

Takeshi Ohgai

List of Publications by Year in descending order

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papers

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567144

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docs citations

74
times ranked

734
citing authors

#	ARTICLE	IF	CITATIONS
1	Template synthesis and magnetoresistance property of Ni and Co single nanowires electrodeposited into nanopores with a wide range of aspect ratios. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 3109-3114.	1.3	61
2	Bridging the gap between template synthesis and microelectronics: spin-valves and multilayers in self-organized anodized aluminium nanopores. <i>Nanotechnology</i> , 2003, 14, 978-982.	1.3	60
3	Electrochemical synthesis and magnetoresistance properties of Ni, Co and Co/Cu nanowires in a nanoporous anodic oxide layer on metallic aluminium. <i>Journal of Materials Chemistry</i> , 2003, 13, 2530-2534.	6.7	56
4	Role of polyethylene glycol in electrodeposition of zinc-chromium alloys. <i>Journal of Applied Electrochemistry</i> , 2000, 30, 817-822.	1.5	37
5	Electrochemical Surface Modification of Aluminium Sheets for Application to Nano-electronic Devices: Anodization Aluminium and Electrodeposition of Cobalt-Copper. <i>Journal of Applied Electrochemistry</i> , 2004, 34, 1007-1012.	1.5	37
6	Magneto-sensitive nickel nanowires fabricated by electrodeposition into multi- and single-ion track templates. <i>Journal of Applied Electrochemistry</i> , 2006, 36, 1157-1162.	1.5	32
7	Nanocrystalline structure and soft magnetic properties of nickel-molybdenum alloy thin films electrodeposited from acidic and alkaline aqueous solutions. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 743-750.	1.2	32
8	CdTe semiconductor nanowires and NiFe ferro-magnetic metal nanowires electrodeposited into cylindrical nano-pores on the surface of anodized aluminum. <i>Journal of Applied Electrochemistry</i> , 2005, 35, 479-485.	1.5	31
9	Controlled fabrication of ion track nanowires and channels. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 676-686.	0.6	29
10	Electrodeposition of cobalt based ferro-magnetic metal nanowires in polycarbonate films with cylindrical nanochannels fabricated by heavy-ion-track etching. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 713-719.	1.5	27
11	Soft magnetic properties of Ni-Cr and Co-Cr alloy thin films electrodeposited from aqueous solutions containing trivalent chromium ions and glycine. <i>Journal of Applied Electrochemistry</i> , 2012, 42, 893-899.	1.5	24
12	Ferromagnetic nickel silicide nanowires for isolating primary CD4+ T lymphocytes. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	22
13	Anisotropic Magnetization Behavior of Electrodeposited Nanocrystalline Ni-Mo Alloy Thin Films and Nanowires Array. <i>Journal of the Electrochemical Society</i> , 2012, 159, H800-H804.	1.3	22
14	Uniaxial Magnetization Performance of Textured Fe Nanowire Arrays Electrodeposited by a Pulsed Potential Deposition Technique. <i>Nanoscale Research Letters</i> , 2017, 12, 598.	3.1	19
15	Electroplated Fe-Co-Ni films prepared from deep-eutectic-solvent-based plating baths. <i>AIP Advances</i> , 2016, 6, .	0.6	17
16	CPP-GMR Performance of Electrochemically Synthesized Co/Cu Multilayered Nanowire Arrays with Extremely Large Aspect Ratio. <i>Nanomaterials</i> , 2020, 10, 5.	1.9	17
17	Electrochemical Fabrication of Metallic Nanowires and Metal Oxide Nanopores. <i>Materials and Manufacturing Processes</i> , 2007, 22, 440-443.	2.7	16
18	Development of new additive for grain refinement of austenitic stainless steel. <i>International Journal of Cast Metals Research</i> , 2008, 21, 49-55.	0.5	16

