

# Masataka Hakamada

## List of Publications by Year in descending order

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107  
papers

2,234  
citations

218592

26  
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243529

44  
g-index

107  
all docs

107  
docs citations

107  
times ranked

2152  
citing authors

#	ARTICLE	IF	CITATIONS
1	Old and new nanomaterials: nanoporous metals. Keikinzoku/Journal of Japan Institute of Light Metals, 2022, 72, 58-65.	0.1	0
2	A new mechanism for reduced cell adhesion: Adsorption dynamics of collagen on a nanoporous gold surface. Materials Science and Engineering C, 2021, 119, 111461.	3.8	3
3	Heterogeneous role of integrins in fibroblast response to small cyclic mechanical stimulus generated by a nanoporous gold actuator. Acta Biomaterialia, 2021, 121, 418-430.	4.1	4
4	Dissimilar joining of alumina to aluminum at room temperature without applying a loading by two-step deposition. Materials Letters, 2021, 286, 129245.	1.3	1
5	New Dissimilar Joining Method of CFRP/A6061 Al by Cu Electrodeposition. Materials Transactions, 2021, 62, 688-690.	0.4	3
6	Effects of actuation of nanoporous gold on cell orientation in a fibroblast sheet. Journal of Materials Science: Materials in Medicine, 2021, 32, 103.	1.7	2
7	Antibacterial activity of ultrathin platinum islands on flat gold against Escherichia coli. Scientific Reports, 2020, 10, 9594.	1.6	2
8	Detachment of human mesenchymal stem cells from a gold substrate using electric current. Materialia, 2020, 13, 100866.	1.3	0
9	Effects of nanoporous Au on ATP synthase. MRS Communications, 2020, 10, 173-178.	0.8	1
10	Inactivation of HeLa cells on nanoporous gold. Materialia, 2019, 7, 100370.	1.3	3
11	Oxygen reduction on bimodal nanoporous palladium-copper catalyst synthesized using sacrificial nanoporous copper. Journal of Materials Research, 2019, 34, 2086-2094.	1.2	3
12	Electronic origin of antimicrobial activity owing to surface effect. Scientific Reports, 2019, 9, 1091.	1.6	6
13	Detachment of Mesenchymal Stem Cells and Their Cell Sheets Using pH-Responsive CaCO <sub>3</sub> Particles. Materials Transactions, 2019, 60, 2456-2463.	0.4	4
14	Bimodal nanoporous platinum on sacrificial nanoporous copper for catalysis of the oxygen-reduction reaction. MRS Communications, 2019, 9, 292-297.	0.8	5
15	Adsorption of RGD Tripeptide on Au (111) Surface. Materials Transactions, 2019, 60, 1711-1715.	0.4	2
16	Antimicrobial mechanisms due to hyperpolarisation induced by nanoporous Au. Scientific Reports, 2018, 8, 3870.	1.6	26
17	Nano-anchor effect by anodic oxidation of aluminum sheets in joining by electrodeposition. Procedia Manufacturing, 2018, 15, 1416-1421.	1.9	3
18	Sterilization by a Pulsed Electric Field with Dendritic Gold Electrodes. Materials Transactions, 2018, 59, 1210-1213.	0.4	1

