Engineering Materials</i> , 2006 , 309-311, 965-968	0.4	8
31	Effect of hydrogel elasticity and ephrinB2-immobilized manner on Runx2 expression of human mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2017 , 58, 312-322	10.8	7
30	3D Model of Vascular Medial Thickening in Pulmonary Arterial Hypertension. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 482	5.8	6
29	Intraleural administration of gelatin-embedded, sustained-release basic fibroblast growth factor for the regeneration of emphysematous lungs in rats. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014 , 147, 1644-9	1.5	6
28	Magnetic nanoparticles-based DDS therapeutic system of next generation for deep body site. <i>Drug Delivery System</i> , 2007 , 22, 558-568	0	6
27	Preparation of cell aggregates incorporating gelatin hydrogel microspheres of sugar-responsive water solubilization. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020 , 14, 1050-1062	4.4	4
26	Change in Material and Structural Parameters of Bone Mechanical Function during Long-Bone Regeneration. <i>Materials Science Forum</i> , 2007 , 561-565, 1451-1454	0.4	4
25	Easy-to-Use Preservation and Application of Platelet-Rich Plasma in Combination Wound Therapy With a Gelatin Sheet and Freeze-Dried Platelet-Rich Plasma: A Case Report. <i>Eplasty</i> , 2016 , 16, e22	0.3	4

24	Internalization Mechanisms of Pyridinium Sulfobetaine Polymers Evaluated by Induced Protic Perturbations on Cell Surfaces. <i>Langmuir</i> , 2020 , 36, 9977-9984	4	4
23	Design of an LCST-UCST-Like Thermoresponsive Zwitterionic Copolymer. <i>Langmuir</i> , 2021 , 37, 3261-3269	4	4
22	Addition of glycerol enhances the flexibility of gelatin hydrogel sheets; application for in utero tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 921-931	3.5	4
21	Controlled release of matrix metalloproteinase 1 with or without skeletal myoblasts transplantation improves cardiac function of rat hearts with chronic myocardial infarction. <i>Tissue Engineering - Part A</i> , 2009 , 15, 2699-706	3.9	3
20	Design of an osteoinductive biodegradable cell scaffold based on controlled release technology of bone morphogenetic protein. <i>Israel Journal of Chemistry</i> , 2005 , 45, 465-475	3.4	3
19	The Effect of Partial Dissolution-Precipitation Treatment on Calcium Phosphate Ceramics in the Release of BMP-2 and Osteoinduction. <i>Journal of Hard Tissue Biology</i> , 2012 , 21, 459-468	0.4	3
18	Safety and durability of the biodegradable felt in aortic surgery: a propensity score-matched study. <i>European Journal of Cardio-thoracic Surgery</i> , 2018 , 54, 361-368	3	2
17	Control of Mitochondrial Localization Using Thermoresponsive Sulfobetaine Polymer. <i>Macromolecular Bioscience</i> , 2020 , 20, e2000205	5.5	2
16	Comparison of HAp and β -TCP in BMP-2 Dose-Response and Release Study. <i>Key Engineering Materials</i> , 2007 , 361-363, 1033-1036	0.4	1
15	Basic Fibroblast Growth Factor and Angiogenesis 2005 , 145-156		1
14	Bone Induction by Controlled Release of BMP-2 from a Biodegradable Hydrogel in Various Animal Species - From Mouse to Non-Human Primate -. <i>Key Engineering Materials</i> , 2005 , 288-289, 253-256	0.4	1
13	Effective Permeation of Anticancer Drugs into Glioblastoma Spheroids via Conjugation with a Sulfobetaine Copolymer. <i>Biomacromolecules</i> , 2020 , 21, 5044-5052	6.9	1
12	Controlled release of growth factors from biodegradable hydrogels based on polyion complexation.. <i>Drug Delivery System</i> , 1999 , 14, 506-510	0	1
11	Enhanced Osteoinduction by Biodegradable Gelatin-BETA-tricalcium Phosphate Sponge Capable for Bone Morphogenetic Protein Release. <i>Journal of Hard Tissue Biology</i> , 2005 , 14, 286-287	0.4	1
10	Biologic anastomosis: the first case of biologic coronary bypass surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2009 , 138, 775-7	1.5	0
9	Effect of Isoelectric Point on Enzyme Immobilization Property of Magnetic Apatite Microcapsules Encapsulating Maghemite. <i>Key Engineering Materials</i> , 2017 , 758, 178-183	0.4	
8	Development of a spheroid-permeable polymer. <i>Drug Delivery System</i> , 2021 , 36, 248-255	0	
7	Recent Challenges in Biomaterials-Based Regenerative Medicine. <i>Membrane</i> , 2020 , 45, 250-254	0	

- 6 Induction therapy of tissue regeneration based on tissue engineering Induction therapy of tissue regeneration for chronic fibrotic diseases. *Drug Delivery System*, **2005**, 20, 110-117 ○
- 5 Enhanced Bone Regeneration at a Segmental Bone Defect by Controlled Release of Bone Morphogenetic Protein-2 from a Biodegradable Hydrogel. *Tissue Engineering*, **2006**, 060511071910001
- 4 Skull Bone Regeneration in Nonhuman Primates by Controlled Release of Bone Morphogenetic Protein-2 from a Biodegradable Hydrogel. *Tissue Engineering*, **2007**, 070108073527001
- 3 Bone regeneration at rabbit skull defects by gelatin hydrogels incorporating transforming growth factor- β 1. *Drug Delivery System*, **1999**, 14, 43-50 ○
- 2 Protocol of Osteoblastic Differentiation of BMSC in Biodegradable Scaffolds Composed of Gelatin and β -Tricalcium Phosphate. *Manuals in Biomedical Research*, **2014**, 83-90
- 1 Studies on Sandwich Culture by Making Use of Biofunctional Hydrogels as a Three-Dimensional Culture Environment. *Kobunshi Ronbunshu*, **2018**, 75, 23-31 ○