

Jin-Shan Li

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Dry-sliding tribological properties of AlCoCrFeNiTi0.5 high-entropy alloy. <i>Rare Metals</i> , 2022, 41, 4266-4272.	7.1	7
2	Formation mechanism of β twins in β -solidified β -TiAl alloys. <i>Journal of Materials Science and Technology</i> , 2022, 105, 164-171.	10.7	14
3	Strengthening efficiency competition between carbon nanotubes (CNTs) and in-situ Al ₄ C ₃ nanorods in CNTs/Al composites influenced by alumina characteristics. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 152, 106704.	7.6	16
4	Design of metastable β -Ti alloys with enhanced mechanical properties by coupling β -S precipitation strengthening and TRIP effect. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 835, 142696.	5.6	17
5	Liquid state dependent solidification of a Co-B eutectic alloy under a high magnetic field. <i>Journal of Materials Science and Technology</i> , 2022, 116, 58-71.	10.7	3
6	Enhanced mechanical properties of a metastable β titanium alloy via optimized thermomechanical processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 840, 142997.	5.6	8
7	Remarkable cryogenic strengthening and toughening in nano-coherent CoCrFeNiTi0.2 high-entropy alloys via energetically-tuning polymorphous precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 842, 143111.	5.6	15
8	Heterogeneous precipitate microstructure in titanium alloys for simultaneous improvement of strength and ductility. <i>Journal of Materials Science and Technology</i> , 2022, 124, 150-163.	10.7	10
9	Precipitation Behavior and Microstructural Evolution of β Phase during Hot Deformation in a Novel β -Air-Cooled Metastable β -Type Ti-B12 Alloy. <i>Metals</i> , 2022, 12, 770.	2.3	2
10	Quasi-in-situ investigation on microstructure degradation of a fully lamellar TiAl alloy during creep. <i>Journal of Materials Research and Technology</i> , 2022, 18, 4980-4989.	5.8	7
11	Formation of core-shell structure in immiscible CoCrCuFe1.5Ni0.5 high-entropy alloy. <i>Materials Letters</i> , 2022, , 132452.	2.6	2
12	Revealing sulfur- and phosphorus-induced embrittlement and local structural phase transformation of superlattice intrinsic stacking faults in L12-Ni3Al. <i>Journal of Materials Science</i> , 2022, 57, 12483-12496.	3.7	4
13	Improved tensile properties of Al0.5CoCrFeNi high-entropy alloy by tailoring microstructures. <i>Rare Metals</i> , 2021, 40, 1-6.	7.1	41
14	Stress-induced β martensitic phase transformation and martensitic twinning in a metastable β titanium alloy. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157809.	5.5	16
15	Microstructural influences on the high cycle fatigue life dispersion and damage mechanism in a metastable β titanium alloy. <i>Journal of Materials Science and Technology</i> , 2021, 70, 12-23.	10.7	16
16	Microstructure and properties of AlCoCrCuFeNi high-entropy alloy solidified under high magnetic field. <i>Materials Letters</i> , 2021, 285, 129182.	2.6	10
17	The β precipitation from equiaxed β phase in as-cast Ti-44Al-4Nb-2Cr-0.1B alloy. <i>Materials Letters</i> , 2021, 284, 128978.	2.6	2
18	Integrating data mining and machine learning to discover high-strength ductile titanium alloys. <i>Acta Materialia</i> , 2021, 202, 211-221.	7.9	85

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19	The interplay relationship between phase transformation and deformation behavior during hot compression in a metastable β^2 titanium alloy. <i>Materials and Design</i> , 2021, 197, 109275.	7.0	14
20	Mechanical properties and microstructure of in situ formed Ti ₂ AlN/TiAl(WMS) composites. <i>Rare Metals</i> , 2021, 40, 190-194.	7.1	8