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19	Bending behavior of Cu-plated Pd–Ni alloys ribbon driven by hydrogenation. <i>Journal of Alloys and Compounds</i> , 2009, 482, 416-419.	2.8	16
20	Facile wet-chemical synthesis of differently shaped cuprous oxide particles and a thin film: Effect of catalyst morphology on the glucose sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2015, 214, 189-196.	4.0	15
21	Isotropic magnetization response of electrodeposited nanocrystalline Ni–W alloy nanowire arrays. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 301-307.	1.5	14
22	Electroplated Fe films prepared from a deep eutectic solvent. <i>Journal of Applied Physics</i> , 2014, 115, 17A344.	1.1	13
23	Fe-Pt thick-film magnets prepared by electroplating method. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	13
24	Characterization of fiber-reinforced metal matrix composites fabricated by low-pressure infiltration process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 413-414, 521-526.	2.6	12
25	Effect of current density on magnetic properties of electrodeposited Fe-Ni films prepared in a citric-acid-based-bath. <i>Journal of Applied Physics</i> , 2014, 115, 17A325.	1.1	10
26	Electroplated Fe–Ni Films Prepared From Deep Eutectic Solvents. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	1.2	10
27	Magnetic Fe-Co films electroplated in a deep-eutectic-solvent-based plating bath. <i>Journal of Applied Physics</i> , 2015, 117, 17A925.	1.1	10
28	Improvement in current efficiency of electroplated Fe-Ni films prepared in citric-acid-based baths. <i>Journal of Applied Physics</i> , 2015, 117, 17A326.	1.1	10
29	Determination of Activation Overpotential during the Nucleation of Hcp-Cobalt Nanowires Synthesized by Potentio-Static Electrochemical Reduction. <i>Materials</i> , 2018, 11, 2355.	1.3	10
30	Determination of Crystal Growth Geometry Factors and Nucleation Site Densities of Electrodeposited Ferromagnetic Cobalt Nanowire Arrays. <i>Crystals</i> , 2019, 9, 142.	1.0	10
31	Effect of Growth Rate on the Crystal Orientation and Magnetization Performance of Cobalt Nanocrystal Arrays Electrodeposited from Aqueous Solution. <i>Nanomaterials</i> , 2018, 8, 566.	1.9	8
32	Determination of cathode current efficiency for electrodeposition of ferromagnetic cobalt nanowire arrays in nanochannels with extremely large aspect ratio. <i>Results in Physics</i> , 2019, 15, 102658.	2.0	8
33	Morphology Control of Zn-SiO ₂ Composite Films Electrodeposited from Aqueous Solution Containing Quaternary Ammonium Cations. <i>Journal of Physics: Conference Series</i> , 2013, 417, 012006.	0.3	7
34	Effects of annealing and pulse plating on soft magnetic properties of electroplated Fe-Ni films. <i>AIP Advances</i> , 2016, 6, .	0.6	7
35	Uniaxial magnetization reversal process in electrodeposited high-density iron nanowire arrays with ultra-large aspect ratio. <i>Results in Physics</i> , 2019, 15, 102653.	2.0	7
36	Separation of PRMMC into matrix alloy and reinforcements by nozzle filtering method. <i>Journal of Materials Processing Technology</i> , 2009, 209, 4264-4267.	3.1	6

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37	CPP-GMR performance of electrodeposited metallic multilayered nanowires with a wide range of aspect ratios. Journal of Magnetism and Magnetic Materials, 2021, 529, 167849.	1.0	6
38	Electroplated Fe-Pt thick films prepared in plating baths with various pH values. AIP Advances, 2016, 6, .	0.6	5
39	Electrodeposition Process of Zn-Cr Alloys from Sulfate Baths.. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 1996, 47, 868-872.	0.1	4
40	Magneto-resistance of Nanowires Electrodeposited into Anodized Aluminum Oxide Nanochannels. , 0, , .		4
41	Functional Nanowires Array Electrodeposited into Nano-porous Membrane Thin Films. Journal of Physics: Conference Series, 2013, 417, 012047.	0.3	4
42	Uniaxial magnetization performance of Co-Al ₂ O ₃ nano-composite films electrochemically synthesized from acidic aqueous solution. Journal of Solid State Electrochemistry, 2016, 20, 1665-1672.	1.2	4
43	Perpendicular magnetization performance of hcp-cobalt nanocylinder array films electrodeposited from an aqueous solution containing cobalt (II) citrate complexes. Journal of Materials Research and Technology, 2020, 9, 8029-8040.	2.6	4
44	Mechanical Properties of Solder-Jointed Copper Rods with Electrodeposited Sn-Zn Alloy Films. Materials, 2020, 13, 1330.	1.3	4
45	Determination of Cobalt Spin-Diffusion Length in Co/Cu Multilayered Heterojunction Nanocylinders Based on Valet-Fert Model. Nanomaterials, 2021, 11, 218.	1.9	4
46	CPP-GMR of Co/Cu Multilayered Nanowires Electrodeposited into Anodized Aluminum Oxide Nanochannels with Large Aspect Ratio. ECS Transactions, 2013, 50, 201-206.	0.3	3
47	Magnetization and microhardness of iron-chromium alloy films electrodeposited from an aqueous solution containing N, N-dimethylformamide. Journal of Materials Research and Technology, 2022, 18, 2735-2744.	2.6	3
48	Structure and Soft Magnetic Properties of Fe–N Thin Films RF-Sputtered on Heated Substrate. Materials Transactions, JIM, 1997, 38, 503-507.	0.9	2
49	Pulse Plating of Zn-Cr Alloys from Sulfate Baths.. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2001, 52, 217-221.	0.1	2
50	Novel Separation Technique of Particle Reinforced Metal Matrix Composites by Fused Deposition Method. Materials Science Forum, 2007, 539-543, 1028-1032.	0.3	2
51	New Application of High Niobium Cast Iron as a Grain Refiner for Stainless Steels. Key Engineering Materials, 0, 457, 447-452.	0.4	2
52	Fabrication of Co/Cu Multilayered Nanowires Using a Pulsed Current Deposition Technique. Materials Science Forum, 2010, 654-656, 1728-1731.	0.3	2
53	Current-perpendicular-to-plane giant magnetoresistance in Co/Cu multilayered nanocylinders electrodeposited into anodized aluminum oxide nanochannels with ultra-large aspect ratio. Journal of Materials Science: Materials in Electronics, 2021, 32, 10089-10100.	1.1	2
54	Single Crystalline Ferro-magnetic Metal Nanowires Electrodeposited into Nanoporous Polycarbonate Films. E-Journal of Surface Science and Nanotechnology, 2006, 4, 334-338.	0.1	2

