

# Akiko Yamamoto

## List of Publications by Year in descending order

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74  
papers

2,721  
citations

236833

25  
h-index

197736

49  
g-index

75  
all docs

75  
docs citations

75  
times ranked

3084  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Characterization of a Ti–Zr-Based Alloy with Ultralow Young's Modulus and Excellent Biocompatibility. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	3
2	Development of a Model System for Gas Cavity Formation Behavior of Magnesium Alloy Implantation. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2437-2444.	2.6	4
3	Osteogenic response under the periosteum by magnesium implantation in rat tibia. <i>Dental Materials Journal</i> , 2021, 40, 498-507.	0.8	1
4	Effect of ECAP Die Angle on Mechanical Properties and Biocompatibility of SS316L. <i>Metals</i> , 2021, 11, 1513.	1.0	5
5	Quantitative Evaluation of Nucleic Acid Degradability of Copper Alloy Surfaces and Its Correlation to Antibacterial Activity. <i>Antibiotics</i> , 2021, 10, 1439.	1.5	0
6	Evaluation of Biodegradability of Bioabsorbable Metallic Materials Based on the Understanding of Material-tissue Interaction. <i>Materia Japan</i> , 2020, 59, 600-605.	0.1	1
7	Mechanical and biocorrosive properties of magnesium-aluminum alloy scaffold for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 98, 213-224.	1.5	30
8	Corrosion behavior, in vitro and in vivo biocompatibility of a newly developed Ti–16Nb–3Mo–1Sn superelastic alloy. <i>Materials Science and Engineering C</i> , 2019, 104, 109906.	3.8	6
9	&lt;i>In vitro&/i> and &lt;i>in vivo&/i> analysis of the biodegradable behavior of a magnesium alloy for biomedical applications. <i>Dental Materials Journal</i> , 2019, 38, 11-21.	0.8	16
10	Acoustic emission analysis of the compressive deformation of iron foams and their biocompatibility study. <i>Materials Science and Engineering C</i> , 2019, 97, 367-376.	3.8	10
11	Biological behavior of titanium processed by severe plastic deformation. <i>Applied Surface Science</i> , 2019, 472, 54-63.	3.1	23
12	Initial organ distribution and biological safety of Mg <sup>2+</sup> released from a Mg alloy implant. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 035006.	1.7	5
13	Cytocompatibility evaluation of nano-sintered Ti-15Zr-4Nb-2Ta-0.2Pd alloy produced by spark plasma sintering technique. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 430, 012036.	0.3	5
14	The Influence of Selective Laser Melting (SLM) Process Parameters on In-Vitro Cell Response. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1619.	1.8	45
15	Influence of SaOS-2 cells on corrosion behavior of cast Mg-2.0Zn-0.98Mn magnesium alloy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 150, 288-296.	2.5	12
16	Transition and Provisional Trends in Implant Materials and Their Biocompatibility. <i>Materia Japan</i> , 2017, 56, 225-228.	0.1	0
17	&lt;i>In vivo&/i> corrosion behaviour of magnesium alloy in association with surrounding tissue response in rats. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 025001.	1.7	26
18	Influence of biodegradable polymer coatings on corrosion, cytocompatibility and cell functionality of Mg-2.0Zn-0.98Mn magnesium alloy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 144, 284-292.	2.5	39

