Akihiko Chiba

List of Publications by Year
in descending order

364 papers	9,722 citations	34105 52 h-index	69250 77 g-index
376 all docs	376 docs citations	376 times ranked	5084 citing authors

#	Article	IF	Citations
1	Microstructures and mechanical properties of Coâ€“29Crâ€“6Mo alloy fabricated by selective laser melting process for dental applications. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 21, 67-76.	3.1	381
2	Pin-on-disk wear behavior in a like-on-like configuration in a biological environment of high carbon cast and low carbon forged Coâ€“29Crâ€“6Mo alloys. Acta Materialia, 2007, 55, 1309-1318.	7.9	204
3	Novel Co-rich high performance twinning-induced plasticity (TWIP) and transformation-induced plasticity (TRIP) high-entropy alloys. Scripta Materialia, 2019, 165, 39-43.	5.2	200
4	Build direction dependence of microstructure and high-temperature tensile property of Coâ€“Crâ€“Mo alloy fabricated by electron beam melting. Acta Materialia, 2014, 64, 154-168.	7.9	163
5	Relationship between the microstructure and mechanical properties of an equiatomic AlCoCrFeNi high-entropy alloy fabricated by selective electron beam melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 656, 39-46.	5.6	144
6	Strain-induced martensitic transformation near twin boundaries in a biomedical Coâ€“Crâ€“Mo alloy with negative stacking fault energy. Acta Materialia, 2013, 61, 1648-1661.	7.9	140
7	Novel Co-rich high entropy alloys with superior tensile properties. Materials Research Letters, 2019, 7, 82-88.	8.7	139
8	Development of strong and ductile metastable face-centered cubic single-phase high-entropy alloys. Acta Materialia, 2019, 181, 318-330.	7.9	134
9	First demonstration of promising selective electron beam melting method for utilizing high-entropy alloys as engineering materials. Materials Letters, 2015, 159, 12-15.	2.6	133
10	Room-temperature ductility of Tiâ€“6Alâ€“4V alloy with Î±â€² martensite microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1512-1520.	5.6	132
11	CoCrFeNiTi-based high-entropy alloy with superior tensile strength and corrosion resistance achieved by a combination of additive manufacturing using selective electron beam melting and solution treatment. Materials Letters, 2017, 189, 148-151.	2.6	130
12	Microstructure and corrosion behaviour in biological environments of the new forged low-Ni Co?Cr?Mo alloys. Biomaterials, 2005, 26, 4912-4923.	11.4	122
13	Phase and grain size inhomogeneity and their influences on creep behavior of Coâ€“Crâ€“Mo alloy additive manufactured by electron beam melting. Acta Materialia, 2015, 86, 305-318.	7.9	121
14	Ultrafine Grain Refinement of Biomedical Co-29Cr-6Mo Alloy during Conventional Hot-Compression Deformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 1980-1994.	2.2	111
15	Effects of chromium and nitrogen content on the microstructures and mechanical properties of as-cast Coâ€“Crâ€“Mo alloys for dental applications. Acta Biomaterialia, 2012, 8, 2856-2862.	8.3	95
16	In-situ fabrication and characterization of ultrafine structured Cuâ€“TiC composites with high strength and high conductivity by mechanical milling. Journal of Alloys and Compounds, 2016, 657, 122-132.	5.5	95
17	Significant Improvement in Mechanical Properties of Biomedical Co-Cr-Mo Alloys with Combination of N Addition and Cr-Enrichment. Materials Transactions, 2008, 49, 260-264.	1.2	94
18	Isothermal Phase Transformation in Biomedical Co-29Cr-6Mo Alloy without Addition of Carbon or Nitrogen. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2613-2625.	2.2	91