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55	Post-Annealing Effects on the Structure and Semiconductor Performance of Nanocrystalline ZnTe Thin Films Electrodeposited from an Aqueous Solution Containing Citric Acid. Applied Sciences (Switzerland), 2021, 11, 10632.	1.3	2
56	Microhardness and heat-resistance performance of ferromagnetic cobalt-molybdenum nanocrystals electrodeposited from an aqueous solution containing citric acid. Materials Research Express, 2022, 9, 046502.	0.8	2
57	Electrodeposition of Rhenium from Fluoborate Baths.. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 1996, 47, 883-884.	0.1	1
58	Effect of Thiocyanate Ions on the Electrodeposition Behavior of Zn-iron-group Metal Alloys in Sulfate Baths.. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 1997, 48, 1124-1130.	0.1	1
59	Solid Free-Form Fabrication of Metallic Components. Advanced Materials Research, 2006, 15-17, 175-180.	0.3	1
60	Effect of Alumina Fibers on Fabrication Process and Characteristics of Alumina Fiber Reinforced Aluminum Alloy Composites. Materials Science Forum, 2010, 638-642, 956-960.	0.3	1
61	Sn-modified Ni-nanowire array films prepared by electrodeposition and their electrochemical properties as an anode material of lithium-ion batteries. , 2012, , .		1
62	Anisotropic Magnetoresistance of Ni-Co-Fe Alloy Nanowires Electrodeposited into Anodized Aluminium Oxide Membrane Thin Films. ECS Transactions, 2013, 50, 217-222.	0.3	1
63	Development of Actuator Utilizing Hydrogen Storage Alloys. , 2010, , 337-349.		1
64	Structure and Soft Magnetic Properties of Fe-N Thin Films RF-Sputtered on Heated Substrate. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1995, 59, 1103-1107.	0.2	1
65	Nanocrystalline structure and microhardness of cobalt-chromium alloys electrochemically synthesized using a metal hydroxide coprecipitation technique. Materials Research Express, 2022, 9, 026515.	0.8	1
66	Critical Current Density for Zinc Deposition from Sulfate Baths Containing Sodium Citrate.. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 1997, 48, 647-652.	0.1	0
67	Effects of Plating Factors on the Magnetic Properties of Co-P Electrodeposited from Chloride Baths.. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2001, 52, 418-423.	0.1	0
68	Electrodeposition of Metallic Nanowires in Nanoporous Polycarbonate Films. Materials Science Forum, 0, 539-543, 1253-1257.	0.3	0
69	Fabrication of Functional Metallic Nanowires Using Electrodeposition Technique. , 2010, , .		0
70	Electrodeposition of Ferromagnetic Metal Nanowires. Materials Science Forum, 0, 638-642, 787-792.	0.3	0
71	Fabrication of Numerous Ferromagnetic Metal Nanowires Using Electrodeposition Technique. Materials Science Forum, 0, 654-656, 1724-1727.	0.3	0
72	Electrodeposition of ZnTe Compound Semiconductors from Aqueous Solution. Materials Science Forum, 2010, 654-656, 1732-1735.	0.3	0

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73	ZnTe Amorphous Semiconductor Nanowires Array Electrodeposited into Polycarbonate Membrane Thin Films. <i>Journal of Physics: Conference Series</i> , 2013, 417, 012005.	0.3	0
74	Effect of Ni addition on CPP-GMR response in electrodeposited Co-Ni/Cu multilayered nanocylinders with an ultra-large aspect ratio. <i>Materials Research Express</i> , 0, , .	0.8	0