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19	In vitro degradation of ZM21 magnesium alloy in simulated body fluids. <i>Materials Science and Engineering C</i> , 2016, 65, 59-69.	3.8	39
20	A titanium surface with nano-ordered spikes and pores enhances human dermal fibroblastic extracellular matrix production and integration of collagen fibers. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 015010.	1.7	18
21	Novel Ti-base superelastic alloys with large recovery strain and excellent biocompatibility. <i>Acta Biomaterialia</i> , 2015, 17, 56-67.	4.1	123
22	Stents: Functions, Characteristics, and Materials. <i>Springer Series in Biomaterials Science and Engineering</i> , 2015, , 233-250.	0.7	1
23	Poly(L-lactic acid)/vaterite composite coatings on metallic magnesium. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 2639-2647.	1.7	7
24	Effect of high-pressure torsion deformation on surface properties and biocompatibility of Ti-50.9%mol.%Ni alloys. <i>Biointerphases</i> , 2014, 9, 029007.	0.6	7
25	Tribological properties of biocompatible Ti-10W and Ti-7.5Ti-7.5W. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 30, 214-222.	1.5	13
26	Surface characterization of TiNi deformed by high-pressure torsion. <i>Applied Surface Science</i> , 2014, 289, 338-344.	3.1	17
27	Cytocompatibility evaluation and surface characterization of TiNi deformed by high-pressure torsion. <i>Materials Science and Engineering C</i> , 2014, 43, 411-417.	3.8	15
28	Cytocompatibility of Mg Alloys and the Effect of Cells on their Degradation in Biological Environment. , 2014, , 381-385.		0
29	Improvement of Cytocompatibility of Magnesium Alloy ZM21 by Surface Modification. , 2014, , 375-380.		0
30	J0320301 Titanium Foam Coating for Orthopedic Implants. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2014, 2014, _J0320301-_J0320301-.	0.0	0
31	Cytocompatibility and mechanical properties of novel porous 316L stainless steel. <i>Materials Science and Engineering C</i> , 2013, 33, 2736-2743.	3.8	35
32	Cytocompatibility of Siloxane-Containing Vaterite/Poly(L-lactic acid) Composite Coatings on Metallic Magnesium. <i>Materials</i> , 2013, 6, 5857-5869.	1.3	5
33	Surface characterization and cytocompatibility evaluation of silanized magnesium alloy AZ91 for biomedical applications. <i>Science and Technology of Advanced Materials</i> , 2012, 13, 064214.	2.8	12
34	Cell Proliferation, Corrosion Resistance and Mechanical Properties of Novel Titanium Foam with Sheet Shape. <i>Materials Transactions</i> , 2012, 53, 724-732.	0.4	11
35	In vitro degradation of biodegradable polymer-coated magnesium under cell culture condition. <i>Applied Surface Science</i> , 2012, 258, 6353-6358.	3.1	65
36	Characteristics and cytocompatibility of biodegradable polymer film on magnesium by spin coating. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 93, 67-74.	2.5	203

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37	Optically Patternable Polymer Films as Model Interfaces to Study Cellular Behaviour on Topographically Structured Materials. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011, 22, 577-588.	1.9	1
38	ç”Yäl½“â†...â^†èššæ€šææ–™ãä–ã†ã@ãfžã,°ãfã,ã,†ãfãé†ã@ãCE»ç™,ãžœç””. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society</i>		
39	Osteoblast adhesion to functionally graded hydroxyapatite coatings doped with silver. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 97A, 490-497.	2.1	26
40	Collagen immobilization on 316L stainless steel surface with cathodic deposition of calcium phosphate. <i>Applied Surface Science</i> , 2011, 257, 5037-5045.	3.1	24
41	Selective cell affinity of biomimetic micro-nano-hybrid structured TiO2 overcomes the biological dilemma of osteoblasts. <i>Dental Materials</i> , 2010, 26, 275-287.	1.6	54
42	Control of degradation rate of bioabsorbable magnesium by anodization and steam treatment. <i>Materials Science and Engineering C</i> , 2010, 30, 1085-1093.	3.8	39
43	The enhanced characteristics of osteoblast adhesion to photofunctionalized nanoscale TiO2 layers on biomaterials surfaces. <i>Biomaterials</i> , 2010, 31, 3827-3839.	5.7	102
44	Medical application of magnesium and its alloys as degradable biomaterials. , 2010, , 318-320.		4
45	Effect of inorganic salts, amino acids and proteins on the degradation of pure magnesium in vitro. <i>Materials Science and Engineering C</i> , 2009, 29, 1559-1568.	3.8	314
46	High corrosion resistance of magnesium coated with hydroxyapatite directly synthesized in an aqueous solution. <i>Electrochimica Acta</i> , 2009, 54, 7085-7093.	2.6	176
47	A micro-fluidic study of whole blood behaviour on PMMA topographical nanostructures. <i>Journal of Nanobiotechnology</i> , 2008, 6, 3.	4.2	35
48	Precipitation control of calcium phosphate on pure magnesium by anodization. <i>Corrosion Science</i> , 2008, 50, 2906-2913.	3.0	95
49	Influence of pH and flow on the polarisation behaviour of pure magnesium in borate buffer solutions. <i>Corrosion Science</i> , 2008, 50, 3561-3568.	3.0	69
50	Polarization Behavior of Pure Magnesium under a Controlled Flow in a NaCl Solution. <i>Materials Transactions</i> , 2008, 49, 1456-1461.	0.4	21
51	Fabrication and Mechanical Properties of Composite Structure by Warm Spraying of Zr-Base Metallic Glass. <i>Materials Transactions</i> , 2008, 49, 317-323.	0.4	14
52	Fatigue Behaviors and Microstructures in an Extruded Mg-Al-Zn Alloy. <i>Materials Transactions</i> , 2008, 49, 681-684.	0.4	21
53	ãfžã,°ãfã,ã,†ãfãé†ã@ãCE»ç™,ãžœç””. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2008, 58, 570-576.	0.1	21
54	Morphological Change of Fibroblast Cells on Titanium and Platinum Cultured at Anodic and Cathodic Potentials. <i>Zairyo To Kankyo/ Corrosion Engineering</i> , 2008, 57, 400-408.	0.0	5