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19	Joining of Anodized and Stacked Aluminum Sheets by Copper Electrodeposition: Nano-Anchor Effect. <i>Materials Transactions</i> , 2018, 59, 324-326.	0.4	7
20	Antibacterial activity of nanoporous gold against <i>Escherichia coli</i> and <i>Staphylococcus epidermidis</i> . <i>Journal of Materials Research</i> , 2017, 32, 1787-1795.	1.2	15
21	Energy jump during bond breaking. <i>Physical Review B</i> , 2017, 96, .	1.1	2
22	Atomic bond-breaking behaviour during grain boundary fracture in a C-segregated Fe grain boundary. <i>Philosophical Magazine Letters</i> , 2017, 97, 311-319.	0.5	6
23	Molecular dynamics study of laccase immobilized on self-assembled monolayer-modified Au. <i>Journal of Materials Science</i> , 2017, 52, 12848-12853.	1.7	7
24	Atomistic study of inelastic deformation in aluminium grain boundary fractures. <i>Philosophical Magazine Letters</i> , 2017, 97, 476-485.	0.5	2
25	Electrodes from carbon nanotubes/NiO nanocomposites synthesized in modified Watts bath for supercapacitors. <i>Journal of Power Sources</i> , 2016, 325, 670-674.	4.0	39
26	Water-adsorption effect on electrical resistivity of nanoporous gold. <i>Scripta Materialia</i> , 2016, 123, 30-33.	2.6	14
27	Mechanical characterization of nanoporous Au modified with self-assembled monolayers. <i>Applied Physics Letters</i> , 2016, 109, 261905.	1.5	5
28	Electrical resistivity of nanoporous gold modified with thiol self-assembled monolayers. <i>Applied Surface Science</i> , 2016, 387, 1088-1092.	3.1	14
29	First-principles Study of Hydrogen-induced Embrittlement in Fe Grain Boundary with Cr Segregation. <i>ISIJ International</i> , 2015, 55, 1131-1134.	0.6	15
30	Anomalous mechanical characteristics of Au/Cu nanocomposite processed by Cu electroplating. <i>Philosophical Magazine</i> , 2015, 95, 1499-1510.	0.7	5
31	Visible-light photocatalysis of ZnO deposited on nanoporous Au. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 1061-1066.	1.1	4
32	Fabrication of carbon nanotube/NiOx(OH)y nanocomposite by pulsed electrodeposition for supercapacitor applications. <i>Journal of Power Sources</i> , 2014, 245, 324-330.	4.0	43
33	Nanoporous Nickel Fabricated by Dealloying of Rolled Ni-Mn Sheet. <i>Procedia Engineering</i> , 2014, 81, 2159-2164.	1.2	12
34	Stabilization and Decomposition of Organic Matters by Nano-porous Metals. , 2014, 4, 335-340.		1
35	Fabrication and Catalytic Decoloration Capacity of Nanodendritic Metals. <i>Materials Transactions</i> , 2014, 55, 534-538.	0.4	2
36	OS0116 Relationship between grain boundary energy and free volume in magnesium : first-principles study. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2014, 2014, _OS0116-1_-_OS0116-3_.	0.0	0

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37	Synthesis of carbon nanotube/Ni nanocomposite film by electrophoresis and electroless deposition without Pd pretreatment. <i>Thin Solid Films</i> , 2013, 531, 99-102.	0.8	3
38	Fabrication, Microstructure, and Properties of Nanoporous Pd, Ni, and Their Alloys by Dealloying. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2013, 38, 262-285.	6.8	32
39	Softening due to disordered grain boundaries in nanocrystalline Co. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 345702.	0.7	2
40	Preparation of Nanoporous Ruthenium Catalyst and Its CO Oxidation Characteristics. <i>Materials Transactions</i> , 2012, 53, 524-530.	0.4	13
41	Fabrication by spacer method and evaluation of porous metals. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2012, 62, 313-321.	0.1	14
42	Enzyme electrodes stabilized by monolayer-modified nanoporous Au for biofuel cells. <i>Gold Bulletin</i> , 2012, 45, 9-15.	1.1	21
43	Catalytic decoloration of methyl orange solution by nanoporous metals. <i>Catalysis Science and Technology</i> , 2012, 2, 1814.	2.1	23
44	Enhanced thermal stability of laccase immobilized on monolayer-modified nanoporous Au. <i>Materials Letters</i> , 2012, 66, 4-6.	1.3	19
45	Electrochemical actuation of nanoporous Ni in NaOH solution. <i>Materials Letters</i> , 2012, 70, 132-134.	1.3	26
46	Magnetism of fcc/fcc, hcp/hcp twin and fcc/hcp twin-like boundaries in cobalt. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 106, 237-244.	1.1	9
47	Electrochemical stability of self-assembled monolayers on nanoporous Au. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12277.	1.3	24
48	Large-strain-induced magnetic properties of Co electrodeposited on nanoporous Au. <i>Journal of Applied Physics</i> , 2011, 109, 084315.	1.1	5
49	Formation of Nanoporous Structure on Pt Plate Surface by Alloying/Dealloying Technique. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2011, 75, 42-46.	0.2	3
50	Fabrication and Properties of Nanoporous Metals. <i>Materia Japan</i> , 2011, 50, 168-171.	0.1	0
51	Abnormal Hydrogen Absorption/Desorption Properties of Nanoporous Pt with Large Lattice Strains. <i>Materials Transactions</i> , 2011, 52, 806-809.	0.4	14
52	Improvement in strength and ductility of magnesium alloy parts by hot forging. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2010, 60, 88-92.	0.1	4
53	Carbothermic Reduction of Amorphous Silica Refined from Diatomaceous Earth. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2010, 41, 350-358.	1.0	9
54	Effect of initial microstructures on hot forging of Ca-containing cast Mg alloys. <i>Journal of Materials Science</i> , 2010, 45, 719-724.	1.7	16

