

# Jin-Yoo Suh

## List of Publications by Year in descending order

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147  
papers

6,000  
citations

94269

37  
h-index

82410

72  
g-index

147  
all docs

147  
docs citations

147  
times ranked

4125  
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing metallic glass matrix composites with high toughness and tensile ductility. <i>Nature</i> , 2008, 451, 1085-1089.	13.7	1,302
2	Development of tough, low-density titanium-based bulk metallic glass matrix composites with tensile ductility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20136-20140.	3.3	308
3	Ferrite nucleation potency of non-metallic inclusions in medium carbon steels. <i>Acta Materialia</i> , 2001, 49, 2115-2122.	3.8	229
4	Microstructural evolutions of the Al strip prepared by cold rolling and continuous equal channel angular pressing. <i>Acta Materialia</i> , 2002, 50, 4005-4019.	3.8	189
5	Resistance of CoCrFeMnNi high-entropy alloy to gaseous hydrogen embrittlement. <i>Scripta Materialia</i> , 2017, 135, 54-58.	2.6	166
6	Spherical nanoindentation creep behavior of nanocrystalline and coarse-grained CoCrFeMnNi high-entropy alloys. <i>Acta Materialia</i> , 2016, 109, 314-322.	3.8	156
7	Indentation size effect and shear transformation zone size in a bulk metallic glass in two different structural states. <i>Acta Materialia</i> , 2012, 60, 6862-6868.	3.8	130
8	Finite element analysis of material flow in equal channel angular pressing. <i>Scripta Materialia</i> , 2001, 44, 677-681.	2.6	122
9	Strengthening mechanism of hot rolled Ti and Nb microalloyed HSLA steels containing Mo and W with various coiling temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 560, 528-534.	2.6	110
10	Nanomechanical behavior and structural stability of a nanocrystalline CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. <i>Journal of Materials Research</i> , 2015, 30, 2804-2815.	1.2	101
11	The role of hydrogen in hardening/softening steel: Influence of the charging process. <i>Scripta Materialia</i> , 2015, 107, 46-49.	2.6	99
12	Estimation of the shear transformation zone size in a bulk metallic glass through statistical analysis of the first pop-in stresses during spherical nanoindentation. <i>Scripta Materialia</i> , 2012, 66, 923-926.	2.6	92
13	Microstructure and mechanical properties of friction stir welded and laser welded high entropy alloy CrMnFeCoNi. <i>Metals and Materials International</i> , 2018, 24, 73-83.	1.8	84
14	Inoculated acicular ferrite microstructure and mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 319-321, 326-331.	2.6	82
15	Development of lightweight Mg Li Al alloys with high specific strength. <i>Journal of Alloys and Compounds</i> , 2016, 680, 116-120.	2.8	82
16	Effect of die shape on the deformation behavior in equal-channel angular pressing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001, 32, 3007-3014.	1.1	77
17	Fracture toughness and crack-resistance curve behavior in metallic glass-matrix composites. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	64
18	Annealing effect on plastic flow in nanocrystalline CoCrFeMnNi high-entropy alloy: A nanomechanical analysis. <i>Acta Materialia</i> , 2017, 140, 443-451.	3.8	61