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55	Cytocompatibility Evaluation of Ti-Ni and Ti-Mo-Al System Shape Memory Alloys. Materials Transactions, 2007, 48, 361-366.	0.4	12
56	Short term evaluation of material blood compatibility using a microchannel array. Journal of Materials Science: Materials in Medicine, 2007, 18, 1175-1184.	1.7	6
57	The Effect of Metal Materials on Heat Shock Protein 70Bâ€™™ Gene Expression. Open Biotechnology Journal, 2007, 1, 14-17.	0.6	4
58	A Micro-Fluidic Technique for the Evaluation of the Blood Compatibility of Nanostructured Polymer Surfaces. , 2006, , .		0
59	Blood interaction with nano-topography. , 2006, , .		4
60	Friction-Wear Properties of Nickel-Free Co&ndash;Cr&ndash;Mo Alloy in a Simulated Body Fluid. Materials Transactions, 2005, 46, 1588-1592.	0.4	26
61	Mechanical properties and microstructures of new Tiâ€™“Feâ€™“Ta and Tiâ€™“Feâ€™“Taâ€™“Zr system alloys. Materials Science and Engineering C, 2005, 25, 312-320.	3.8	66
62	New Method for Evaluating Material Blood Compatibility Using Microchannel Array. Key Engineering Materials, 2005, 288-289, 495-498.	0.4	0
63	238 Effect of Direction of Stress Fiber on Cell Adhesive Shear Force and Cell Detachment Energy. Proceedings of the JSME Bioengineering Conference and Seminar, 2005, 2004.17, 291-292.	0.0	0
64	Cytotoxicity evaluation of ceramic particles of different sizes and shapes. Journal of Biomedical Materials Research Part B, 2004, 68A, 244-256.	3.0	163
65	Cytocompatibility evaluation of Ni-free stainless steel manufactured by nitrogen adsorption treatment. Materials Science and Engineering C, 2004, 24, 737-743.	3.8	77
66	Effects of Biological Factors on the Repassivation Current of Titanium. Materials Transactions, 2004, 45, 1635-1639.	0.4	18
67	Effect of Formation of Adhesion Plaque and Cytoskeleton on Cell Adhesive Shear Force and Cell Detachment Energy to Glass Surface. The Proceedings of the JSME Annual Meeting, 2003, 2003.5, 1-2.	0.0	0
68	XPS Characterization of the Surface Oxide Film of 316L Stainless Steel Samples that were Located in Quasi-Biological Environments. Materials Transactions, 2002, 43, 3088-3092.	0.4	108
69	Mutagenicity evaluation of forty-one metal salts by theumu test. Journal of Biomedical Materials Research Part B, 2002, 59, 176-183.	3.0	46
70	Metal ion release from titanium with active oxygen species generated by rat macrophages in vitro. , 2000, 49, 238-243.		113
71	Quantitative evaluation of cell attachment to glass, polystyrene, and fibronectin- or collagen-coated polystyrene by measurement of cell adhesive shear force and cell detachment energy. , 2000, 50, 114-124.		87
72	Generic tendency of metal salt cytotoxicity for six cell lines. , 1999, 47, 396-403.		35

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73	A new technique for direct measurement of the shear force necessary to detach a cell from a material. <i>Biomaterials</i> , 1998, 19, 871-879.	5.7	96
74	Fretting Fatigue Properties of Ti-6Al-4V Alloy in Pseudo-Body Fluid and Evaluation of Biocompatibility by Cell Culture Method. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1995, 59, 463-470.	0.2	32