

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	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
2	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
3	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
4	Cytotoxicity evaluation of ceramic particles of different sizes and shapes. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 68A, 244-256.	3.0	163
5	Novel Ti-base superelastic alloys with large recovery strain and excellent biocompatibility. <i>Acta Biomaterialia</i> , 2015, 17, 56-67.	4.1	123
6	Metal ion release from titanium with active oxygen species generated by rat macrophages in vitro. , 2000, 49, 238-243.		113
7	XPS Characterization of the Surface Oxide Film of 316L Stainless Steel Samples that were Located in Quasi-Biological Environments. <i>Materials Transactions</i> , 2002, 43, 3088-3092.	0.4	108
8	The enhanced characteristics of osteoblast adhesion to photofunctionalized nanoscale TiO ₂ layers on biomaterials surfaces. <i>Biomaterials</i> , 2010, 31, 3827-3839.	5.7	102
9	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
10	Precipitation control of calcium phosphate on pure magnesium by anodization. <i>Corrosion Science</i> , 2008, 50, 2906-2913.	3.0	95
11	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
12	Cytocompatibility evaluation of Ni-free stainless steel manufactured by nitrogen adsorption treatment. <i>Materials Science and Engineering C</i> , 2004, 24, 737-743.	3.8	77
13	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
14	Mechanical properties and microstructures of new Ti-Fe-Ta and Ti-Fe-Ta-Zr system alloys. <i>Materials Science and Engineering C</i> , 2005, 25, 312-320.	3.8	66
15	In vitro degradation of biodegradable polymer-coated magnesium under cell culture condition. <i>Applied Surface Science</i> , 2012, 258, 6353-6358.	3.1	65
16	Selective cell affinity of biomimetic micro-nano-hybrid structured TiO ₂ overcomes the biological dilemma of osteoblasts. <i>Dental Materials</i> , 2010, 26, 275-287.	1.6	54
17	Mutagenicity evaluation of forty-one metal salts by theumu test. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 59, 176-183.	3.0	46
18	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

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19	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
20	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
21	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
22	Generic tendency of metal salt cytotoxicity for six cell lines. , 1999, 47, 396-403.		35
23	A micro-fluidic study of whole blood behaviour on PMMA topographical nanostructures. <i>Journal of Nanobiotechnology</i> , 2008, 6, 3.	4.2	35
24	Cytocompatibility and mechanical properties of novel porous 316L stainless steel. <i>Materials Science and Engineering C</i> , 2013, 33, 2736-2743.	3.8	35
25	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
26	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
27	Friction-Wear Properties of Nickel-Free Co–Cr–Mo Alloy in a Simulated Body Fluid. <i>Materials Transactions</i> , 2005, 46, 1588-1592.	0.4	26
28	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
29	<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
30	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
31	Biological behavior of titanium processed by severe plastic deformation. <i>Applied Surface Science</i> , 2019, 472, 54-63.	3.1	23
32	Polarization Behavior of Pure Magnesium under a Controlled Flow in a NaCl Solution. <i>Materials Transactions</i> , 2008, 49, 1456-1461.	0.4	21
33	Fatigue Behaviors and Microstructures in an Extruded Mg-Al-Zn Alloy. <i>Materials Transactions</i> , 2008, 49, 681-684.	0.4	21
34	ãfžã, °ãfã, ã, ãfãé†ã@ãE»ç™,ã¿œç”": <i>Keikinzo</i> // <i>Journal of Japan Institute of Light Metals</i> , 2008, 58, 570-576.	0.1	21
35	Effects of Biological Factors on the Repassivation Current of Titanium. <i>Materials Transactions</i> , 2004, 45, 1635-1639.	0.4	18
36	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

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37	Surface characterization of TiNi deformed by high-pressure torsion. <i>Applied Surface Science</i> , 2014, 289, 338-344.	3.1	17
38	<i>In vitro</i> and <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
39	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
40	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
41	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
42	Cytocompatibility Evaluation of Ti-Ni and Ti-Mo-Al System Shape Memory Alloys. <i>Materials Transactions</i> , 2007, 48, 361-366.	0.4	12
43	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
44	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
45	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
46	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
47	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
48	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
49	Short term evaluation of material blood compatibility using a microchannel array. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 1175-1184.	1.7	6
50	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
51	Cytocompatibility of Siloxane-Containing Vaterite/Poly(l-lactic acid) Composite Coatings on Metallic Magnesium. <i>Materials</i> , 2013, 6, 5857-5869.	1.3	5
52	Initial organ distribution and biological safety of Mg ²⁺ released from a Mg alloy implant. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 035006.	1.7	5
53	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
54	Effect of ECAP Die Angle on Mechanical Properties and Biocompatibility of SS316L. <i>Metals</i> , 2021, 11, 1513.	1.0	5

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73	Transition and Provisional Trends in Implant Materials and Their Biocompatibility. <i>Materia Japan</i> , 2017, 56, 225-228.	0.1	0
74	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