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19	Molecular dynamics simulation of the crystallization of a liquid gold nanoparticle. Journal of Crystal Growth, 2003, 250, 558-564.	0.7	52
20	Correlation between fracture surface morphology and toughness in Zr-based bulk metallic glasses. Journal of Materials Research, 2010, 25, 982-990.	1.2	52
21	Influence of Zr content on phase formation, transition and mechanical behavior of Ni-Ti-Hf-Zr high temperature shape memory alloys. Journal of Alloys and Compounds, 2017, 692, 77-85.	2.8	52
22	Fracture toughness study of new Zr-based Be-bearing bulk metallic glasses. Scripta Materialia, 2009, 60, 80-83.	2.6	50
23	High-temperature creep behavior and microstructural evolution of an 18Cr9Ni3CuNbVN austenitic stainless steel. Materials Characterization, 2014, 93, 52-61.	1.9	50
24	Glassy steel optimized for glass-forming ability and toughness. Applied Physics Letters, 2009, 95, .	1.5	49
25	Structural evolution of a strip-cast Al alloy sheet processed by continuous equal-channel angular pressing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 665-673.	1.1	48
26	Enhanced Desorption and Absorption Properties of Eutectic $\text{LiBH}_4\text{-Ca}(\text{BH}_4)_2$ Infiltrated into Mesoporous Carbon. Journal of Physical Chemistry C, 2011, 115, 20027-20035.	1.5	48
27	High-temperature tensile and creep deformation of cross-weld specimens of weld joint between T92 martensitic and Super304H austenitic steels. Materials Characterization, 2014, 97, 161-168.	1.9	47
28	Effective thermal conductivity of $\text{MgH}_2$ compacts containing expanded natural graphite under a hydrogen atmosphere. International Journal of Hydrogen Energy, 2014, 39, 349-355.	3.8	47
29	Micro-to-nano-scale deformation mechanisms of a bimodal ultrafine eutectic composite. Scientific Reports, 2014, 4, 6500.	1.6	46
30	Gradual martensitic transformation of B2 phase on TiCu-based bulk metallic glass composite during deformation. Intermetallics, 2016, 75, 1-7.	1.8	45
31	Deformation mechanisms and texture evolution in high entropy alloy during cold rolling. International Journal of Plasticity, 2021, 141, 102989.	4.1	45
32	Metal halide doped metal borohydrides for hydrogen storage: The case of $\text{Ca}(\text{BH}_4)_2\text{-CaX}_2$ (X=F, Cl) mixture. Journal of Alloys and Compounds, 2010, 506, 721-727.	2.8	44
33	Numerical simulation of long-term precipitate evolution in austenitic heat-resistant steels. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2010, 34, 105-112.	0.7	44
34	Effect of aging treatment on microstructure and intrinsic mechanical behavior of $\text{Fe-31.4Mn-11.4Al-0.89C}$ lightweight steel. Journal of Alloys and Compounds, 2016, 656, 805-811.	2.8	44
35	New processing possibilities for highly toughened metallic glass matrix composites with tensile ductility. Scripta Materialia, 2008, 59, 684-687.	2.6	41
36	Influence of pre-strain on the gaseous hydrogen embrittlement resistance of a high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 718, 43-47.	2.6	41

