

Motohiro Yuasa

List of Publications by Year in descending order

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62
papers

1,053
citations

566801

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454577

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all docs

62
docs citations

62
times ranked

891
citing authors

#	ARTICLE	IF	CITATIONS
1	Discharge properties of Mg-Al-Mn-Ca and Mg-Al-Mn alloys as anode materials for primary magnesium-air batteries. <i>Journal of Power Sources</i> , 2015, 297, 449-456.	4.0	142
2	Effects of group II elements on the cold stretch formability of Mg-Zn alloys. <i>Acta Materialia</i> , 2015, 83, 294-303.	3.8	120
3	Improved plastic anisotropy of Mg-Zn-Ca alloys exhibiting high-stretch formability: A first-principles study. <i>Acta Materialia</i> , 2014, 65, 207-214.	3.8	90
4	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.	2.6	54
5	Bond mobility mechanism in grain boundary embrittlement: First-principles tensile tests of Fe with a P-segregated grain boundary. <i>Physical Review B</i> , 2010, 82, .	1.1	47
6	Effects of Microstructure on Discharge Behavior of AZ91 Alloy as Anode for Mg–Air Battery. <i>Materials Transactions</i> , 2014, 55, 1202-1207.	0.4	38
7	Effects of segregated Cu on an Fe grain boundary by first-principles tensile tests. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 505705.	0.7	34
8	Mechanical properties of a nanocrystalline Co-Cu alloy with a high-density fine nanoscale lamellar structure. <i>Scripta Materialia</i> , 2008, 58, 731-734.	2.6	31
9	Corrosion Behavior of Severely Deformed Pure and Single-Phase Materials. <i>Materials Transactions</i> , 2019, 60, 1243-1255.	0.4	31
10	Effects of initial microstructure on the microstructural evolution and stretch formability of warm rolled Mg-3Al-1Zn alloy sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 587, 150-160.	2.6	28
11	Interaction mechanisms of screw dislocations with and twin boundaries in Mg. <i>Philosophical Magazine</i> , 2014, 94, 285-305.	0.7	24
12	Interactions of a screw dislocation with a {1 0 0} grain boundary in Mg. <i>Philosophical Magazine</i> , 2014, 94, 285-305.	0.7	23
13	Hot compression deformation behavior of Mg-Al-Y-Zn alloys containing LPSO phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 792, 139777.	2.6	19
14	Quantitative kink boundaries strengthening effect of Mg-Y-Zn alloy containing LPSO phase. <i>Materials Letters</i> , 2021, 292, 129625.	1.3	19
15	First-principles study in Fe grain boundary with Al segregation: variation in electronic structures with straining. <i>Philosophical Magazine</i> , 2013, 93, 635-647.	0.7	16
16	Effect of segregated elements on the interactions between twin boundaries and screw dislocations in Mg. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	15
17	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
18	Enhanced Corrosion Resistance of Ultrafine-Grained Fe-Cr Alloys with Subcritical Cr Contents for Passivity. <i>Metals</i> , 2018, 8, 149.	1.0	15

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19	twins in the rolled Mg–Zn–Ca alloy with high formability. Journal of Materials Research, 2014, 29, 3024-3031.	1.2	14
20	Age-hardening mechanism for nanocrystalline Ni–P alloys synthesized by electrodeposition. Surface and Coatings Technology, 2014, 253, 154-160.	2.2	13
21	Mechanical and chemical effects of solute elements on generalized stacking fault energy of Mg. Journal of Materials Research, 2014, 29, 2576-2586.	1.2	13
22	Effect of segregated Al on and twinning in Mg. Journal of Materials Research, 2015, 30, 3629-3641.	1.2	13
23	Atomic simulation of grain boundary sliding in Co/Cu two-phase bicrystals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2629-2636.	2.6	12
24	Atomic simulations of dislocation emission from Cu/Cu and Co/Cu grain boundaries. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 260-267.	2.6	12
25	First-Principles Study on Enhanced Grain Boundary Embrittlement of Iron by Phosphorus Segregation. Materials Transactions, 2011, 52, 1369-1373.	0.4	12
26	Microstructural and textural evolution of pure titanium during differential speed rolling and subsequent annealing. Journal of Materials Science, 2014, 49, 3166-3176.	1.7	12
27	Texture Formation and Room-Temperature Formability of Rolled Mg–Zn–Ce Alloys. Materials Transactions, 2014, 55, 1190-1195.	0.4	12
28	Effects of Vacancies on Deformation Behavior in Nanocrystalline Nickel. Materials Transactions, 2008, 49, 2315-2321.	0.4	11
29	Deformation behavior of an ultrafine grained two phase Co–Cu alloy processed by electrodeposition. Scripta Materialia, 2010, 63, 132-135.	2.6	11
30	Fabrication of dense ZrB ₂ /B ₄ C composites using pulsed electric current pressure sintering and evaluation of their high-temperature bending strength. Ceramics International, 2020, 46, 18478-18486.	2.3	11
31	Corrosion Behavior of Ultrafine-Grained CoCrFeMnNi High-Entropy Alloys Fabricated by High-Pressure Torsion. Materials, 2022, 15, 1007.	1.3	11
32	Ferromagnetic Properties of Co-Cu Alloy with Nanoscale Lamellar Structure. Materials Transactions, 2009, 50, 419-422.	0.4	10
33	Enhanced grain boundary embrittlement of an Fe grain boundary segregated by hydrogen (H). Journal of Materials Research, 2012, 27, 1589-1597.	1.2	9
34	Saturation magnetization in supersaturated solid solution of Co–Cu alloy. Applied Physics Letters, 2009, 95, .	1.5	8
35	Hydrogen embrittlement in a magnesium grain boundary: a first-principles study. Journal of Physics Condensed Matter, 2012, 24, 085701.	0.7	8
36	Enhanced Room-Temperature Stretch Formability of Mg–0.2 mass%Ce Alloy Sheets Processed by Combination of High-Temperature Pre-Annealing and Warm Rolling. Materials Transactions, 2015, 56, 1096-1101.	0.4	8

