

Masataka Hakamada

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6263156/publications.pdf>

Version: 2024-02-01

107
papers

2,234
citations

218592

26
h-index

243529

44
g-index

107
all docs

107
docs citations

107
times ranked

2152
citing authors

#	ARTICLE	IF	CITATIONS
1	Life cycle inventory study on magnesium alloy substitution in vehicles. Energy, 2007, 32, 1352-1360.	4.5	163
2	Mechanical strength of nanoporous gold fabricated by dealloying. Scripta Materialia, 2007, 56, 1003-1006.	2.6	135
3	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
4	Preparation of nanoporous Ni and Ni-Cu by dealloying of rolled Ni-Mn and Ni-Cu-Mn alloys. Journal of Alloys and Compounds, 2009, 485, 583-587.	2.8	108
5	Fabrication of nanoporous palladium by dealloying and its thermal coarsening. Journal of Alloys and Compounds, 2009, 479, 326-329.	2.8	105
6	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
7	Hydrogen Storage Properties of Nanoporous Palladium Fabricated by Dealloying. Journal of Physical Chemistry C, 2010, 114, 868-873.	1.5	94
8	Nanoporous Gold Prism Microassembly through a Self-Organizing Route. Nano Letters, 2006, 6, 882-885.	4.5	89
9	Density dependence of the compressive properties of porous copper over a wide density range. Acta Materialia, 2007, 55, 2291-2299.	3.8	83
10	Thermal coarsening of nanoporous gold: Melting or recrystallization. Journal of Materials Research, 2009, 24, 301-304.	1.2	52
11	Preparation of Nanoporous Palladium by Dealloying: Anodic Polarization Behaviors of Pd-M (M=Fe, Co.) Tj ETQq1 1 0,784314 rgBT /Over 0.4 58	0.4	58
12	Fabrication of Porous Aluminum by Spacer Method Consisting of Spark Plasma Sintering and Sodium Chloride Dissolution. Materials Transactions, 2005, 46, 2624-2628.	0.4	47
13	High sound absorption of porous aluminum fabricated by spacer method. Applied Physics Letters, 2006, 88, 254106.	1.5	45
14	Fabrication of carbon nanotube/NiOx(OH)y nanocomposite by pulsed electrodeposition for supercapacitor applications. Journal of Power Sources, 2014, 245, 324-330.	4.0	43
15	Microstructural evolution in nanoporous gold by thermal and acid treatments. Materials Letters, 2008, 62, 483-486.	1.3	41
16	Electrodes from carbon nanotubes/NiO nanocomposites synthesized in modified Watts bath for supercapacitors. Journal of Power Sources, 2016, 325, 670-674.	4.0	39
17	Monotonic and cyclic compressive properties of porous aluminum fabricated by spacer method. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 459, 286-293.	2.6	38
18	Sound absorption characteristics of porous aluminum fabricated by spacer method. Journal of Applied Physics, 2006, 100, 114908.	1.1	32

