

Motohiro Yuasa

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

797

citations

13

h-index

25

g-index

62

ext. papers

930

ext. citations

3.1

avg, IF

4.34

L-index

#	Paper	IF	Citations
62	Discharge properties of Mg ₂ Al ₃ MnCa and Mg ₂ Al ₃ Mn alloys as anode materials for primary magnesium-air batteries. <i>Journal of Power Sources</i> , 2015 , 297, 449-456	8.9	96
61	Effects of group II elements on the cold stretch formability of Mg-Zn alloys. <i>Acta Materialia</i> , 2015 , 83, 294-303	8.4	92
60	Improved plastic anisotropy of Mg-Zn-Ca alloys exhibiting high-stretch formability: A first-principles study. <i>Acta Materialia</i> , 2014 , 65, 207-214	8.4	68
59	Microstructure and mechanical properties of AZX912 magnesium alloy extruded at different temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 679, 162-171	5.3	41
58	Bond mobility mechanism in grain boundary embrittlement: First-principles tensile tests of Fe with a P-segregated Σ grain boundary. <i>Physical Review B</i> , 2010 , 82,	3.3	39
57	Effects of Microstructure on Discharge Behavior of AZ91 Alloy as Anode for Mg-Air Battery. <i>Materials Transactions</i> , 2014 , 55, 1202-1207	1.3	31
56	Mechanical properties of a nanocrystalline Co-Cu alloy with a high-density fine nanoscale lamellar structure. <i>Scripta Materialia</i> , 2008 , 58, 731-734	5.6	28
55	Effects of segregated Cu on an Fe grain boundary by first-principles tensile tests. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 505705	1.8	27
54	Effects of initial microstructure on the microstructural evolution and stretch formability of warm rolled Mg-Al-Zn alloy sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 587, 150-160	5.3	23
53	Interaction mechanisms of screw dislocations with and twin boundaries in Mg. <i>Philosophical Magazine</i> , 2014 , 94, 285-305	1.6	22
52	Corrosion Behavior of Severely Deformed Pure and Single-Phase Materials. <i>Materials Transactions</i> , 2019 , 60, 1243-1255	1.3	20
51	Interactions of a screw dislocation with a $\{101\}$ / $\{102\}$ double twin in Mg. <i>Acta Materialia</i> , 2013 , 61, 4714-4725	4.5	18
50	Effect of segregated elements on the interactions between twin boundaries and screw dislocations in Mg. <i>Journal of Applied Physics</i> , 2015 , 118, 034304	2.5	13
49	First-principles study in Fe grain boundary with Al segregation: variation in electronic structures with straining. <i>Philosophical Magazine</i> , 2013 , 93, 635-647	1.6	13
48	Texture Formation and Room-Temperature Formability of Rolled Mg-Zn-Ce Alloys. <i>Materials Transactions</i> , 2014 , 55, 1190-1195	1.3	12
47	Mechanical and chemical effects of solute elements on generalized stacking fault energy of Mg. <i>Journal of Materials Research</i> , 2014 , 29, 2576-2586	2.5	12
46	$\{10\bar{1}0\}$ twins in the rolled Mg-Zn-Ca alloy with high formability. <i>Journal of Materials Research</i> , 2014 , 29, 3024-3031	2.5	12

45	Age-hardening mechanism for nanocrystalline NiP alloys synthesized by electrodeposition. <i>Surface and Coatings Technology</i> , 2014 , 253, 154-160	4.4	11
44	First-Principles Study on Enhanced Grain Boundary Embrittlement of Iron by Phosphorus Segregation. <i>Materials Transactions</i> , 2011 , 52, 1369-1373	1.3	11
43	Deformation behavior of an ultrafine grained two phase CoCu alloy processed by electrodeposition. <i>Scripta Materialia</i> , 2010 , 63, 132-135	5.6	11
42	Atomic simulation of grain boundary sliding in Co/Cu two-phase bicrystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 2629-2636	5.3	11
41	Atomic simulations of dislocation emission from Cu/Cu and Co/Cu grain boundaries. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 528, 260-267	5.3	11
40	Microstructural and textural evolution of pure titanium during differential speed rolling and subsequent annealing. <i>Journal of Materials Science</i> , 2014 , 49, 3166-3176	4.3	10
39	Effect of segregated Al on $\{10\bar{1}2\}$ and $\{10\bar{1}1\}$ twinning in Mg. <i>Journal of Materials Research</i> , 2015 , 30, 3629-3641	2.5	10
38	Hot compression deformation behavior of MgZn alloys containing LPSO phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 792, 139777	5.3	10
37	Ferromagnetic Properties of Co-Cu Alloy with Nanoscale Lamellar Structure. <i>Materials Transactions</i> , 2009 , 50, 419-422	1.3	9
36	Effects of Vacancies on Deformation Behavior in Nanocrystalline Nickel. <i>Materials Transactions</i> , 2008 , 49, 2315-2321	1.3	9
35	Enhanced Corrosion Resistance of Ultrafine-Grained Fe-Cr Alloys with Subcritical Cr Contents for Passivity. <i>Metals</i> , 2018 , 8, 149	2.3	8
34	First-principles Study of Hydrogen-induced Embrittlement in Fe Grain Boundary with Cr Segregation. <i>ISIJ International</i> , 2015 , 55, 1131-1134	1.7	8
33	Hydrogen embrittlement in a magnesium grain boundary: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 085701	1.8	8
32	Saturation magnetization in supersaturated solid solution of CoCu alloy. <i>Applied Physics Letters</i> , 2009 , 95, 162502	3.4	8
31	Enhanced Room-Temperature Stretch Formability of Mg-0.2 mass%Ce Alloy Sheets Processed by Combination of High-Temperature Pre-Annealing and Warm Rolling. <i>Materials Transactions</i> , 2015 , 56, 1096-1101	1.3	7
30	Enhanced grain boundary embrittlement of an Fe grain boundary segregated by hydrogen (H). <i>Journal of Materials Research</i> , 2012 , 27, 1589-1597	2.5	7
29	Numerical Analysis of a New Nonlinear Twist Extrusion Process. <i>Metals</i> , 2019 , 9, 513	2.3	6
28	Fabrication of dense ZrB ₂ /B ₄ C composites using pulsed electric current pressure sintering and evaluation of their high-temperature bending strength. <i>Ceramics International</i> , 2020 , 46, 18478-18486	5.1	6

