Isao Matsui

List of Publications by Year in Descending Order

52 papers	522 citations	14 h-index	21 g-index
52 ext. papers	592 ext. citations	2.4 avg, IF	4 L-index

#	Paper	IF	Citations
52	Electrodeposition of bulk nanocrystalline NiFeP alloys and their mechanical and soft magnetic properties. *Materialia*, **2020**, 12, 100766	3.2	3
51	Microstructural heterogeneity in the electrodeposited Ni: insights from growth modes. *Scientific Reports*, **2020**, 10, 5548	4.9	6
50	Direct observations of nucleant TiB2 particles in cast aluminum by synchrotron radiation multiscale tomography. *Materialia*, **2020**, 10, 100663	3.2	4
49	Mechanical properties and microstructures after abnormal grain growth in electrodeposited NiW alloys. *Materialia*, **2019**, 8, 100481	3.2	4
48	Thermal embrittlement and microstructure change in electrodeposited Ni. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 745, 168-175	5.3	9
47	Microstructure refinement of 7150 aluminum alloy ingot with rectangular section by applying forward-reverse electromagnetic stirring. *Keikinzoku/Journal of Japan Institute of Light Metals*, **2019**, 69, 30-35	0.3	0
46	Direct observation of strain-stored grains in electrodeposited nanocrystalline Ni-W alloys by low-angle annular dark field diffraction contrast imaging. *Scripta Materialia*, **2019**, 166, 29-33	5.6	3
45	Suppression of the thermal embrittlement induced by sulfur segregation to grain boundary in Ni-based electrodeposits. *Materialia*, **2019**, 6, 100312	3.2	5
44	Ductile electrodeposited Al from a dimethylsulfone bath with trace amounts of tin chloride. *Materials Letters*, **2019**, 244, 192-194	3.3	2
43	Electrodeposition for Bulk Nanocrystalline Ni Alloys and Their Mechanical Properties. *Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan*, **2019**, 70, 103-108	0.1	1
42	Reduction of impurity contents in aluminum plates electrodeposited from a dimethylsulfone-aluminum chloride bath. *Journal of Alloys and Compounds*, **2019**, 783, 919-926	5.7	7
41	Development of Electrodeposition Process Based on Chloride Electrolytes for Bulk Pure Fe with Plastic Deformability. *Materials Transactions*, **2019**, 60, 130-135	1.3	
40	Revealing the intrinsic ductility of electrodeposited nanocrystalline metals. *Materials Letters*, **2019**, 235, 224-227	3.3	3
39	Electrodeposition with intermittent addition of trimethylamine borane to produce ductile bulk nanocrystalline NiB alloys. *Surface and Coatings Technology*, **2018**, 337, 411-417	4.4	29
38	Comparison of Tensile Properties of Bulk Nanocrystalline NiW Alloys Electrodeposited by Direct, Pulsed, and Pulsed-Reverse Currents. *Materials Transactions*, **2018**, 59, 123-128	1.3	4
37	Promotion of Separation of Two-Phase Liquid Metals by Applying Mechanical Vibration. *Minerals, Metals and Materials Series*, **2018**, 1163-1166	0.3	
36	Reduction of hydrogen content in 7000 series aluminum alloys by heat treatment in air. *Keikinzoku/Journal of Japan Institute of Light Metals*, **2018**, 68, 150-151	0.3	

