

Jin-Yoo Suh

List of Publications by Year in descending order

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147
papers

6,000
citations

94269

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82410

72
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147
all docs

147
docs citations

147
times ranked

4125
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen occupation in Ti ₄ M ₂ O compounds (M = Fe, Co, Ni, Cu, and $\gamma = 1$) and their hydrogen storage characteristics. <i>Journal of Alloys and Compounds</i> , 2022, 891, 162050.	2.8	8
2	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
3	On the long-term cyclic stability of near-eutectic Mg–Mg ₂ Ni alloys. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 3939-3947.	3.8	10
4	High temperature tensile and creep properties of CrMnFeCoNi and CrFeCoNi high-entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 838, 142748.	2.6	14
5	Metastable hexagonal close-packed palladium hydride in liquid cell TEM. <i>Nature</i> , 2022, 603, 631-636.	13.7	31
6	<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. <i>ACS Omega</i> , 2022, 7, 15174-15185.	1.6	4
7	Influence of Hydrogen Absorption on Stacking Fault of Energy of a Face-Centered Cubic High Entropy Alloy. <i>Metals and Materials International</i> , 2022, 28, 2637-2645.	1.8	4
8	Magnesium- and intermetallic alloys-based hydrides for energy storage: modelling, synthesis and properties. <i>Progress in Energy</i> , 2022, 4, 032007.	4.6	29
9	Tailoring the equilibrium hydrogen pressure of TiFe via vanadium substitution. <i>Journal of Alloys and Compounds</i> , 2021, 854, 157263.	2.8	23
10	Hydrogen storage behavior and microstructural feature of a TiFe–ZrCr ₂ alloy. <i>Journal of Alloys and Compounds</i> , 2021, 853, 157099.	2.8	22
11	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
12	Heterogeneities in the microstructure and mechanical properties of high-Cr martensitic stainless steel produced by repetitive hot roll bonding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 801, 140416.	2.6	8
13	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
14	Activation of Ti–Fe–Cr alloys containing identical AB ₂ fractions. <i>Journal of Alloys and Compounds</i> , 2021, 864, 158876.	2.8	20
15	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
16	Deformation mechanisms and texture evolution in high entropy alloy during cold rolling. <i>International Journal of Plasticity</i> , 2021, 141, 102989.	4.1	45
17	Microstructural investigation on the failure in APMT/KHR45A dissimilar weld interface after long-term service at high temperature. <i>Materials Characterization</i> , 2021, 176, 111110.	1.9	1
18	Microstructural evolution of P92 steel in IN740H/P92 dissimilar weld joints during creep deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 821, 141614.	2.6	9

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19	EBSD microstructural analysis of AB-type TiFe hydrogen storage alloys. <i>Materials Characterization</i> , 2021, 178, 111276.	1.9	3
20	Design of V-Substituted TiFe-Based Alloy for Target Pressure Range and Easy Activation. <i>Materials</i> , 2021, 14, 4829.	1.3	6
21	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
22	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
23	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
24	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
25	Enhanced Hard-magnetic Properties of Rare Earth-free L1 ₀ -FeNi Phase in FeNiPC Alloys. <i>Journal of Magnetism</i> , 2021, 26, 394-400.	0.2	0
26	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
27	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
28	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 & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 796, 140039.	2.6	22
29	Kinetics and thermodynamics of near eutectic Mg-Mg ₂ Ni composites produced by casting process. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 29009-29022.	3.8	28
30	Nanoscale light element identification using machine learning aided STEM-EDS. <i>Scientific Reports</i> , 2020, 10, 13699.	1.6	14
31	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
32	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
33	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
34	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
35	Mechanism for H-shaped precipitate formation in 1.25Cr-0.5Mo steel. <i>Materials Characterization</i> , 2020, 163, 110314.	1.9	5
36	Self-healing behavior of Inconel 617B superalloy. <i>Journal of Alloys and Compounds</i> , 2019, 805, 1217-1223.	2.8	7