#	ARTICLE	IF	CITATIONS
19	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
20	Coercivity of nanoporous Ni produced by dealloying. <i>Applied Physics Letters</i> , 2009, 94, 153105.	1.5	31
21	Influence of Porosity and Pore Size on Electrical Resistivity of Porous Aluminum Produced by Spacer Method. <i>Materials Transactions</i> , 2007, 48, 32-36.	0.4	30
22	Compressive Deformation Behavior at Elevated Temperatures in a Closed-Cell Aluminum Foam. <i>Materials Transactions</i> , 2005, 46, 1677-1680.	0.4	29
23	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
24	Solid/electrolyte interface phenomena during anodic polarization of Pd _{0.2} M _{0.8} (M=Fe, Co, Ni) alloys in H ₂ SO ₄ . <i>Journal of Alloys and Compounds</i> , 2010, 494, 309-314.	2.8	28
25	Electrochemical actuation of nanoporous Ni in NaOH solution. <i>Materials Letters</i> , 2012, 70, 132-134.	1.3	26
26	Antimicrobial mechanisms due to hyperpolarisation induced by nanoporous Au. <i>Scientific Reports</i> , 2018, 8, 3870.	1.6	26
27	Electrochemical stability of self-assembled monolayers on nanoporous Au. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12277.	1.3	24
28	Catalytic decoloration of methyl orange solution by nanoporous metals. <i>Catalysis Science and Technology</i> , 2012, 2, 1814.	2.1	23
29	Influence of distribution of oxide contaminants on fatigue behavior in AZ31 Mg alloy recycled by solid-state processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 424, 355-360.	2.6	21
30	Dynamic recrystallization during hot compression of as-cast and homogenized noncombustible Mg ₉₀ Al ₁ Zn ₁ Ca (in mass%) alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 7143-7146.	2.6	21
31	Enzyme electrodes stabilized by monolayer-modified nanoporous Au for biofuel cells. <i>Gold Bulletin</i> , 2012, 45, 9-15.	1.1	21
32	Enhanced thermal stability of laccase immobilized on monolayer-modified nanoporous Au. <i>Materials Letters</i> , 2012, 66, 4-6.	1.3	19
33	Fabrication of copper microchannels by the spacer method. <i>Scripta Materialia</i> , 2007, 56, 781-783.	2.6	18
34	Dynamic recrystallization behavior during compressive deformation in Mg ₉₀ Al ₁ Ca ₁ RE alloy. <i>Journal of Materials Science</i> , 2008, 43, 2066-2068.	1.7	18
35	Microfluidic flows in metallic microchannels fabricated by the spacer method. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 075029.	1.5	17
36	Tensile Properties of Forged Mg-Al-Zn-Ca Alloy. <i>Materials Transactions</i> , 2008, 49, 554-558.	0.4	17

#	ARTICLE	IF	CITATIONS
37	Effect of initial microstructures on hot forging of Ca-containing cast Mg alloys. Journal of Materials Science, 2010, 45, 719-724.	1.7	16
38	Fatigue behavior of AZ31 magnesium alloy produced by solid-state recycling. Journal of Materials Science, 2006, 41, 3229-3232.	1.7	15
39	First-principles Study of Hydrogen-induced Embrittlement in Fe Grain Boundary with Cr Segregation. ISIJ International, 2015, 55, 1131-1134.	0.6	15
40	Antibacterial activity of nanoporous gold against <i>Escherichia coli</i> and <i>Staphylococcus epidermidis</i> . Journal of Materials Research, 2017, 32, 1787-1795.	1.2	15
41	Compressive properties at elevated temperatures of porous aluminum processed by the spacer method. Journal of Materials Research, 2005, 20, 3385-3390.	1.2	14
42	Nanoporous surface fabricated on metal sheets by alloying/dealloying technique. Materials Letters, 2010, 64, 2341-2343.	1.3	14
43	Abnormal Hydrogen Absorption/Desorption Properties of Nanoporous Pt with Large Lattice Strains. Materials Transactions, 2011, 52, 806-809.	0.4	14
44	Fabrication by spacer method and evaluation of porous metals. Keikinzoku/Journal of Japan Institute of Light Metals, 2012, 62, 313-321.	0.1	14
45	Water-adsorption effect on electrical resistivity of nanoporous gold. Scripta Materialia, 2016, 123, 30-33.	2.6	14
46	Electrical resistivity of nanoporous gold modified with thiol self-assembled monolayers. Applied Surface Science, 2016, 387, 1088-1092.	3.1	14
47	Preparation of Nanoporous Ruthenium Catalyst and Its CO Oxidation Characteristics. Materials Transactions, 2012, 53, 524-530.	0.4	13
48	Tensile ductility at room temperature of nanocrystalline Ni-W alloy. Journal of Materials Science, 2006, 41, 8372-8376.	1.7	12
49	Effects of Homogenization Annealing on Dynamic Recrystallization in Mg-Al-Ca-RE (Rare Earth) Alloy. Materials Transactions, 2008, 49, 1032-1037.	0.4	12
50	Surface effects on saturation magnetization in nanoporous Ni. Philosophical Magazine, 2010, 90, 1915-1924.	0.7	12
51	Nanoporous Nickel Fabricated by Dealloying of Rolled Ni-Mn Sheet. Procedia Engineering, 2014, 81, 2159-2164.	1.2	12
52	Effects of Vacancies on Deformation Behavior in Nanocrystalline Nickel. Materials Transactions, 2008, 49, 2315-2321.	0.4	11
53	Effects of Pore Characteristics Finely-Controlled by Spacer Method on Damping Capacity of Porous Aluminum. Materials Transactions, 2009, 50, 427-429.	0.4	11
54	Deformation behavior of an ultrafine grained two phase Co-Cu alloy processed by electrodeposition. Scripta Materialia, 2010, 63, 132-135.	2.6	11