27	Electrodeposition of nanocrystalline nickel embedded with inert nanoparticles formed via inverse hydrolysis. <i>Applied Surface Science</i> , 2018 , 458, 612-618	6.7	6
26	Quantitative kink boundaries strengthening effect of Mg-Y-Zn alloy containing LPSO phase. <i>Materials Letters</i> , 2021 , 292, 129625	3.3	6
25	Fabrication and anisotropic electronic property for oriented Li _{1-x} Nb _{1-x} Ti _{1-x} O ₃ solid solution by slip casting in a high magnetic field. <i>Advanced Powder Technology</i> , 2017 , 28, 2373-2379	4.6	5
24	Atomic simulations of (101 $\bar{2}$), (101 $\bar{1}$) twinning and (101 $\bar{2}$) detwinning in magnesium. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 015003	1.8	5
23	Changes in the grain boundaries of a nanolamellar structured Co-Cu alloy by annealing. <i>Scripta Materialia</i> , 2009 , 61, 371-374	5.6	5
22	Anomalous mechanical characteristics of Au/Cu nanocomposite processed by Cu electroplating. <i>Philosophical Magazine</i> , 2015 , 95, 1499-1510	1.6	4
21	Visible-light photocatalysis of ZnO deposited on nanoporous Au. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 114, 1061-1066	2.6	4
20	Grain Boundary Embrittlement of Fe Induced by P Segregation: First-Principles Tensile Tests. <i>Advanced Materials Research</i> , 2011 , 409, 455-460	0.5	4
19	A superelastic nanocrystalline Cu-Ni alloy thin film processed by electroplating. <i>Materials Letters</i> , 2008 , 62, 4473-4475	3.3	4
18	Corrosion Behavior of Ultrafine-Grained CoCrFeMnNi High-Entropy Alloys Fabricated by High-Pressure Torsion.. <i>Materials</i> , 2022 , 15,	3.5	4
17	Effects of stacking fault energy and solute atoms on microstructural evolution of Cu, Ag and Cu-Al alloys processed by equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 803, 140716	5.3	4
16	Effect of Annealing on Mechanical Properties and Nanoscale Lamellar Structure in Co-Cu Alloy. <i>Materials Transactions</i> , 2009 , 50, 570-578	1.3	3
15	Potential of High Compressive Ductility of Ultrafine Grained Copper Fabricated by Severe Plastic Deformation. <i>Metals</i> , 2020 , 10, 1503	2.3	3
14	Softening due to disordered grain boundaries in nanocrystalline Co. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 345702	1.8	2
13	Microstructural Characterization of Mechanically Alloyed FeCoNiMnV High Entropy Alloy Consolidated by Spark Plasma Sintering. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901311	3.5	2
12	Grain Refinement of Pure Magnesium Using Nonlinear Twist Extrusion. <i>Materials Science Forum</i> , 2018 , 939, 54-62	0.4	2
11	Nanocrystalline Nickel Dispersed with Hydrolyzed Nano-Size Tungsten Oxide Particles by Electrodeposition. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 80, 109-113	0.4	1
10	Atomic simulations of GB sliding in pure and segregated bicrystals. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1515, 1		1

9	Grain boundary sliding in pure and segregated bicrystals: a molecular dynamics and first principles study. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 265703	1.8	1
8	Effect of solute Mn on microstructural evolution of CuMn alloys processed by equal channel angular pressing. <i>Journal of Materials Research</i> , 2021 , 36, 2890-2902	2.5	1
7	Improvement of the Mechanical Properties of Magnesium Alloy AZ31 Using Non-linear Twist Extrusion (NTE). <i>Procedia Structural Integrity</i> , 2019 , 21, 73-82	1	1
6	Kink bands strengthening of Mg-Y-Zn alloy via various wrought-processing. <i>Materials Letters</i> , 2021 , 304, 130653	3.3	1
5	Molecular dynamics and first-principles study of grain boundary sliding in metals. <i>Transactions of the Materials Research Society of Japan</i> , 2014 , 39, 31-34	0.2	0
4	Extraordinary diffusion in Co/Cu grain boundaries. <i>Scripta Materialia</i> , 2015 , 101, 52-55	5.6	
3	Effect of Thermomechanical Processing on Grain Size, Texture and Mechanical Properties of Pure Magnesium. <i>Materials Science Forum</i> , 2020 , 985, 97-108	0.4	
2	Deformation behavior of nanocrystalline Co-Cu alloys. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1224, 1		
1	Development of Nanocrystalline CoCu Alloys for Energy Applications. <i>Green Energy and Technology</i> , 2010 , 191-194	0.6	