21	Thermal-Mechanical Processing and Strengthen in Al _x CoCrFeNi High-Entropy Alloys. <i>Frontiers in Materials</i> , 2021, 7, .	2.4	8
22	Solidification of Immiscible Alloys under High Magnetic Field: A Review. <i>Metals</i> , 2021, 11, 525.	2.3	6
23	Effect of High Strain Rate on Adiabatic Shearing of $\beta^1+\beta^2$ Dual-Phase Ti Alloy. <i>Materials</i> , 2021, 14, 2044.	2.9	3
24	Hot Deformation and Subsequent Annealing on the Microstructure and Hardness of an Al _{0.3} CoCrFeNi High-entropy Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 1527-1536.	2.9	17
25	Nanophase precipitation and strengthening in a dual-phase Al _{0.5} CoCrFeNi high-entropy alloy. <i>Journal of Materials Science and Technology</i> , 2021, 72, 1-7.	10.7	51
26	Quantitative evaluation of the lamellar kinking&rotation on the flow softening of β^3 -TiAl-based alloys at elevated temperatures. <i>Materials Letters</i> , 2021, 290, 129458.	2.6	11
27	Site Occupation and Structural Phase Transformation of the (010) Antiphase Boundary in Boron-Modified L1 ₂ Ni ₃ Al. <i>Jom</i> , 2021, 73, 2285-2292.	1.9	2
28	Crystallography and microstructure of the deformation bands formed in a metastable β^2 titanium alloy during isothermal compression. <i>Materials Characterization</i> , 2021, 176, 111119.	4.4	11
29	Electronic structures and properties of TiAl/Ti ₂ AlNb heterogeneous interfaces: A comprehensive first-principles study. <i>Intermetallics</i> , 2021, 133, 107173.	3.9	15
30	Experimental and simulation analysis of residual topography dominated deformation mechanism of nanoindentation: a case study of Inconel 625 superalloy. <i>Journal of Materials Research and Technology</i> , 2021, 13, 1521-1533.	5.8	10
31	Revealing the Local Microstates of Fe-Mn-Al Medium Entropy Alloy: A Comprehensive First-principles Study. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 1492-1502.	2.9	2
32	The Localized Corrosion and Stress Corrosion Cracking of a 6005A-T6 Extrusion Profile. <i>Materials</i> , 2021, 14, 4924.	2.9	1
33	Hot tensile behavior of a TiAl alloy with a ($\beta^2 + \beta^3$) microduplex microstructure prepared simply by heat treatments. <i>Journal of Alloys and Compounds</i> , 2021, 875, 160039.	5.5	8
34	Microstructural sensitivity and deformation micro-mechanisms of a bimodal metastable β^2 titanium Ti-7Mo-3Nb-3Cr-3Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 824, 141821.	5.6	10
35	Post-bonded compressive behavior and processing map of TiAl/Ti ₂ AlNb joint along the bonding interface based on a composite model. <i>Materials Chemistry and Physics</i> , 2021, 271, 124915.	4.0	1
36	Thermally-induced $\beta^1+\beta^2$ phase transformation interweaving with abnormal β^1 grain growth in hot extruded TNM alloy. <i>Journal of Materials Research and Technology</i> , 2021, 15, 2036-2044.	5.8	7

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37	Effects of an ultra-high magnetic field up to 25 T on the phase transformations of undercooled Co-B eutectic alloy. <i>Journal of Materials Science and Technology</i> , 2021, 93, 79-88.	10.7	6
38	Microstructure Characterization and Thermal Stability of TNM Alloy Fabricated by Powder Hot Isostatic Pressing. <i>Metals</i> , 2021, 11, 1720.	2.3	4
39	Experiments and crystal plasticity simulations for the deformation behavior of nanoindentation: Application to the β phase of TiAl alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 831, 142283.	5.6	6
40	Evolution of microstructure and hardness in a dual-phase Al _{0.5} CoCrFeNi high-entropy alloy with different grain sizes. <i>Rare Metals</i> , 2020, 39, 156-161.	7.1	25
41	The β phase transformation during the low temperature aging and low rate heating process of metastable β titanium alloys. <i>Materials Chemistry and Physics</i> , 2020, 239, 122125.	4.0	16