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37	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
38	Tensile and fracture behaviors of austenitic high-manganese steels subject to different hydrogen embrittlement test methods. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 766, 138367.	2.6	12
39	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
40	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
41	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
42	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
43	Nano-graining a particle-strengthened high-entropy alloy. <i>Scripta Materialia</i> , 2019, 163, 24-28.	2.6	38
44	Influence of hydrogen on incipient plasticity in CoCrFeMnNi high-entropy alloy. <i>Scripta Materialia</i> , 2019, 161, 23-27.	2.6	30
45	Synthesis of Mg ₂ FeH ₆ 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
46	Unusual flow behavior of Fe-based soft magnetic amorphous ribbons under high temperature tensile loading. <i>Current Applied Physics</i> , 2018, 18, 411-416.	1.1	0
47	Influence of pre-strain on the gaseous hydrogen embrittlement resistance of a high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 718, 43-47.	2.6	41
48	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
49	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
50	Hydrogen-induced change in microstructure and properties of steels: 18Cr10Mn~0.4N vis-À-vis 18Cr10Ni. <i>Materials Science and Technology</i> , 2018, 34, 584-586.	0.8	2
51	Structural homogeneity and mass density of bulk metallic glasses revealed by their rough surfaces and ultra-small angle neutron scattering (USANS). <i>Scientific Reports</i> , 2018, 8, 12986.	1.6	1
52	Effect of Thermal Charging of Hydrogen on the Microstructure of Metastable Austenitic Stainless Steel. <i>Steel Research International</i> , 2017, 88, 1600063.	1.0	2
53	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
54	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

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55	Resistance of CoCrFeMnNi high-entropy alloy to gaseous hydrogen embrittlement. <i>Scripta Materialia</i> , 2017, 135, 54-58.	2.6	166
56	Hydrogen-induced nanohardness variations in a CoCrFeMnNi high-entropy alloy. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 12015-12021.	3.8	35
57	Long-term evolution of γ' phase in 304H austenitic stainless steel: Experimental and computational investigation. <i>Materials Characterization</i> , 2017, 128, 23-29.	1.9	20
58	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
59	Magnetically soft FeCoTiZrB alloys with high saturation magnetization. <i>Intermetallics</i> , 2017, 90, 164-168.	1.8	6
60	Low temperature formation of Mg ₂ FeH ₆ 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
61	Nanometer-scale phase separation and formation of δ ZrH ₂ in Cu-Zr binary amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2017, 721, 646-652.	2.8	8
62	Influence of Zr content on phase formation, transition and mechanical behavior of Ni-Ti-Hf-Zr high temperature shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2017, 692, 77-85.	2.8	52
63	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
64	Hydrogen-induced softening in nanocrystalline Ni investigated by nanoindentation. <i>Philosophical Magazine</i> , 2016, 96, 3442-3450.	0.7	11
65	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
66	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
67	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
68	Effect of preexisting plastic deformation on the creep behavior of TP347 austenitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 654, 390-399.	2.6	15
69	Gradual martensitic transformation of B ₂ phase on TiCu-based bulk metallic glass composite during deformation. <i>Intermetallics</i> , 2016, 75, 1-7.	1.8	45
70	Hydrogen-induced decomposition of Cuâ€“Zr binary amorphous metallic alloys. <i>Journal of Alloys and Compounds</i> , 2016, 660, 456-460.	2.8	12
71	Spherical nanoindentation creep behavior of nanocrystalline and coarse-grained CoCrFeMnNi high-entropy alloys. <i>Acta Materialia</i> , 2016, 109, 314-322.	3.8	156
72	Reassessing the atomic size effect on glass forming ability: Effect of atomic size difference on thermodynamics and kinetics. <i>Intermetallics</i> , 2016, 69, 123-127.	1.8	3