#	ARTICLE	IF	CITATIONS
55	Ferromagnetic Properties of Co-Cu Alloy with Nanoscale Lamellar Structure. <i>Materials Transactions</i> , 2009, 50, 419-422.	0.4	10
56	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
57	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
58	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
59	Saturation magnetization in supersaturated solid solution of Co-Cu alloy. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	8
60	Tension/Compression Anisotropy in Hot Forged Mg-Al-Ca-RE Alloy. <i>Materials Transactions</i> , 2009, 50, 1898-1901.	0.4	7
61	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
62	Joining of Anodized and Stacked Aluminum Sheets by Copper Electrodeposition: Nano-Anchor Effect. <i>Materials Transactions</i> , 2018, 59, 324-326.	0.4	7
63	Processing of three-dimensional metallic microchannels by spacer method. <i>Materials Letters</i> , 2008, 62, 1118-1121.	1.3	6
64	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
65	Electronic origin of antimicrobial activity owing to surface effect. <i>Scientific Reports</i> , 2019, 9, 1091.	1.6	6
66	Large-strain-induced magnetic properties of Co electrodeposited on nanoporous Au. <i>Journal of Applied Physics</i> , 2011, 109, 084315.	1.1	5
67	Anomalous mechanical characteristics of Au/Cu nanocomposite processed by Cu electroplating. <i>Philosophical Magazine</i> , 2015, 95, 1499-1510.	0.7	5
68	Mechanical characterization of nanoporous Au modified with self-assembled monolayers. <i>Applied Physics Letters</i> , 2016, 109, 261905.	1.5	5
69	Bimodal nanoporous platinum on sacrificial nanoporous copper for catalysis of the oxygen-reduction reaction. <i>MRS Communications</i> , 2019, 9, 292-297.	0.8	5
70	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
71	A superelastic nanocrystalline Cu-Sn alloy thin film processed by electroplating. <i>Materials Letters</i> , 2008, 62, 4473-4475.	1.3	4
72	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