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19	Effects of post-processing on cyclic fatigue response of a titanium alloy additively manufactured by electron beam melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 680, 239-248.	5.6	91
20	Nanoarchitectured Coâ€“Crâ€“Mo orthopedic implant alloys: Nitrogen-enhanced nanostructural evolution and its effect on phase stability. Acta Biomaterialia, 2013, 9, 6259-6267.	8.3	86
21	Thermomechanical characterization of Î²-stabilized Tiâ€“45Alâ€“7Nbâ€“0.4Wâ€“0.15B alloy. Intermetallics, 2011, 19, 1184-1190.	3.9	85
22	Synergistic alloying effect on microstructural evolution and mechanical properties of Cu precipitation-strengthened ferritic alloys. Acta Materialia, 2013, 61, 7726-7740.	7.9	85
23	Hot forging characteristic of Tiâ€“5Alâ€“5Vâ€“5Moâ€“3Cr alloy with single metastable Î² microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 611, 337-344.	5.6	85
24	Impact of solute elements on detwinning in magnesium and its alloys. International Journal of Plasticity, 2017, 91, 134-159.	8.8	81
25	Simple method to construct process maps for additive manufacturing using a support vector machine. Additive Manufacturing, 2019, 27, 353-362.	3.0	81
26	Enhanced damping capacity of magnesium alloys by tensile twin boundaries. Scripta Materialia, 2015, 101, 8-11.	5.2	80
27	Suzuki segregation in Coâ€“Ni-based superalloy at 973 K: An experimental and computational study by phase-field simulation. Acta Materialia, 2012, 60, 2901-2915.	7.9	79
28	Refinement of lamellar structures in Ti-Al alloy. Acta Materialia, 2017, 125, 81-97.	7.9	78
29	Frequent Occurrence of Discontinuous Dynamic Recrystallization in Ti-6Al-4V Alloy with Î±â€² Martensite Starting Microstructure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 3245-3260.	2.2	76
30	Effect of Carbon Addition on Microstructure and Mechanical Properties of a Wrought Co–Cr–Mo Implant Alloy. Materials Transactions, 2006, 47, 287-290.	1.2	75
31	Construction of processing map for biomedical Coâ€“28Crâ€“6Moâ€“0.16N alloy by studying its hot deformation behavior using compression tests. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 513-514, 286-293.	5.6	74
32	Tiâ€“6Alâ€“4V alloy with an ultrafine-grained microstructure exhibiting low-temperatureâ€“high-strain-rate superplasticity. Materials Letters, 2013, 98, 209-212.	2.6	74
33	Evolution of cold-rolled microstructures of biomedical Co-Cr-Mo alloys with and without N doping. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 614-621.	5.6	73
34	Effects of nitrogen addition on microstructure and mechanical behavior of biomedical Coâ€“Crâ€“Mo alloys. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 29, 417-426.	3.1	73
35	Development of new Coâ€“Crâ€“W-based biomedical alloys: Effects of microalloying and thermomechanical processing on microstructures and mechanical properties. Materials & Design, 2014, 55, 987-998.	5.1	72
36	Mechanical properties of as-forged Ni-free Coâ€“29Crâ€“6Mo alloys with ultrafine-grained microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 5961-5966.	5.6	71

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37	Effects of sigma phase and carbide on the wear behavior of CoCrMo alloys in Hanks' solution. Wear, 2014, 310, 51-62.	3.1	69
38	Mechanical and corrosion properties of AlCoCrFeNi high-entropy alloy fabricated with selective electron beam melting. Additive Manufacturing, 2018, 23, 264-271.	3.0	69
39	Molten pool behavior and effect of fluid flow on solidification conditions in selective electron beam melting (SEBM) of a biomedical Co-Cr-Mo alloy. Additive Manufacturing, 2019, 26, 202-214.	3.0	69