42	Magnetic-field-induced chain-like assemblies of the primary phase during non-equilibrium solidification of a Co-B eutectic alloy: Experiments and modeling. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152446.	5.5	12
43	Effect of strong magnetic field on the microstructure and mechanical-magnetic properties of AlCoCrFeNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153407.	5.5	34
44	Texture evolution and the recrystallization behavior in a near β titanium alloy Ti-7333 during the hot-rolling process. <i>Materials Characterization</i> , 2020, 159, 109999.	4.4	27
45	Metadynamic recrystallization behavior of β -solidified TiAl alloy during post-annealing after hot deformation. <i>Intermetallics</i> , 2020, 117, 106679.	3.9	15
46	Heat Treatment Influence on Tribological Properties of AlCoCrCuFeNi High-Entropy Alloy in Hydrogen Peroxide-Solution. <i>Metals and Materials International</i> , 2020, 26, 1286-1294.	3.4	9
47	Enhanced hydrogen absorption kinetics by introducing fine eutectic and long-period stacking ordered structure in ternary eutectic Mg ₂ Ni ₃ Y alloy. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153187.	5.5	25
48	Dynamic recrystallization and phase transformation behavior of a wrought β -TiAl alloy during hot compression. <i>Progress in Natural Science: Materials International</i> , 2020, 30, 517-525.	4.4	19
49	Liquid-liquid structure transition in metallic melt and its impact on solidification: A review. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 2293-2310.	4.2	15
50	The effect of cubic-texture on fatigue cracking in a metastable β titanium alloy subjected to high-cycle fatigue. <i>International Journal of Fatigue</i> , 2020, 141, 105872.	5.7	10
51	Combined crystal plasticity simulations and experiments for parameter identification: application to near- β titanium alloy. <i>Journal of Materials Science</i> , 2020, 55, 15043-15055.	3.7	9
52	Hot deformation behaviors of WE71 alloy under plain strain compression at elevated temperature. <i>Progress in Natural Science: Materials International</i> , 2020, 30, 526-532.	4.4	3
53	The cryogenic mechanical property deviation of Ti-based bulk metallic glass composite induced by interstitial element. <i>Journal of Non-Crystalline Solids</i> , 2020, 542, 120105.	3.1	3
54	High-throughput investigations of configurational-transformation-dominated serrations in CuZr/Cu nanolaminates. <i>Journal of Materials Science and Technology</i> , 2020, 53, 192-199.	10.7	14

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55	Reversion martensitic phase transformation induced {3 \hat{A} 2} \hat{A} 1 \hat{A} 3 \hat{A} twinning in metastable \hat{I}^2 -Ti alloys. <i>Materials Letters</i> , 2020, 272, 127883.	2.6	11
56	Influence of high magnetic field on the liquid-liquid phase separation behavior of an undercooled Cu \hat{A} Co immiscible alloy. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155502.	5.5	24
57	A brief review of data-driven ICME for intelligently discovering advanced structural metal materials: Insight into atomic and electronic building blocks. <i>Journal of Materials Research</i> , 2020, 35, 872-889.	2.6	17
58	Enhancing mechanical properties of Al _{0.25} CoCrFeNi high-entropy alloy via cold rolling and subsequent annealing. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154645.	5.5	25
59	Microstructural evolution and FCC twinning behavior during hot deformation of high temperature titanium alloy Ti65. <i>Journal of Materials Science and Technology</i> , 2020, 49, 56-69.	10.7	36