#	ARTICLE	IF	CITATIONS
73	Visible-light photocatalysis of ZnO deposited on nanoporous Au. Applied Physics A: Materials Science and Processing, 2014, 114, 1061-1066.	1.1	4
74	Detachment of Mesenchymal Stem Cells and Their Cell Sheets Using pH-Responsive CaCO ₃ Particles. Materials Transactions, 2019, 60, 2456-2463.	0.4	4
75	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
76	Comparison of Mechanical Properties of Thin Copper Films Processed by Electrodeposition and Rolling. Materials Transactions, 2007, 48, 2336-2339.	0.4	3
77	Formation of Nanoporous Structure on Pt Plate Surface by Alloying/Dealloying Technique. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2011, 75, 42-46.	0.2	3
78	Synthesis of carbon nanotube/Ni nanocomposite film by electrophoresis and electroless deposition without Pd pretreatment. Thin Solid Films, 2013, 531, 99-102.	0.8	3
79	Nano-anchor effect by anodic oxidation of aluminum sheets in joining by electrodeposition. Procedia Manufacturing, 2018, 15, 1416-1421.	1.9	3
80	Inactivation of HeLa cells on nanoporous gold. Materialia, 2019, 7, 100370.	1.3	3
81	Oxygen reduction on bimodal nanoporous palladium-copper catalyst synthesized using sacrificial nanoporous copper. Journal of Materials Research, 2019, 34, 2086-2094.	1.2	3
82	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
83	New Dissimilar Joining Method of CFRP/A6061 Al by Cu Electrodeposition. Materials Transactions, 2021, 62, 688-690.	0.4	3
84	Processing of Nanoporous Gold by Dealloying and its Morphological Control. Materials Science Forum, 2007, 561-565, 1657-1660.	0.3	2
85	Grain Refinement of Mg-Al-Zn Alloy Bar during Hot Compression. Materials Science Forum, 0, 706-709, 1267-1272.	0.3	2
86	Softening due to disordered grain boundaries in nanocrystalline Co. Journal of Physics Condensed Matter, 2013, 25, 345702.	0.7	2
87	Fabrication and Catalytic Decoloration Capacity of Nanodendritic Metals. Materials Transactions, 2014, 55, 534-538.	0.4	2
88	Energy jump during bond breaking. Physical Review B, 2017, 96, .	1.1	2
89	Atomistic study of inelastic deformation in aluminium grain boundary fractures. Philosophical Magazine Letters, 2017, 97, 476-485.	0.5	2
90	Antibacterial activity of ultrathin platinum islands on flat gold against Escherichia coli. Scientific Reports, 2020, 10, 9594.	1.6	2

#	ARTICLE	IF	CITATIONS
91	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
92	Adsorption of RGD Tripeptide on Au (111) Surface. Materials Transactions, 2019, 60, 1711-1715.	0.4	2
93	Porous Metals Produced by Spacer Method as Ecomaterials. Advanced Materials Research, 2006, 15-17, 416-421.	0.3	1
94	Stabilization and Decomposition of Organic Matters by Nano-porous Metals. , 2014, 4, 335-340.		1
95	Sterilization by a Pulsed Electric Field with Dendritic Gold Electrodes. Materials Transactions, 2018, 59, 1210-1213.	0.4	1
96	Effects of nanoporous Au on ATP synthase. MRS Communications, 2020, 10, 173-178.	0.8	1
97	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
98	Sound Absorption Behavior of Porous Al Produced by Spacer Method. Advanced Materials Research, 2006, 15-17, 422-427.	0.3	0
99	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
100	Compressive Properties of Porous Metals with Homogeneous Pore Characteristics. Key Engineering Materials, 2007, 340-341, 415-420.	0.4	0
101	ã,»ãf«æ§«éĈ^ŕã³/4;ã«ã,^ã,«ãfãf1/4ãf ©ã,1éŕ'ã±žã@ãš>ã- ç%o¹æ€šã@ã'ã,š. Materia Japan, 2008, 47, 182-185.	0.1	0
102	Nanoporous Ni and Ni-Cu Fabricated by Dealloying. Materials Research Society Symposia Proceedings, 2009, 1228, 60201.	0.1	0
103	Rotary-Die Equal Channel Angular Pressing Method for Light Metals. Materials Science Forum, 2010, 638-642, 1614-1617.	0.3	0
104	Fabrication and Properties of Nanoporous Metals. Materia Japan, 2011, 50, 168-171.	0.1	0
105	Detachment of human mesenchymal stem cells from a gold substrate using electric current. Materialia, 2020, 13, 100866.	1.3	0
106	OS0116 Relationship between grain boundary energy and free volume in magnesium : first-principles study. The Proceedings of the Materials and Mechanics Conference, 2014, 2014, _OS0116-1_-_OS0116-3_.	0.0	0
107	Old and new nanomaterials: nanoporous metals. Keikinzoku/Journal of Japan Institute of Light Metals, 2022, 72, 58-65.	0.1	0