40	Grain refinement of biomedical Coâ€“27Crâ€“5Moâ€“0.16N alloy by reverse transformation. Materials Letters, 2010, 64, 49-52.	2.6	68
41	Mechanical Properties of Forged Low Ni and C-Containing Co-Cr-Mo Biomedical Implant Alloy. Materials Science Forum, 2005, 475-479, 2317-2322.	0.3	62
42	Cuâ€“Tiâ€“C alloy with high strength and high electrical conductivity prepared by two-step ball-milling processes. Materials & Design, 2014, 61, 70-74.	5.1	61
43	Grain refinement and weak-textured structures based on the dynamic recrystallization of Mgâ€“9.80Gdâ€“3.78Yâ€“1.12Smâ€“0.48Zr alloy. Journal of Magnesium and Alloys, 2021, 9, 456-466.	11.9	61
44	Electron beam additive manufacturing of Inconel 718 alloy rods: Impact of build direction on microstructure and high-temperature tensile properties. Additive Manufacturing, 2018, 23, 457-470.	3.0	60
45	Regulating twin boundary mobility by annealing in magnesium and its alloys. International Journal of Plasticity, 2017, 99, 1-18.	8.8	59
46	Enhanced Mechanical Properties of As-Forged Co-Cr-Mo-N Alloys with Ultrafine-Grained Structures. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 5243-5257.	2.2	58
47	Quantitative Analysis of Work Hardening and Dynamic Softening Behavior of low carbon alloy Steel Based on the Flow Stress. Materials & Design, 2013, 45, 384-392.	5.1	58
48	Hot deformation characteristics and dynamic recrystallization mechanisms of a Coâ€“Ni-based superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 788, 139638.	5.6	58
49	Local strain evolution due to athermal Î³â†’Îµ martensitic transformation in biomedical Co Cr Mo alloys. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 32, 52-61.	3.1	57
50	Behavior modeling and microstructural evolutions of Tiâ€“6Alâ€“4V alloy under hot forming conditions. International Journal of Mechanical Sciences, 2016, 108-109, 1-13.	6.7	57
51	Effect of Heat Treatment on Microstructure and Mechanical Properties of Ni- and C-Free Co–Cr–Mo Alloys for Medical Applications. Materials Transactions, 2005, 46, 1790-1793.	1.2	56
52	Corrosion mechanism of an equimolar AlCoCrFeNi high-entropy alloy additively manufactured by electron beam melting. Npj Materials Degradation, 2020, 4, .	5.8	55
53	Mechanical and corrosion properties of CoCrFeNiTi-based high-entropy alloy additive manufactured using selective laser melting. Additive Manufacturing, 2019, 25, 412-420.	3.0	54
54	Regulating the coarsening of the Î³â€² phase in superalloys. NPG Asia Materials, 2015, 7, e212-e212.	7.9	52

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55	Stacking-fault strengthening of biomedical Coâ€“Crâ€“Mo alloy via multipass thermomechanical processing. Scientific Reports, 2017, 7, 10808.	3.3	49
56	Origin of Significant Grain Refinement in Co-Cr-Mo Alloys Without Severe Plastic Deformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4875-4887.	2.2	48
57	Influence of two-step ball-milling condition on electrical and mechanical properties of TiC-dispersion-strengthened Cu alloys. Materials & Design, 2014, 64, 441-449.	5.1	48
58	Corrosion behaviour of CoCrMo alloys in 2 wt% sulphuric acid solution. Electrochimica Acta, 2014, 125, 543-555.	5.2	46
59	Friction Coefficient in Hot Compression of Cylindrical Sample. Materials Transactions, 2010, 51, 1210-1215.	1.2	44
60	Deformation Behavior and Dynamic Recrystallization of Biomedical Co-Cr-W-Ni (L-605) Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 2819-2830.	2.2	44