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55	Nanoporous surface fabricated on metal sheets by alloying/dealloying technique. <i>Materials Letters</i> , 2010, 64, 2341-2343.	1.3	14
56	Deformation behavior of an ultrafine grained two phase Co-Cu alloy processed by electrodeposition. <i>Scripta Materialia</i> , 2010, 63, 132-135.	2.6	11
57	Dynamic recrystallization during hot compression of as-cast and homogenized noncombustible Mg-9Al-1Zn-1Ca (in mass%) alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 7143-7146.	2.6	21
58	Rotary-Die Equal Channel Angular Pressing Method for Light Metals. <i>Materials Science Forum</i> , 2010, 638-642, 1614-1617.	0.3	0
59	Surface effects on saturation magnetization in nanoporous Ni. <i>Philosophical Magazine</i> , 2010, 90, 1915-1924.	0.7	12
60	Hydrogen Storage Properties of Nanoporous Palladium Fabricated by Dealloying. <i>Journal of Physical Chemistry C</i> , 2010, 114, 868-873.	1.5	94
61	Solid/electrolyte interface phenomena during anodic polarization of Pd <sub>0.2</sub> M <sub>0.8</sub> (M=Fe, Co, Ni) alloys in H <sub>2</sub> SO <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , 2010, 494, 309-314.	2.8	28
62	Saturation magnetization in supersaturated solid solution of Co-Cu alloy. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	8
63	Nanoporous Ni and Ni-Cu Fabricated by Dealloying. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1228, 60201.	0.1	0
64	Coercivity of nanoporous Ni produced by dealloying. <i>Applied Physics Letters</i> , 2009, 94, 153105.	1.5	31
65	Fabrication of nanoporous palladium by dealloying and its thermal coarsening. <i>Journal of Alloys and Compounds</i> , 2009, 479, 326-329.	2.8	105
66	Preparation of nanoporous Ni and Ni-Cu by dealloying of rolled Ni-Mn and Ni-Cu-Mn alloys. <i>Journal of Alloys and Compounds</i> , 2009, 485, 583-587.	2.8	108
67	Thermal coarsening of nanoporous gold: Melting or recrystallization. <i>Journal of Materials Research</i> , 2009, 24, 301-304.	1.2	52
68	Effects of Pore Characteristics Finely-Controlled by Spacer Method on Damping Capacity of Porous Aluminum. <i>Materials Transactions</i> , 2009, 50, 427-429.	0.4	11
69	Tension/Compression Anisotropy in Hot Forged Mg-Al-Ca-RE Alloy. <i>Materials Transactions</i> , 2009, 50, 1898-1901.	0.4	7
70	Ferromagnetic Properties of Co-Cu Alloy with Nanoscale Lamellar Structure. <i>Materials Transactions</i> , 2009, 50, 419-422.	0.4	10
71	Preparation of Nanoporous Palladium by Dealloying: Anodic Polarization Behaviors of Pd-M (M=Fe, Co,) <small>Tj ETQq1 1 0.784314 rgBT /Over</small>	0.4	58
72	Grain Refinement and Superplasticity Induced by Hot Compression of Continuously-Casted Mg-9Al-1Zn-1Ca and Mg-9Al-1Zn Alloys. <i>Materials Transactions</i> , 2009, 50, 711-718.	0.4	9