60	Hot Deformation Behavior of a Novel Near- \hat{I}^2 Titanium Alloy Ti-5.5Mo-6V-7Cr-4Al-2Sn-1Fe in ($\hat{I}^1 + \hat{I}^2$) Phase Region. <i>Frontiers in Materials</i> , 2020, 6, .	2.4	2
61	Precipitation behavior and strengthening-toughening mechanism of hot rolled sheet of Ti65 titanium alloy during aging process. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154786.	5.5	23
62	Outstanding self-lubrication of SiC ceramic with porous surface/AlCoCrFeNiTi _{0.5} high-entropy alloy tribol-pair under 90 \hat{A} wt% H ₂ O ₂ harsh environment. <i>Materials Letters</i> , 2020, 276, 128025.	2.6	9
63	\hat{I}^0 -Assisted refinement of \hat{I}^1 phase and its effect on the tensile properties of a near \hat{I}^2 titanium alloy. <i>Journal of Materials Science and Technology</i> , 2020, 44, 24-30.	10.7	33
64	Effects of Ti and Cu on the Microstructure Evolution of AlCoCrFeNi High-Entropy Alloy During Heat Treatment. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 1077-1090.	2.9	25
65	Liquid-liquid phase separation in immiscible Cu-Co alloy. <i>Materials Letters</i> , 2020, 268, 127585.	2.6	11
66	Revealing foundations of the intergranular corrosion of 5XXX and 6XXX Al alloys. <i>Materials Letters</i> , 2020, 271, 127767.	2.6	15
67	Influence of Isothermal \hat{I}^0 Transitional Phase-Assisted Phase Transition From \hat{I}^2 to \hat{I}^1 on Room-Temperature Mechanical Performance of a Meta-Stable \hat{I}^2 Titanium Alloy Ti \hat{A} 10Mo \hat{A} 6Zr \hat{A} 4Sn \hat{A} 3Nb (Ti-B12) for Medical Application. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 626665.	4.1	5
68	Effects of microstructure on high cycle fatigue properties of dual-phase Ti alloy: combined nonlocal CPFE simulations and extreme value statistics. <i>Journal of Materials Research and Technology</i> , 2020, 9, 5991-6000.	5.8	9
69	Formation of slip bands and microstructure evolution of Ti-5Al-5Mo-5V-3Cr-0.5Fe alloy during warm deformation process. <i>Journal of Alloys and Compounds</i> , 2019, 770, 183-193.	5.5	22
70	When a defect is a pathway to improve stability: a case study of the L12 Co ₃ TM superlattice intrinsic stacking fault. <i>Journal of Materials Science</i> , 2019, 54, 13609-13618.	3.7	16
71	A new microscopic coordinated deformation model of Ti-based bulk metallic composites during tensile deformation. <i>Scripta Materialia</i> , 2019, 172, 23-27.	5.2	6
72	Dynamic recrystallization behavior of the Ti \hat{A} 48Al \hat{A} 2Cr \hat{A} 2Nb alloy during isothermal hot deformation. <i>Progress in Natural Science: Materials International</i> , 2019, 29, 587-594.	4.4	26

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73	Microplasticity behavior study of equiaxed near- β^2 titanium alloy under high-cycle fatigue loading: crystal plasticity simulations and experiments. <i>Journal of Materials Research and Technology</i> , 2019, 8, 6146-6157.	5.8	7
74	A novel strategy for enhancing mechanical performance of Al _{0.5} CoCrFeNi high-entropy alloy via high magnetic field. <i>Materials Letters</i> , 2019, 240, 250-252.	2.6	8
75	Crystallography and asymmetry of tensile and compressive stress-induced martensitic transformation in metastable β^2 titanium alloy Ti-7Mo-3Nb-3Cr-3Al. <i>Journal of Alloys and Compounds</i> , 2019, 809, 151762.	5.5	30
76	Composition dependent characteristic transition temperatures of Co-B melts. <i>Journal of Non-Crystalline Solids</i> , 2019, 522, 119583.	3.1	8
77	Microstructural evolution resulting from different deformation mechanisms of a high-Nb-containing TiAl alloy with harmonic structure during elevated-temperature deformation. <i>Materials Letters</i> , 2019, 242, 35-38.	2.6	3