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73	Effect of aging treatment on microstructure and intrinsic mechanical behavior of Fe-31.4Mn-11.4Al-0.89C lightweight steel. <i>Journal of Alloys and Compounds</i> , 2016, 656, 805-811.	2.8	44
74	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
75	The role of hydrogen in hardening/softening steel: Influence of the charging process. <i>Scripta Materialia</i> , 2015, 107, 46-49.	2.6	99
76	Enhancement of mechanical properties in a Fe81Nb9B10 ultrafine-eutectic composite with in-situ polygonal pro-eutectic and encapsulating eutectic structure. <i>Journal of Alloys and Compounds</i> , 2015, 643, S204-S208.	2.8	2
77	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
78	Development of high strength hot rolled low carbon copper-bearing steel containing nanometer sized carbides. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 633, 1-8.	2.6	24
79	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
80	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
81	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
82	Hydrogen embrittlement in high interstitial alloyed 18Cr10Mn austenitic stainless steels. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 13635-13642.	3.8	25
83	Influence of microstructural evolution on mechanical behavior of Fe-Nb-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
84	Chemical heterogeneity-induced plasticity in Ti-Fe-Bi ultrafine eutectic alloys. <i>Materials & Design</i> , 2014, 60, 363-367.	5.1	23
85	Phase dependent magnetic properties of Ni-Au alloy nanowires. <i>Materials Letters</i> , 2014, 116, 86-90.	1.3	1
86	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
87	A semi-empirical methodology to predict hydrogen permeability in amorphous alloy membranes. <i>Journal of Membrane Science</i> , 2014, 472, 102-109.	4.1	3
88	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
89	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
90	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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91	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
92	High-temperature tensile and creep deformation of cross-weld specimens of weld joint between T92 martensitic and Super304H austenitic steels. <i>Materials Characterization</i> , 2014, 97, 161-168.	1.9	47
93	High-temperature creep behavior and microstructural evolution of an 18Cr9Ni3CuNbVN austenitic stainless steel. <i>Materials Characterization</i> , 2014, 93, 52-61.	1.9	50
94	Unraveling the origin of strain-induced precipitation of M ₂₃ C ₆ in the plastically deformed 347 Austenite stainless steel. <i>Materials Characterization</i> , 2014, 94, 7-13.	1.9	30
95	Phase transformation and mechanical properties of as-cast Ti _{41.5} Zr _{41.5} Ni ₁₇ quasicrystalline composites. <i>Journal of Non-Crystalline Solids</i> , 2014, 392-393, 6-10.	1.5	2
96	Effective thermal conductivity of MgH ₂ compacts containing expanded natural graphite under a hydrogen atmosphere. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 349-355.	3.8	47
97	Micro-to-nano-scale deformation mechanisms of a bimodal ultrafine eutectic composite. <i>Scientific Reports</i> , 2014, 4, 6500.	1.6	46
98	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
99	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
100	Strengthening mechanism of hot rolled Ti and Nb microalloyed HSLA steels containing Mo and W with various coiling temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 560, 528-534.	2.6	110
101	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
102	Prediction of hydrogen permeability in Al and Ni alloys. <i>Journal of Membrane Science</i> , 2013, 430, 234-241.	4.1	24
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	Microstructural Analysis of Dehydrogenation Products of the Ca(BH ₄) ₂ -MgH ₂ Composite. <i>Microscopy and Microanalysis</i> , 2013, 19, 149-151.	0.2	1
105	Hydrogen Back-Pressure Effects on the Dehydrogenation Reactions of Ca(BH ₄) ₂ . <i>Journal of Physical Chemistry C</i> , 2012, 116, 25715-25720.	1.5	24
106	Thermodynamics of the dehydrogenation of the LiBH ₄ -YH ₃ composite: Experimental and theoretical studies. <i>Journal of Alloys and Compounds</i> , 2012, 510, L9-L12.	2.8	19
107	Prediction of elastic properties of precipitation-hardened aluminum cast alloys. <i>Computational Materials Science</i> , 2012, 51, 365-371.	1.4	5
108	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