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37	Influences of hydrogen charging method on the hydrogen distribution and nanomechanical properties of face-centered cubic high-entropy alloy: A comparative study. <i>Scripta Materialia</i> , 2019, 168, 76-80.	2.6	39
38	Work-hardening and plastic deformation behavior of Ti-based bulk metallic glass composites with bimodal sized B2 particles. <i>Intermetallics</i> , 2015, 62, 36-42.	1.8	38
39	Nano-graining a particle-strengthened high-entropy alloy. <i>Scripta Materialia</i> , 2019, 163, 24-28.	2.6	38
40	Enhancing the Hydrogen Storage Properties of AxBy Intermetallic Compounds by Partial Substitution: A Short Review. <i>Hydrogen</i> , 2020, 1, 38-63.	1.7	38
41	Effect of hydrogen on the yielding behavior and shear transformation zone volume in metallic glass ribbons. <i>Acta Materialia</i> , 2014, 78, 213-221.	3.8	36
42	Evaluation of formability and planar anisotropy based on textures in aluminum alloys processed by a shear deforming process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 477, 107-120.	2.6	35
43	Rehydrogenation and cycle studies of LiBH <sub>4</sub> -CaH <sub>2</sub> composite. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6578-6582.	3.8	35
44	Hydrogen-induced nanohardness variations in a CoCrFeMnNi high-entropy alloy. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 12015-12021.	3.8	35
45	Effect of post-weld heat treatment on the microstructure and hardness of P92 steel in IN740H/P92 dissimilar weld joints. <i>Materials Characterization</i> , 2020, 160, 110083.	1.9	35
46	Effect of deformation histories on texture evolution during equal- and dissimilar-channel angular pressing. <i>Scripta Materialia</i> , 2003, 49, 185-190.	2.6	34
47	Metastable hexagonal close-packed palladium hydride in liquid cell TEM. <i>Nature</i> , 2022, 603, 631-636.	13.7	31
48	Hydrogen-induced hardening and softening of Ni-Nb-Zr amorphous alloys: Dependence on the Zr content. <i>Scripta Materialia</i> , 2014, 93, 56-59.	2.6	30
49	Unraveling the origin of strain-induced precipitation of M <sub>23</sub> C <sub>6</sub> in the plastically deformed 347 Austenite stainless steel. <i>Materials Characterization</i> , 2014, 94, 7-13.	1.9	30
50	Influence of hydrogen on incipient plasticity in CoCrFeMnNi high-entropy alloy. <i>Scripta Materialia</i> , 2019, 161, 23-27.	2.6	30
51	Development of nano-crystalline cold sprayed Ni-20Cr coatings for high temperature oxidation resistance. <i>Surface and Coatings Technology</i> , 2015, 266, 122-133.	2.2	29
52	Magnesium- and intermetallic alloys-based hydrides for energy storage: modelling, synthesis and properties. <i>Progress in Energy</i> , 2022, 4, 032007.	4.6	29
53	Kinetics and thermodynamics of near eutectic Mg-Mg <sub>2</sub> Ni composites produced by casting process. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 29009-29022.	3.8	28
54	Combinatorial Influence of Bimodal Size of B2 TiCu Compounds on Plasticity of Ti-Cu-Ni-Zr-Sn-Si Bulk Metallic Glass Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 2376-2381.	1.1	27

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55	Microstructural evolution and creep-rupture life estimation of high-Cr martensitic heat-resistant steels. <i>Materials Characterization</i> , 2015, 106, 266-272.	1.9	27
56	Role of alloying elements in vanadium-based binary alloy membranes for hydrogen separation. <i>Journal of Membrane Science</i> , 2012, 423-424, 332-341.	4.1	26
57	Role of Hydrogen and Temperature in Hydrogen Embrittlement of Equimolar CoCrFeMnNi High-entropy Alloy. <i>Metals and Materials International</i> , 2021, 27, 166-174.	1.8	26
58	Direct measurement of hydrogen diffusivity through Pd-coated Ni-based amorphous metallic membranes. <i>Journal of Membrane Science</i> , 2013, 436, 195-201.	4.1	25
59	Hydrogen embrittlement in high interstitial alloyed 18Cr10Mn austenitic stainless steels. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 13635-13642.	3.8	25
60	Enhanced high temperature hydrogen permeation characteristics of Vâ€“Ni alloy membranes containing a trace amount of yttrium. <i>Scripta Materialia</i> , 2016, 116, 122-126.	2.6	25
61	Hydrogen Back-Pressure Effects on the Dehydrogenation Reactions of Ca(BH <sub>4</sub> ) <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2012, 116, 25715-25720.	1.5	24
62	Prediction of hydrogen permeability in Vâ€“Al and Vâ€“Ni alloys. <i>Journal of Membrane Science</i> , 2013, 430, 234-241.	4.1	24
63	Development of high strength hot rolled low carbon copper-bearing steel containing nanometer sized carbides. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 633, 1-8.	2.6	24
64	Influence of microstructural evolution on mechanical behavior of Feâ€“Nbâ€“B ultrafine composites with a correlation to elastic modulus and hardness. <i>Journal of Alloys and Compounds</i> , 2015, 647, 886-891.	2.8	24
65	Deformation mechanisms to ameliorate the mechanical properties of novel TRIP/TWIP Co-Cr-Mo-(Cu) ultrafine eutectic alloys. <i>Scientific Reports</i> , 2017, 7, 39959.	1.6	24
66	Chemical heterogeneity-induced plasticity in Tiâ€“Feâ€“Bi ultrafine eutectic alloys. <i>Materials &amp; Design</i> , 2014, 60, 363-367.	5.1	23
67	Tailoring the equilibrium hydrogen pressure of TiFe via vanadium substitution. <i>Journal of Alloys and Compounds</i> , 2021, 854, 157263.	2.8	23
68	Effect of Cr addition on room temperature hydrogenation of TiFe alloys. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 19478-19485.	3.8	23
69	Effect of Nb addition on Z-phase formation and creep strength in high-Cr martensitic heat-resistant steels. <i>Materials Characterization</i> , 2015, 102, 79-84.	1.9	22
70	Synthesis of Mg <sub>2</sub> FeH <sub>6</sub> by hydrogenation of Mg/Fe powder mixture prepared by cold roll milling in air: Effects of microstructure and oxygen distribution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 16758-16765.	3.8	22
71	Effect of gaseous hydrogen embrittlement on the mechanical properties of additively manufactured CrMnFeCoNi high-entropy alloy strengthened by in-situ formed oxide. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 796, 140039.	2.6	22
72	Hydrogen storage behavior and microstructural feature of a TiFeâ€“ZrCr <sub>2</sub> alloy. <i>Journal of Alloys and Compounds</i> , 2021, 853, 157099.	2.8	22