78	Intermediate temperature brittleness in a directionally solidified nickel-based superalloy M4706. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 759, 530-536.	5.6	14
79	Pitting Corrosion of Natural Aged Al-Mg-Si Extrusion Profile. <i>Materials</i> , 2019, 12, 1081.	2.9	7
80	Fully Recrystallized Al _{0.5} CoCrFeNi High-Entropy Alloy Strengthened by Nanoscale Precipitates. <i>Metals and Materials International</i> , 2019, 25, 1145-1150.	3.4	24
81	Microstructure and texture evolution of a near β^2 titanium alloy Ti-7333 during continuous cooling hot deformation. <i>Progress in Natural Science: Materials International</i> , 2019, 29, 50-56.	4.4	21
82	Microstructure and Hydrogen Absorption Properties of a BCC Phase Accompanied Laves Alloy. <i>Metals and Materials International</i> , 2019, 25, 814-820.	3.4	4
83	Interfacial in-situ Al ₂ O ₃ nanoparticles enhance load transfer in carbon nanotube (CNT)-reinforced aluminum matrix composites. <i>Journal of Alloys and Compounds</i> , 2019, 789, 25-29.	5.5	57
84	Local lattice distortion mediated formation of stacking faults in Mg alloys. <i>Acta Materialia</i> , 2019, 170, 231-239.	7.9	45
85	Hot deformation behavior originated from dislocation activity and β^2 to β^1 phase transformation in a metastable β^2 titanium alloy. <i>International Journal of Plasticity</i> , 2019, 119, 200-214.	8.8	28
86	Interstitial triggered grain boundary embrittlement of Al-X (X=H, N and O). <i>Computational Materials Science</i> , 2019, 163, 241-247.	3.0	8
87	Microstructure evolution and mechanical properties of diffusion bonding high Nb containing TiAl alloy to Ti ₂ AlNb alloy. <i>Vacuum</i> , 2019, 164, 140-148.	3.5	34
88	The effect of high magnetic field on the microstructure evolution of a Cu-Co alloy during non-equilibrium solidification. <i>Journal of Crystal Growth</i> , 2019, 515, 78-82.	1.5	9
89	Effect of strain distribution on the evolution of β^1 phase and texture for dual-phase titanium alloy during multi-pass forging process. <i>Materials Chemistry and Physics</i> , 2019, 228, 318-324.	4.0	9
90	Dependence of mechanical properties on the microstructure characteristics of a near β^2 titanium alloy Ti-7333. <i>Journal of Materials Science and Technology</i> , 2019, 35, 48-54.	10.7	41

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91	Integrated computational materials engineering for advanced materials: A brief review. Computational Materials Science, 2019, 158, 42-48.	3.0	84
92	Tensile properties and deformation micromechanism of Ti-based metallic glass composite containing impurity elements. Journal of Alloys and Compounds, 2019, 784, 220-230.	5.5	14
93	Nucleation of supercooled Co melts under a high magnetic field. Materials Chemistry and Physics, 2019, 225, 133-136.	4.0	22
94	Stress relaxation induced morphological evolution and texture weakening of β phase in Ti-6Al-4V alloy. Materials Letters, 2019, 236, 148-151.	2.6	9
95	Stress relaxation induced spheroidization of the lamellar β phase in Ti-7333 alloy. Journal of Alloys and Compounds, 2019, 781, 674-679.	5.5	10
96	Corrosive and tribological behaviors of AlCoCrFeNi-M high entropy alloys under 90 wt. % H ₂ O ₂ solution. Tribology International, 2019, 131, 24-32.	5.9	32
97	Temperature-induced structure transition in a liquid Co-B eutectic alloy. Materials Letters, 2019, 234, 351-353.	2.6	10
98	Insight into solid-solution strengthened bulk and stacking faults properties in Ti alloys: a comprehensive first-principles study. Journal of Materials Science, 2018, 53, 7493-7505.	3.7	17
99	Dynamic recrystallization and texture evolution of Ti-22Al-25Nb alloy during plane-strain compression. Journal of Alloys and Compounds, 2018, 749, 844-852.	5.5	88