61	Role of slip and {10-12} twin on the crystal plasticity in Mg-RE alloy during deformation process at room temperature. Journal of Materials Science and Technology, 2021, 80, 279-296.	10.7	42
62	Preparation of weak-textured commercially pure titanium by electron beam melting. Additive Manufacturing, 2015, 8, 105-109.	3.0	41
63	Dynamic recrystallization of a biomedical Coâ€“Crâ€“W-based alloy under hot deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 592, 173-181.	5.6	40
64	Effects of partially substituting cobalt for nickel on the corrosion resistance of a Niâ€“16Crâ€“15Mo alloy to aqueous hydrofluoric acid. Corrosion Science, 2014, 78, 101-110.	6.6	40
65	Effects of alloyed Si on the oxidation behaviour of Coâ€“29Crâ€“6Mo alloy for solid-oxide fuel cell interconnects. Corrosion Science, 2015, 95, 88-99.	6.6	40
66	Influence of cobalt addition on microstructure and hot workability of IN713C superalloy. Materials and Design, 2017, 122, 340-346.	7.0	40
67	Fatigue improvement of electron beam melting-fabricated biomedical Coâ€“Crâ€“Mo alloy by accessible heat treatment. Materials Research Letters, 2018, 6, 93-99.	8.7	40
68	Study of microstructure evolution and properties of Cu-Fe microcomposites produced by a pre-alloyed powder method. Materials and Design, 2017, 126, 64-72.	7.0	39
69	Effect of Al content and cold rolling on the microstructure and mechanical properties of Al5Cr12Fe35Mn28Ni20 high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 759, 380-390.	5.6	39
70	Flow behavior and microstructure in Tiâ€“6Alâ€“4V alloy with an ultrafine-grained Î±-single phase microstructure during low-temperature-high-strain-rate superplasticity. Materials & Design, 2015, 66, 611-617.	5.1	38
71	On microstructural homogenization and mechanical properties optimization of biomedical Co-Cr-Mo alloy additively manufactured by using electron beam melting. Additive Manufacturing, 2019, 28, 215-227.	3.0	38
72	Microstructure and mechanical properties of biomedical Coâ€“29Crâ€“8Mo alloy wire fabricated by a modified melt-spinning process. Acta Materialia, 2007, 55, 2119-2128.	7.9	37

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73	Interfacial reactions of solid Co and solid Fe with liquid Al. Corrosion Science, 2012, 60, 32-37.	6.6	37
74	Role of nitrogen addition in stabilizing the Î³ phase of Biomedical Coâ€“29Crâ€“6Mo alloy. Materials Chemistry and Physics, 2012, 133, 29-32.	4.0	37
75	Abnormal grain growth in commercially pure titanium during additive manufacturing with electron beam melting. Materialia, 2019, 6, 100281.	2.7	37
76	Effects of carbon concentration on microstructure and mechanical properties of as-cast nickel-free Coâ€“28Crâ€“9W-based dental alloys. Materials Science and Engineering C, 2014, 40, 127-134.	7.3	36
77	Analysis of the Fracture Mechanism of Ti-6Al-4V Alloy Rods That Failed Clinically After Spinal Instrumentation Surgery. Spine, 2015, 40, E767-E773.	2.0	36
78	High temperature oxidation behaviour of Î³â€²-strengthened Co-based superalloys with different Ni addition. Corrosion Science, 2019, 157, 109-115.	6.6	36
79	Microstructures and Mechanical Properties of Biomedical Co-29Cr-6Mo-0.14N Alloys Processed by Hot Rolling. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3108-3119.	2.2	35
80	Role of strain-induced martensitic transformation on extrusion and intrusion formation during fatigue deformation of biomedical Coâ€“Crâ€“Moâ€“N alloys. Acta Materialia, 2014, 81, 377-385.	7.9	35
81	Suzuki Segregation and Dislocation Locking in Supersaturated Co-Ni-Based Alloy. Materials Transactions, 2001, 42, 2112-2116.	1.2	34