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73	Low temperature formation of Mg <sub>2</sub> FeH <sub>6</sub> by hydrogenation of ball-milled nano-crystalline powder mixture of Mg and Fe. <i>Materials and Design</i> , 2017, 135, 239-245.	3.3	21
74	An investigation of the microstructural effects on the mechanical and electrochemical properties of a friction stir processed equiatomic CrMnFeCoNi high entropy alloy. <i>Journal of Materials Science and Technology</i> , 2021, 87, 60-73.	5.6	21
75	Effect of vanadium addition on the creep resistance of 18Cr9Ni3CuNbN austenitic stainless heat resistant steel. <i>Journal of Alloys and Compounds</i> , 2013, 574, 532-538.	2.8	20
76	Long-term evolution of $\gamma'$ phase in 304H austenitic stainless steel: Experimental and computational investigation. <i>Materials Characterization</i> , 2017, 128, 23-29.	1.9	20
77	Low-temperature tensile and impact properties of hydrogen-charged high-manganese steel. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7000-7013.	3.8	20
78	Hydrogen uptake and its influence in selective laser melted austenitic stainless steel: A nanoindentation study. <i>Scripta Materialia</i> , 2021, 194, 113718.	2.6	20
79	Activation of Ti-Fe-Cr alloys containing identical AB <sub>2</sub> fractions. <i>Journal of Alloys and Compounds</i> , 2021, 864, 158876.	2.8	20
80	On the Formation and the Structure of the First Bimetallic Borohydride Borate, LiCa <sub>3</sub> (BH <sub>4</sub> ) <sub>4</sub> (BO <sub>3</sub> ) <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2011, 115, 10298-10304.	1.5	19
81	Thermodynamics of the dehydrogenation of the LiBH <sub>4</sub> -YH <sub>3</sub> composite: Experimental and theoretical studies. <i>Journal of Alloys and Compounds</i> , 2012, 510, L9-L12.	2.8	19
82	Design of sustainable V-based hydrogen separation membranes based on grain boundary segregation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 12031-12044.	3.8	19
83	Effect of Ca addition on the plastic deformation behavior of extruded Mg-11Li-3Al-1Sn-0.4Mn alloy. <i>Journal of Alloys and Compounds</i> , 2016, 687, 821-826.	2.8	19
84	Improved Creep Behavior of a High Nitrogen Nb-Stabilized 15Cr-15Ni Austenitic Stainless Steel Strengthened by Multiple Nanoprecipitates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 3378-3385.	1.1	16
85	Hydrogen permeation characteristics of rolled V85Al10Co5 alloys. <i>Current Applied Physics</i> , 2012, 12, 1131-1138.	1.1	15
86	Effect of preexisting plastic deformation on the creep behavior of TP347 austenitic steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 654, 390-399.	2.6	15
87	Understanding first cycle hydrogenation properties of Ti-Fe-Zr ternary alloys. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4241-4251.	3.8	15
88	Effects of the deformation history and the initial textures on the texture evolution in an Al alloy strip during the shear deforming process. <i>Acta Materialia</i> , 2004, 52, 4907-4918.	3.8	14
89	Nanoscale light element identification using machine learning aided STEM-EDS. <i>Scientific Reports</i> , 2020, 10, 13699.	1.6	14
90	High temperature tensile and creep properties of CrMnFeCoNi and CrFeCoNi high-entropy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 838, 142748.	2.6	14