100	Microstructural characteristics and dynamic recrystallization behavior of β -TiAl based alloy during high temperature deformation. Intermetallics, 2018, 97, 52-57.	3.9	40
101	Precipitation behavior of β phase during aging treatment in a β -quenched Ti-7333. Materials Characterization, 2018, 140, 275-280.	4.4	25
102	Characterization of the elevated temperature compressive deformation behavior of high Nb containing TiAl alloys with two microstructures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 725, 466-478.	5.6	37
103	Temperature dependent deformation mechanisms of Al _{0.3} CoCrFeNi high-entropy alloy, starting from serrated flow behavior. Journal of Alloys and Compounds, 2018, 757, 39-43.	5.5	22
104	Coupling effects of deformation and thermal exposure on the precipitation behaviors of β or (β %) phases in a high Nb-containing TiAl alloy. Materials and Design, 2018, 148, 135-144.	7.0	12
105	Microstructure and mechanical properties of non-equilibrium solidified CoCrFeNi high entropy alloy. Materials Chemistry and Physics, 2018, 210, 192-196.	4.0	57
106	Flow behavior and constitutive relationship for elevated temperature compressive deformation of a high Nb containing TiAl alloy with (β + β') microstructure. Materials Letters, 2018, 210, 58-61.	2.6	12
107	Hot Deformation Behavior, Dynamic Recrystallization, and Texture Evolution of Ti-22Al-25Nb Alloy. Advanced Engineering Materials, 2018, 20, 1700587.	3.5	19
108	Atomic and electronic basis for solutes strengthened (010) anti-phase boundary of L1 ₂ Co ₃ (Al, TM): A comprehensive first-principles study. Acta Materialia, 2018, 145, 30-40.	7.9	40

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109	Effect of Cold Rolling on the Phase Transformation Kinetics of an Al _{0.5} CoCrFeNi High-Entropy Alloy. Entropy, 2018, 20, 917.	2.2	13
110	Microstructure Evolution of a High Nb Containing TiAl Alloy with ($\hat{1}\pm 2 + \hat{1}\beta$) Microstructure during Elevated Temperature Deformation. Metals, 2018, 8, 916.	2.3	5
111	Phase Transformation Kinetics of a FCC Al _{0.25} CoCrFeNi High-Entropy Alloy during Isochronal Heating. Metals, 2018, 8, 1015.	2.3	4
112	Mechanical characterization and strain-rate sensitivity measurement of Ti-7333 alloy based on nanoindentation and crystal plasticity modeling. Progress in Natural Science: Materials International, 2018, 28, 718-723.	4.4	12
113	Correlation between imposed deformation and transformation lattice strain on $\hat{1}\pm$ variant selection in a metastable $\hat{1}^2$ -Ti alloy under isothermal compression. Acta Materialia, 2018, 161, 150-160.	7.9	32
114	Effect of cooling rate on microstructure evolution of Ti-45Al-8.5Nb-0.2W-0.2B-0.02Y alloy during multi-step heat treatment. Materials Characterization, 2018, 145, 210-217.	4.4	14
115	The cavitation of high Nb-containing TiAl alloys during tensile tests around BDTT. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 729, 86-93.	5.6	17
116	Microstructure and properties of bulk Al _{0.5} CoCrFeNi high-entropy alloy by cold rolling and subsequent annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 729, 141-148.	5.6	74
117	Microstructural evolution and tensile properties of an in-situ TiZr-based bulk metallic glass matrix composite after hot-pressing deformation in its supercooled liquid region. Journal of Alloys and Compounds, 2018, 768, 415-424.	5.5	5
118	The Formation and Evolution of Shear Bands in Plane Strain Compressed Nickel-Base Superalloy. Metals, 2018, 8, 141.	2.3	13
119	Effect of Solidification on Microstructure and Properties of FeCoNi(AlSi) _{0.2} High-Entropy Alloy Under Strong Static Magnetic Field. Entropy, 2018, 20, 275.	2.2	9