82	Interfacial reactions between molten Al and a Coâ€“Crâ€“Mo alloy with and without oxidation treatment. Corrosion Science, 2011, 53, 4324-4326.	6.6	34
83	Effects of cold working on corrosion resistance of Co-modified Niâ€“16Crâ€“15Mo alloy in hydrofluoric acid solution. Corrosion Science, 2014, 89, 258-267.	6.6	34
84	Dynamic recrystallization in biomedical Co-29Cr-6Mo-0.16N alloy with low stacking fault energy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 668, 86-96.	5.6	34
85	Cellular lattices of biomedical Co-Cr-Mo-alloy fabricated by electron beam melting with the aid of shape optimization. Additive Manufacturing, 2016, 12, 305-313.	3.0	34
86	Microstructure evolution and mechanical property of a precipitation-strengthened refractory high-entropy alloy HfNbTaTiZr. Materials Letters, 2019, 254, 46-49.	2.6	34
87	Mechanical behaviors of Tiâ€“Vâ€“(Al, Sn) alloys with Îµâ€² martensite microstructure. Journal of Alloys and Compounds, 2011, 509, 2684-2692.	5.5	33
88	Characterisation of oxide films formed on Coâ€“29Crâ€“6Mo alloy used in die-casting moulds for aluminium. Corrosion Science, 2013, 73, 72-79.	6.6	33
89	Deformation mode in biomedical Coâ€“27% Crâ€“5% Mo alloy consisting of a single hexagonal close-packed structure. Scripta Materialia, 2010, 63, 1092-1095.	5.2	32
90	Osseointegration Enhancement by Zr doping of Co-Cr-Mo Implants Fabricated by Electron Beam Melting. Additive Manufacturing, 2015, 6, 6-15.	3.0	32

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91	Assessment of precipitation behavior in dental castings of a Coâ€“Crâ€“Mo alloy. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 50, 268-276.	3.1	32
92	Heterogeneous microstructures and corrosion resistance of biomedical Co-Cr-Mo alloy fabricated by electron beam melting (EBM). Additive Manufacturing, 2018, 24, 103-114.	3.0	32
93	Microstructural evolution and deformation mode under high-temperature-tensile-deformation of the Ti-6Al-4V alloy with the metastable Î±â€² martensite starting microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 661, 68-78.	5.6	31
94	Forging property, processing map, and mesoscale microstructural evolution modeling of a Ti-17 alloy with a lamellar (Î±+Î²) starting microstructure. Science and Technology of Advanced Materials, 2017, 18, 893-904.	6.1	31
95	Phase decomposition in biomedical Coâ€“29Crâ€“6Moâ€“0.2N alloy during isothermal heat treatment at 1073K. Journal of Alloys and Compounds, 2014, 590, 411-416.	5.5	30
96	Microscopic mechanism of plastic deformation in a polycrystalline Coâ€“Crâ€“Mo alloy with a single hcp phase. Acta Materialia, 2014, 64, 1-11.	7.9	30
97	Elucidating the effect of preheating temperature on melt pool morphology variation in Inconel 718 laser powder bed fusion via simulation and experiment. Additive Manufacturing, 2021, 37, 101642.	3.0	30
98	High-temperature ultra-strength of dual-phase Re0.5MoNbW(TaC)0.5 high-entropy alloy matrix composite. Journal of Materials Science and Technology, 2021, 84, 1-9.	10.7	30
99	Synergetic strengthening in HfMoNbTaTi refractory high-entropy alloy via disordered nanoscale phase and semicoherent refractory particle. Materials and Design, 2021, 212, 110248.	7.0	30
100	Effect of Sigma Phase in Co-29Cr-6Mo Alloy on Corrosion Behavior in Saline Solution. Materials Transactions, 2006, 47, 1961-1964.	1.2	29
101	Enhancement of athermal Î±â€³ martensitic transformation in Tiâ€“10Vâ€“2Feâ€“3Al alloy due to high-speed hot deformation. Scripta Materialia, 2012, 67, 21-24.	5.2	29
102	Effects of microstructures on the sliding behavior of hot-pressed CoCrMo alloys. Wear, 2014, 319, 200-210.	3.1	29