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37	Numerical Analysis of a New Nonlinear Twist Extrusion Process. <i>Metals</i> , 2019, 9, 513.	1.0	8
38	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.	2.6	8
39	Electrodeposition of nanocrystalline nickel embedded with inert nanoparticles formed via inverse hydrolysis. <i>Applied Surface Science</i> , 2018, 458, 612-618.	3.1	7
40	Atomic simulations of $\{100\}$, $\{110\}$ twinning and $\{100\}$ detwinning in magnesium. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 015003.	0.7	6
41	Fabrication and anisotropic electronic property for oriented $\text{Li}^{+}\text{Nb}^{5+}\text{Ti}^{4+}\text{O}_3$ solid solution by slip casting in a high magnetic field. <i>Advanced Powder Technology</i> , 2017, 28, 2373-2379.	2.0	6
42	Kink bands strengthening of Mg-Y-Zn alloy via various wrought-processing. <i>Materials Letters</i> , 2021, 304, 130653.	1.3	6
43	Changes in the grain boundaries of a nanolamellar structured Co-Cu alloy by annealing. <i>Scripta Materialia</i> , 2009, 61, 371-374.	2.6	5
44	Anomalous mechanical characteristics of Au/Cu nanocomposite processed by Cu electroplating. <i>Philosophical Magazine</i> , 2015, 95, 1499-1510.	0.7	5
45	Potential of High Compressive Ductility of Ultrafine Grained Copper Fabricated by Severe Plastic Deformation. <i>Metals</i> , 2020, 10, 1503.	1.0	5
46	Effect of solute Mn on microstructural evolution of Cu-Mn alloys processed by equal channel angular pressing. <i>Journal of Materials Research</i> , 2021, 36, 2890-2902.	1.2	5
47	A superelastic nanocrystalline Cu-Sn alloy thin film processed by electroplating. <i>Materials Letters</i> , 2008, 62, 4473-4475.	1.3	4
48	Effect of Annealing on Mechanical Properties and Nanoscale Lamellar Structure in Co-Cu Alloy. <i>Materials Transactions</i> , 2009, 50, 570-578.	0.4	4
49	Grain Boundary Embrittlement of Fe Induced by P Segregation: First-Principles Tensile Tests. <i>Advanced Materials Research</i> , 0, 409, 455-460.	0.3	4
50	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
51	Grain Refinement of Pure Magnesium Using Nonlinear Twist Extrusion. <i>Materials Science Forum</i> , 0, 939, 54-62.	0.3	3
52	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.	0.7	2
53	Softening due to disordered grain boundaries in nanocrystalline Co. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 345702.	0.7	2
54	Improvement of the Mechanical Properties of Magnesium Alloy AZ31 Using Non-linear Twist Extrusion (NTE). <i>Procedia Structural Integrity</i> , 2019, 21, 73-82.	0.3	2

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55	Microstructural Characterization of Mechanically Alloyed FeCoNiMnV High Entropy Alloy Consolidated by Spark Plasma Sintering. <i>Advanced Engineering Materials</i> , 2020, 22, 1901311.	1.6	2
56	Deformation Behavior of Nanocrystalline Co-Cu Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1224, 1.	0.1	1
57	Atomic simulations of GB sliding in pure and segregated bicrystals. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1515, 1.	0.1	1
58	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	1
59	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.	0.2	1
60	Extraordinary diffusion in Co/Cu grain boundaries. <i>Scripta Materialia</i> , 2015, 101, 52-55.	2.6	0
61	Effect of Thermomechanical Processing on Grain Size, Texture and Mechanical Properties of Pure Magnesium. <i>Materials Science Forum</i> , 0, 985, 97-108.	0.3	0
62	Development of Nanocrystalline Co-Cu Alloys for Energy Applications. <i>Green Energy and Technology</i> , 2010, , 191-194.	0.4	0