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73	Dynamic recrystallization behavior during compressive deformation in Mg-Al-Ca-RE alloy. Journal of Materials Science, 2008, 43, 2066-2068.	1.7	18
74	Mechanical anisotropy due to twinning in an extruded AZ31 Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 485, 311-317.	2.6	132
75	Microstructural evolution in nanoporous gold by thermal and acid treatments. Materials Letters, 2008, 62, 483-486.	1.3	41
76	Processing of three-dimensional metallic microchannels by spacer method. Materials Letters, 2008, 62, 1118-1121.	1.3	6
77	A superelastic nanocrystalline Cu-Sn alloy thin film processed by electroplating. Materials Letters, 2008, 62, 4473-4475.	1.3	4
78	Microfluidic flows in metallic microchannels fabricated by the spacer method. Journal of Micromechanics and Microengineering, 2008, 18, 075029.	1.5	17
79	Effects of Homogenization Annealing on Dynamic Recrystallization in Mg-Al-Ca-RE (Rare Earth) Alloy. Materials Transactions, 2008, 49, 1032-1037.	0.4	12
80	Tensile Properties of Forged Mg-Al-Zn-Ca Alloy. Materials Transactions, 2008, 49, 554-558.	0.4	17
81	ã,»ãf«æS«é€â^¶ã¼;ã«ã,ã,ãfãf¼ãf ©ã,¹é¶'ã±žã@ãŠ>ã- ç%°¹æ€Sã@ã'ã,Š. Materia Japan, 2008, 47, 182-185.	0.1	0
82	Effects of Vacancies on Deformation Behavior in Nanocrystalline Nickel. Materials Transactions, 2008, 49, 2315-2321.	0.4	11
83	Influence of Density on the Compressive Properties in Porous Copper Produced by Spacer Method. Materials Science Forum, 2007, 561-565, 1661-1664.	0.3	0
84	Compressive Properties of Porous Metals with Homogeneous Pore Characteristics. Key Engineering Materials, 2007, 340-341, 415-420.	0.4	0
85	Processing of Nanoporous Gold by Dealloying and its Morphological Control. Materials Science Forum, 2007, 561-565, 1657-1660.	0.3	2
86	Comparison of Mechanical Properties of Thin Copper Films Processed by Electrodeposition and Rolling. Materials Transactions, 2007, 48, 2336-2339.	0.4	3
87	Influence of Porosity and Pore Size on Electrical Resistivity of Porous Aluminum Produced by Spacer Method. Materials Transactions, 2007, 48, 32-36.	0.4	30
88	Density dependence of the compressive properties of porous copper over a wide density range. Acta Materialia, 2007, 55, 2291-2299.	3.8	83
89	Life cycle inventory study on magnesium alloy substitution in vehicles. Energy, 2007, 32, 1352-1360.	4.5	163
90	Relationship between hardness and grain size in electrodeposited copper films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 457, 120-126.	2.6	94

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91	Monotonic and cyclic compressive properties of porous aluminum fabricated by spacer method. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 459, 286-293.	2.6	38
92	Fabrication of copper microchannels by the spacer method. <i>Scripta Materialia</i> , 2007, 56, 781-783.	2.6	18
93	Mechanical strength of nanoporous gold fabricated by dealloying. <i>Scripta Materialia</i> , 2007, 56, 1003-1006.	2.6	135
94	Nanoporous Gold Prism Microassembly through a Self-Organizing Route. <i>Nano Letters</i> , 2006, 6, 882-885.	4.5	89
95	Influence of distribution of oxide contaminants on fatigue behavior in AZ31 Mg alloy recycled by solid-state processing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 424, 355-360.	2.6	21
96	High sound absorption of porous aluminum fabricated by spacer method. <i>Applied Physics Letters</i> , 2006, 88, 254106.	1.5	45
97	Fatigue behavior of AZ31 magnesium alloy produced by solid-state recycling. <i>Journal of Materials Science</i> , 2006, 41, 3229-3232.	1.7	15
98	Tensile ductility at room temperature of nanocrystalline Ni-W alloy. <i>Journal of Materials Science</i> , 2006, 41, 8372-8376.	1.7	12
99	Sound Absorption Behavior of Porous Al Produced by Spacer Method. <i>Advanced Materials Research</i> , 2006, 15-17, 422-427.	0.3	0
100	Porous Metals Produced by Spacer Method as Ecomaterials. <i>Advanced Materials Research</i> , 2006, 15-17, 416-421.	0.3	1
101	Fluid Conductivity of Porous Aluminum Fabricated by Powder-Metallurgical Spacer Method. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L575-L577.	0.8	4
102	Sound absorption characteristics of porous aluminum fabricated by spacer method. <i>Journal of Applied Physics</i> , 2006, 100, 114908.	1.1	32
103	Fabrication of Porous Aluminum by Spacer Method Consisting of Spark Plasma Sintering and Sodium Chloride Dissolution. <i>Materials Transactions</i> , 2005, 46, 2624-2628.	0.4	47
104	Compressive Deformation Behavior at Elevated Temperatures in a Closed-Cell Aluminum Foam. <i>Materials Transactions</i> , 2005, 46, 1677-1680.	0.4	29
105	Effect of Sintering Temperature on Compressive Properties of Porous Aluminum Produced by Spark Plasma Sintering. <i>Materials Transactions</i> , 2005, 46, 186-188.	0.4	29
106	Compressive properties at elevated temperatures of porous aluminum processed by the spacer method. <i>Journal of Materials Research</i> , 2005, 20, 3385-3390.	1.2	14
107	Grain Refinement of Mg-Al-Zn Alloy Bar during Hot Compression. <i>Materials Science Forum</i> , 0, 706-709, 1267-1272.	0.3	2