120	Microstructure Evolution of a Ti-45Al-8.5Nb-0.2W-0.2B-0.02Y Alloy during Massive Transformation and Subsequent Annealing. Metals, 2018, 8, 89.	2.3	2
121	Flow characteristics and deformation mechanisms for TiAl/Ti ₂ AlNb diffusion bonded joint. Materials Chemistry and Physics, 2018, 220, 216-224.	4.0	8
122	Revealing the local lattice strains and strengthening mechanisms of Ti alloys. Computational Materials Science, 2018, 152, 169-177.	3.0	29
123	Hot corrosion behavior and mechanical properties degradation of a Ni-Cr-W-based superalloy. Rare Metals, 2017, 36, 23-31.	7.1	6
124	Hydrogen storage performance of a pseudo-binary Zr-V-Ni Laves phase alloy against gaseous impurities. Renewable Energy, 2017, 103, 786-793.	8.9	14
125	In situ Observation of the Initial Stage of $\langle i \rangle \hat{1}^3 \langle /i \rangle$ Lamella Formation in Ti ₄₈ Al ₂ Cr ₂ Nb Alloy. Advanced Engineering Materials, 2017, 19, 1600670.	3.5	2
126	Indentation Pileup Behavior of Ti-6Al-4V Alloy: Experiments and Nonlocal Crystal Plasticity Finite Element Simulations. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 2051-2061.	2.2	19

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127	Hydrogen absorption properties of a non-stoichiometric Zr-based Laves alloy against gaseous impurities. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 10109-10116.	7.1	10
128	Superplastic deformation mechanism of a β -TiAl alloy with coarse and bimodal grain structure. <i>Materials Letters</i> , 2017, 194, 58-61.	2.6	19
129	Tune the mechanical properties of Ti-based metallic glass composites by additions of nitrogen. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 694, 93-97.	5.6	13
130	Composite structure of β phase in metastable β Ti alloys induced by lattice strain during β to α phase transformation. <i>Acta Materialia</i> , 2017, 132, 307-326.	7.9	80
131	Role of milling time and Ni content on dehydrogenation behavior of MgH ₂ /Ni composite. <i>Transactions of Nonferrous Metals Society of China</i> , 2017, 27, 569-577.	4.2	26
132	The origin of striation in the metastable β phase of titanium alloys observed by transmission electron microscopy. <i>Journal of Applied Crystallography</i> , 2017, 50, 795-804.	4.5	20
133	Liquid-liquid structure transition and nucleation in undercooled Co-B eutectic alloys. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	27
134	Characteristics of a hot-rolled near β titanium alloy Ti-7333. <i>Materials Characterization</i> , 2017, 129, 135-142.	4.4	35
135	The characteristics of serration in Al _{0.5} CoCrFeNi high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 702, 96-103.	5.6	62
136	Liquid-phase separation in undercooled CoCrCuFeNi high entropy alloy. <i>Intermetallics</i> , 2017, 86, 110-115.	3.9	30
137	Microstructure and Crystallography of β Phase Nucleated Dynamically during Thermo-Mechanical Treatments in Metastable β Titanium Alloy. <i>Advanced Engineering Materials</i> , 2017, 19, 1600859.	3.5	10
138	The FCC to BCC phase transformation kinetics in an Al _{0.5} CoCrFeNi high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2017, 710, 144-150.	5.5	59
139	Microstructure and hydrogen storage properties of Mg-Ni-Ce alloys with a long-period stacking ordered phase. <i>Journal of Power Sources</i> , 2017, 338, 91-102.	7.8	62
140	Microstructural evolution of a ductile metastable β titanium alloy with combined TRIP/TWIP effects. <i>Journal of Alloys and Compounds</i> , 2017, 699, 775-782.	5.5	76
141	Understanding the role of carbon atoms on microstructure and phase transformation of high Nb containing TiAl alloys. <i>Materials Characterization</i> , 2017, 124, 1-7.	4.4	55
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