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91	Analysis on the phase transition behavior of Cu base bulk metallic glass by electrical resistivity measurement. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 449-451, 521-525.	2.6	13
92	The role of Fe particle size and oxide distribution on the hydrogenation properties of ball-milled nano-crystalline powder mixtures of Fe and Mg. <i>Journal of Alloys and Compounds</i> , 2019, 806, 1039-1046.	2.8	13
93	Hydrogen-induced decomposition of Cu-Zr binary amorphous metallic alloys. <i>Journal of Alloys and Compounds</i> , 2016, 660, 456-460.	2.8	12
94	Tensile and fracture behaviors of austenitic high-manganese steels subject to different hydrogen embrittlement test methods. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 766, 138367.	2.6	12
95	Exploring the hydrogen absorption and strengthening behavior in nanocrystalline face-centered cubic high-entropy alloys. <i>Scripta Materialia</i> , 2021, 203, 114069.	2.6	12
96	Novel thermoplastic bonding using a bulk metallic glass solder. <i>Scripta Materialia</i> , 2008, 59, 905-908.	2.6	11
97	Effect of Nb and Cu on the high temperature creep properties of a high Mn-N austenitic stainless steel. <i>Materials Characterization</i> , 2013, 83, 49-57.	1.9	11
98	Hydrogen-induced softening in nanocrystalline Ni investigated by nanoindentation. <i>Philosophical Magazine</i> , 2016, 96, 3442-3450.	0.7	11
99	Influence of Nb on microstructure and mechanical properties of Ti-Sn ultrafine eutectic alloy. <i>Metals and Materials International</i> , 2017, 23, 20-25.	1.8	11
100	A finite outlet volume correction to the time lag method: The case of hydrogen permeation through V-alloy and Pd membranes. <i>Journal of Membrane Science</i> , 2019, 585, 253-259.	4.1	11
101	Comparative Study of Hydrogen Embrittlement of Three Heat-resistant Cr-Mo Steels Subjected to Electrochemical and Gaseous Hydrogen Charging. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 2118-2125.	1.1	11
102	Effect of creep deformation on the microstructural evolution of 11CrMoVNb heat resistant steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 536, 92-97.	2.6	10
103	Atomistic simulation of hydrogen diffusion at tilt grain boundaries in vanadium. <i>Metals and Materials International</i> , 2013, 19, 1221-1225.	1.8	10
104	Properties of a rare earth free L10-FeNi hard magnet developed through annealing of FeNiPC amorphous ribbons. <i>Current Applied Physics</i> , 2019, 19, 599-605.	1.1	10
105	On the long-term cyclic stability of near-eutectic Mg-Mg <sub>2</sub> Ni alloys. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 3939-3947.	3.8	10
106	CALPHAD-based alloy design for advanced automotive steels - Part I: Development of bearing steels with enhanced strength and optimized microstructure. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2016, 54, 165-171.	0.7	9
107	Flaw-Containing Alumina Hollow Nanostructures Have Ultrahigh Fracture Strength To Be Incorporated into High-Efficiency GaN Light-Emitting Diodes. <i>Nano Letters</i> , 2018, 18, 1323-1330.	4.5	9
108	Formation of needle-like MC carbide at or near incoherent twin boundary in IN740H Ni-based superalloy. <i>Journal of Alloys and Compounds</i> , 2020, 813, 152222.	2.8	9