35	Effect of low-temperature annealing on tensile behavior of electrodeposited bulk nanocrystalline Ni–W alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 709, 241-246	5.3	14
34	Imposition Time Dependent Microstructure Formation in 7150 Aluminum Alloy Solidified by an Electromagnetic Stirring Technique. *Materials Transactions*, **2018**, 59, 1603-1609	1.3	6
33	Fabrication of Bulk Ni–Mo Alloys by Electrodeposition with Intermittent Addition of Sodium Molybdate. *Materials Transactions*, **2018**, 59, 1823-1828	1.3	2
32	Connecting Grain Boundary Stability With Tensile Behavior in Electrodeposited Bulk Nanocrystalline Ni Alloys. *Materia Japan*, **2018**, 57, 479-486	0.1	1
31	An Electrodeposition Process for Producing Ductile Bulk Nanocrystalline Ni–Fe Alloys in a Wide Current Density Range. *Materials Transactions*, **2018**, 59, 1354-1358	1.3	3
30	Fabricating Bulk Nanocrystalline Ni–W–B Alloys by Electrodeposition. *Materials Transactions*, **2017**, 58, 1038-1041	1.3	2
29	Relationship between grain boundary relaxation strengthening and orientation in electrodeposited bulk nanocrystalline Ni alloys. *Materials Letters*, **2017**, 205, 211-214	3.3	9
28	Fabrication of Electrodeposited Bulk Nanocrystalline Ni-Mo Alloys from a Gluconate Bath And Their Mechanical Properties. *Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan*, **2016**, 67, 434-439	0.1	1
27	Controlling the Growth Mode for Producing Electrodeposited Bulk Nanocrystalline Metals and Alloys with Good Combination of Strength and Ductility. *Materia Japan*, **2016**, 55, 166-170	0.1	15
26	Reduction in sulfur content of electrodeposited bulk nanocrystalline Fe–Ni alloys using manganese chloride. *Materials Letters*, **2016**, 175, 86-88	3.3	13
25	Effect of machining and storage conditions on hydrogen analysis for 7075 aluminum alloy. *Keikinzoku/Journal of Japan Institute of Light Metals*, **2016**, 66, 68-71	0.3	
24	Development of Electrodeposition Bath Using a Substitute of Propionic Acid for Bulk Nanocrystalline Ni-W Alloys with High Ductility. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2016**, 80, 217-223	0.4	2
23	Mechanical Behavior of Electrodeposited Bulk Nanocrystalline Fe-Ni Alloys. *Materials Research*, **2015**, 18, 95-100	1.5	7
22	Enhancement in mechanical properties of bulk nanocrystalline Fe–Ni alloys electrodeposited using propionic acid. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 607, 505-510	5.3	32
21	Contribution of interstitial solute strengthening in aluminum. *Philosophical Magazine Letters*, **2014**, 94, 63-71	1	11
20	Fabrication of bulk nanocrystalline Fe–Ni alloys with high strength and high ductility by an electrodeposition. *Materials Letters*, **2014**, 116, 71-74	3.3	34
19	Strategy for Electrodeposition of Highly Ductile Bulk Nanocrystalline Metals with a Face-Centered Cubic Structure. *Materials Transactions*, **2014**, 55, 1859-1866	1.3	24
18	Influence of Impurities on Mechanical Properties of Electrodeposited Bulk Nanocrystalline Al. *Advanced Materials Research*, **2014**, 922, 574-579	0.5	

17	Preparatory Electrodeposition Process for High Purity Bulk Aluminum. *Advanced Materials Research* , **2014**, 922, 237-241	0.5	
16	High Tensile Ductility in Electrodeposited Bulk Nanocrystalline Ni□W Alloys. *Advanced Materials Research*, **2014**, 922, 497-502	0.5	4
15	Pre-electrodeposition process for improving tensile ductility of Al electrodeposited from a dimethylsulfone bath. *Materials Letters*, **2013**, 109, 229-232	3.3	11
14	Fabrication of Bulk Nanocrystalline Ni-W with Plastic Deformability Electrodeposited from a Sulfamate Bath **2013**, 3291-3296		
13	Effect of additives on tensile properties of bulk nanocrystalline Ni□W alloys electrodeposited from a sulfamate bath. *Materials Letters*, **2013**, 99, 65-67	3.3	25
12	Effect of interstitial carbon on the mechanical properties of electrodeposited bulk nanocrystalline Ni. *Acta Materialia*, **2013**, 61, 3360-3369	8.4	64
11	Effect of orientation on tensile ductility of electrodeposited bulk nanocrystalline Ni□W alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2013**, 578, 318-322	5.3	39
10	Fabrication of bulk nanocrystalline Ni-W with plastic deformability electrodeposited from a sulfamate bath **2013**, 3291-3296		
9	Improvement in tensile ductility of electrodeposited bulk nanocrystalline Ni□W by sulfamate bath using propionic acid. *Microelectronic Engineering*, **2012**, 91, 98-101	2.5	15
8	Fabrication of bulk nanocrystalline Al electrodeposited from a dimethylsulfone bath. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 550, 363-366	5.3	25
7	Influence of Gloss Agent Types on Tensile Properties of Bulk Nanocrystalline Ni Electrodeposited from Sulfamate Bath. *Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan*, **2011**, 62, 686	0.1	15
6	Influence of Bath Composition on Tensile Ductility in Electrodeposited Bulk Nanocrystalline Nickel. *Materials Transactions*, **2011**, 52, 142-146	1.3	14
5	Application of Electroforming Process to Bulk Amorphous Ni-W Alloy. *Materials Transactions*, **2011**, 52, 37-40	1.3	19
4	Enhanced tensile ductility in bulk nanocrystalline nickel electrodeposited by sulfamate bath. *Materials Letters*, **2011**, 65, 2351-2353	3.3	26
3	OS19-1-3 Influence of Gloss Agents on Mechanical properties of Electrodeposited Bulk Nanocrystalline Ni. *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics*, **2011**, 2011.10, _OS19-1-3-	0	
2	OS19-1-4 Fabrication of Bulk Nanocrystalline Ni-W with Plastic Deformability by Electrodeposition. *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics*, **2011**, 2011.10, _OS19-1-4-	0	
1	Tensile Properties of Bulk Nanocrystalline Ni and Ni-W Fabricated by Sulfamate Bath. *Materials Science Forum*, **2010**, 654-656, 1114-1117	0.4	9