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109	Role of alloying elements in vanadium-based binary alloy membranes for hydrogen separation. Journal of Membrane Science, 2012, 423-424, 332-341.	4.1	26
110	Hydrogen permeation characteristics of rolled V85Al10Co5 alloys. Current Applied Physics, 2012, 12, 1131-1138.	1.1	15
111	Estimation of the shear transformation zone size in a bulk metallic glass through statistical analysis of the first pop-in stresses during spherical nanoindentation. Scripta Materialia, 2012, 66, 923-926.	2.6	92
112	Effect of creep deformation on the microstructural evolution of 11CrMoVNb heat resistant steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 536, 92-97.	2.6	10
113	Further evidence for room temperature, indentation-induced nanocrystallization in a bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 545, 225-228.	2.6	6
114	Hydrogen permeation properties of in-situ Ti-based bulk metallic glass matrix composite membranes. , 2011, , .		0
115	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
116	On the Formation and the Structure of the First Bimetallic Borohydride Borate, $\text{LiCa}_3(\text{BH}_4)(\text{BO}_3)_2$. Journal of Physical Chemistry C, 2011, 115, 10298-10304.	1.5	19
117	Hydrogen permeability of glass-forming Ni-Nb-Zr-Ta crystalline membranes. Metals and Materials International, 2011, 17, 541-545.	1.8	8
118	Improved Creep Behavior of a High Nitrogen Nb-Stabilized 15Cr-15Ni Austenitic Stainless Steel Strengthened by Multiple Nanoprecipitates. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3378-3385.	1.1	16
119	Thermodynamics and sorption reaction of some light metal borohydrides for reversible hydrogen storage. , 2010, , .		0
120	Rehydrogenation and cycle studies of $\text{LiBH}_4\text{-CaH}_2$ composite. International Journal of Hydrogen Energy, 2010, 35, 6578-6582.	3.8	35
121	Correlation between fracture surface morphology and toughness in Zr-based bulk metallic glasses. Journal of Materials Research, 2010, 25, 982-990.	1.2	52
122	Hydrogen Permeation Properties of Pd-Coated $\text{Ni}_{37.5}\text{Nb}_{27.5}\text{Zr}_{25}\text{Co}_5\text{Ta}_5$ Amorphous Membrane. Materials Science Forum, 2010, 654-656, 2823-2826.	0.3	2
123	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
124	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
125	Glassy steel optimized for glass-forming ability and toughness. Applied Physics Letters, 2009, 95, .	1.5	49
126	Fracture toughness and crack-resistance curve behavior in metallic glass-matrix composites. Applied Physics Letters, 2009, 94, .	1.5	64

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127	Fracture toughness study of new Zr-based Be-bearing bulk metallic glasses. Scripta Materialia, 2009, 60, 80-83.	2.6	50
128	Evaluation of formability and planar anisotropy based on textures in aluminum alloys processed by a shear deforming process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 477, 107-120.	2.6	35
129	Designing metallic glass matrix composites with high toughness and tensile ductility. Nature, 2008, 451, 1085-1089.	13.7	1,302
130	New processing possibilities for highly toughened metallic glass matrix composites with tensile ductility. Scripta Materialia, 2008, 59, 684-687.	2.6	41
131	Novel thermoplastic bonding using a bulk metallic glass solder. Scripta Materialia, 2008, 59, 905-908.	2.6	11
132	Development of tough, low-density titanium-based bulk metallic glass matrix composites with tensile ductility. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20136-20140.	3.3	308
133	Processing Map for Zr-based In-situ β Phase Composites. Materials Research Society Symposia Proceedings, 2007, 1048, 5.	0.1	0
134	Fracture Toughness Study on Zr-based Bulk Metallic Glasses. Materials Research Society Symposia Proceedings, 2007, 1048, 4.	0.1	0
135	Micro-forming and surface evaluation of Zr ₄₁ Ti ₁₄ Cu _{12.5} Ni ₁₀ Be _{22.5} bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 454-455, 14-18.	2.6	6
136	Analysis on the phase transition behavior of Cu base bulk metallic glass by electrical resistivity measurement. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 521-525.	2.6	13
137	Controlling the textures of the Al alloy sheet via dissimilar channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 394, 60-65.	2.6	8
138	Effects of the deformation history and the initial textures on the texture evolution in an Al alloy strip during the shear deforming process. Acta Materialia, 2004, 52, 4907-4918.	3.8	14
139	Orientation Rotation Behavior in Aluminum Alloys during Dissimilar Channel Angular Pressing. Materials Transactions, 2004, 45, 125-130.	0.4	2
140	Effect of deformation histories on texture evolution during equal- and dissimilar-channel angular pressing. Scripta Materialia, 2003, 49, 185-190.	2.6	34
141	Molecular dynamics simulation of the crystallization of a liquid gold nanoparticle. Journal of Crystal Growth, 2003, 250, 558-564.	0.7	52
142	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
143	Microstructural evolutions of the Al strip prepared by cold rolling and continuous equal channel angular pressing. Acta Materialia, 2002, 50, 4005-4019.	3.8	189
144	Effect of die shape on the deformation behavior in equal-channel angular pressing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 3007-3014.	1.1	77

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145	Ferrite nucleation potency of non-metallic inclusions in medium carbon steels. Acta Materialia, 2001, 49, 2115-2122.	3.8	229
146	Inoculated acicular ferrite microstructure and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 319-321, 326-331.	2.6	82
147	Finite element analysis of material flow in equal channel angular pressing. Scripta Materialia, 2001, 44, 677-681.	2.6	122