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109	Microstructural evolution of P92 steel in IN740H/P92 dissimilar weld joints during creep deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 821, 141614.	2.6	9
110	Deciphering the role of multiple generations of annealing twins on texture evolution in cold-rolled high entropy alloys during annealing. <i>Scripta Materialia</i> , 2021, 205, 114221.	2.6	9
111	Controlling the textures of the Al alloy sheet via dissimilar channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 394, 60-65.	2.6	8
112	Hydrogen permeability of glass-forming Ni-Nb-Zr-Ta crystalline membranes. <i>Metals and Materials International</i> , 2011, 17, 541-545.	1.8	8
113	Nanometer-scale phase separation and formation of delta ZrH <sub>2</sub> in Cu-Zr binary amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2017, 721, 646-652.	2.8	8
114	Determining the effect of added zirconium on the bond character in TiFe alloys using scanning Kelvin probe force microscopy. <i>Applied Surface Science</i> , 2020, 517, 146163.	3.1	8
115	Heterogeneities in the microstructure and mechanical properties of high-Cr martensitic stainless steel produced by repetitive hot roll bonding. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 801, 140416.	2.6	8
116	Hydrogen occupation in Ti <sub>4</sub> M <sub>2</sub> O compounds (M = Fe, Co, Ni, Cu, and $\gamma = \bar{A}0, 1$ ) and their hydrogen storage characteristics. <i>Journal of Alloys and Compounds</i> , 2022, 891, 162050.	2.8	8
117	Self-healing behavior of Inconel 617B superalloy. <i>Journal of Alloys and Compounds</i> , 2019, 805, 1217-1223.	2.8	7
118	Nanomechanical and microstructural characterization on the synergetic strengthening in selectively laser melted austenitic stainless steel. <i>Scripta Materialia</i> , 2022, 209, 114359.	2.6	7
119	Micro-forming and surface evaluation of Zr <sub>41</sub> Ti <sub>14</sub> Cu <sub>12.5</sub> Ni <sub>10</sub> Be <sub>22.5</sub> bulk metallic glass. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 454-455, 14-18.	2.6	6
120	Further evidence for room temperature, indentation-induced nanocrystallization in a bulk metallic glass. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 545, 225-228.	2.6	6
121	Magnetically soft FeCoTiZrB alloys with high saturation magnetization. <i>Intermetallics</i> , 2017, 90, 164-168.	1.8	6
122	Electrically Assisted Solid-State Joining of CrMnFeCoNi High-Entropy Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 6142-6148.	1.1	6
123	Design of V-Substituted TiFe-Based Alloy for Target Pressure Range and Easy Activation. <i>Materials</i> , 2021, 14, 4829.	1.3	6
124	Prediction of elastic properties of precipitation-hardened aluminum cast alloys. <i>Computational Materials Science</i> , 2012, 51, 365-371.	1.4	5
125	Mechanism for H-shaped precipitate formation in 1.25Cr-0.5Mo steel. <i>Materials Characterization</i> , 2020, 163, 110314.	1.9	5
126	Effect of Co on the degradation of the hydrogen permeability of Ni-Nb-Zr amorphous membranes. <i>Metals and Materials International</i> , 2014, 20, 215-219.	1.8	4



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127	<i>In Situ</i> Scanning Electron Microscopy Analysis of the Interfacial Failure of Oxide Scales on Stainless Steels and Its Effect on Sticking during Hot Rolling. ACS Omega, 2022, 7, 15174-15185.	1.6	4
128	Influence of Hydrogen Absorption on Stacking Fault of Energy of a Face-Centered Cubic High Entropy Alloy. Metals and Materials International, 2022, 28, 2637-2645.	1.8	4
129	A semi-empirical methodology to predict hydrogen permeability in amorphous alloy membranes. Journal of Membrane Science, 2014, 472, 102-109.	4.1	3
130	Reassessing the atomic size effect on glass forming ability: Effect of atomic size difference on thermodynamics and kinetics. Intermetallics, 2016, 69, 123-127.	1.8	3
131	EBSD microstructural analysis of AB-type TiFe hydrogen storage alloys. Materials Characterization, 2021, 178, 111276.	1.9	3
132	Orientation Rotation Behavior in Aluminum Alloys during Dissimilar Channel Angular Pressing. Materials Transactions, 2004, 45, 125-130.	0.4	2
133	Hydrogen Permeation Properties of Pd-Coated Ni <sub>37.5</sub> Nb <sub>27.5</sub> Zr <sub>25</sub> Co <sub>5</sub> Ta <sub>5</sub> Amorphous Membrane. Materials Science Forum, 2010, 654-656, 2823-2826.	0.3	2
134	Phase transformation and mechanical properties of as-cast Ti <sub>41.5</sub> Zr <sub>41.5</sub> Ni <sub>17</sub> quasicrystalline composites. Journal of Non-Crystalline Solids, 2014, 392-393, 6-10.	1.5	2
135	Enhancement of mechanical properties in a Fe <sub>81</sub> Nb <sub>9</sub> B <sub>10</sub> ultrafine-eutectic composite with in-situ polygonal pro-eutectic and encapsulating eutectic structure. Journal of Alloys and Compounds, 2015, 643, S204-S208.	2.8	2
136	Effect of Thermal Charging of Hydrogen on the Microstructure of Metastable Austenitic Stainless Steel. Steel Research International, 2017, 88, 1600063.	1.0	2
137	Hydrogen-induced change in microstructure and properties of steels: 18Cr10Mn-0.4N vs 18Cr10Ni. Materials Science and Technology, 2018, 34, 584-586.	0.8	2
138	Microstructural Analysis of Dehydrogenation Products of the Ca(BH <sub>4</sub> ) <sub>2</sub> -MgH <sub>2</sub> Composite. Microscopy and Microanalysis, 2013, 19, 149-151.	0.2	1
139	Phase dependent magnetic properties of Ni-Au alloy nanowires. Materials Letters, 2014, 116, 86-90.	1.3	1
140	Structural homogeneity and mass density of bulk metallic glasses revealed by their rough surfaces and ultra-small angle neutron scattering (USANS). Scientific Reports, 2018, 8, 12986.	1.6	1
141	Microstructural investigation on the failure in APMT/KHR45A dissimilar weld interface after long-term service at high temperature. Materials Characterization, 2021, 176, 111110.	1.9	1
142	Processing Map for Zr-based In-situ $\beta$ Phase Composites. Materials Research Society Symposia Proceedings, 2007, 1048, 5.	0.1	0
143	Fracture Toughness Study on Zr-based Bulk Metallic Glasses. Materials Research Society Symposia Proceedings, 2007, 1048, 4.	0.1	0
144	Thermodynamics and sorption reaction of some light metal borohydrides for reversible hydrogen storage. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
145	Hydrogen permeation properties of in-situ Ti-based bulk metallic glass matrix composite membranes. , 2011, , .		0
146	Unusual flow behavior of Fe-based soft magnetic amorphous ribbons under high temperature tensile loading. Current Applied Physics, 2018, 18, 411-416.	1.1	0
147	Enhanced Hard-magnetic Properties of Rare Earth-free L1<sub>0</sub>-FeNi Phase in FeNiPC Alloys. Journal of Magnetism, 2021, 26, 394-400.	0.2	0