103	Influence of carbon addition on mechanical properties and microstructures of Ni-free Coâ€“Crâ€“W alloys subjected to thermomechanical processing. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 37, 274-285.	3.1	29
104	Influence of Mo concentration on corrosion resistance to HF acid solution of Niâ€“Coâ€“Crâ€“Mo alloys with and without Cu. Corrosion Science, 2015, 99, 185-193.	6.6	29
105	Developing high strength and ductility in biomedical Coâ€“Cr cast alloys by simultaneous doping with nitrogen and carbon. Acta Biomaterialia, 2016, 31, 435-447.	8.3	29
106	Controlling factors determining flowability of powders for additive manufacturing: A combined experimental and simulation study. Powder Technology, 2021, 393, 482-493.	4.2	29
107	Effect of process parameters on melt pool geometry and microstructure development for electron beam melting of IN718: A systematic single bead analysis study. Additive Manufacturing, 2019, 26, 215-226.	3.0	28
108	Influence of minor Ag addition on the microstructure and properties of powder metallurgy Cu-10Âwt% Fe alloy. Journal of Alloys and Compounds, 2022, 904, 163983.	5.5	28

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109	Corrosion resistance of Cu- and Fe-modified Niâ€“30Coâ€“16Crâ€“15Mo alloy in aqueous hydrofluoric acid. Corrosion Science, 2014, 89, 81-92.	6.6	27
110	Regulating the passive film of NiCoCrMo alloy in hydrofluoric acid solution by small addition of Cu. Corrosion Science, 2015, 98, 119-127.	6.6	27
111	Effect of multipass thermomechanical processing on the corrosion behaviour of biomedical Coâ€“Crâ€“Mo alloys. Corrosion Science, 2019, 148, 178-187.	6.6	27
112	Thermal properties of powder beds in energy absorption and heat transfer during additive manufacturing with electron beam. Powder Technology, 2021, 381, 44-54.	4.2	27
113	Interfacial reaction between Coâ€“Crâ€“Mo alloy and liquid Al. Corrosion Science, 2013, 75, 262-268.	6.6	26
114	Surface characterisation of Ni-free Coâ€“Crâ€“W-based dental alloys exposed to high temperatures and the effects of adding silicon. Corrosion Science, 2015, 94, 411-419.	6.6	26
115	Anisotropy of Young's modulus and tensile properties in cold rolled Î±â€² martensite Tiâ€“Vâ€“Sn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 486, 503-510.	5.6	25
116	Grain refinement due to complex twin formation in rapid hot forging of magnesium alloy. Scripta Materialia, 2013, 68, 171-174.	5.2	25
117	Refinement of solidification microstructures by carbon addition in biomedical Coâ€“28Crâ€“9Wâ€“1Si alloys. Materials Letters, 2014, 116, 82-85.	2.6	25
118	Submicron lamellar porous structure formed by selective dissolution of Ti-Al alloy. Materials and Design, 2016, 98, 1-11.	7.0	25
119	Tuning strain-induced Î³-to-Îµ martensitic transformation of biomedical Coâ€“Crâ€“Mo alloys by introducing parent phase lattice defects. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 90, 523-529.	3.1	25
120	Microstructure refinement for superior ductility of Alâ€“Si alloy by electron beam melting. Additive Manufacturing, 2020, 32, 100982.	3.0	25
121	Smoke Suppression in Electron Beam Melting of Inconel 718 Alloy Powder Based on Insulatorâ€“Metal Transition of Surface Oxide Film by Mechanical Stimulation. Materials, 2021, 14, 4662.	2.9	25
122	Tribological properties of carbon/carbon composites with various pyrolytic carbon microstructures. Wear, 2013, 304, 103-108.	3.1	24
123	Collective behavior of strain-induced martensitic transformation (SIMT) in biomedical Coâ€“Crâ€“Moâ€“N alloy polycrystal: An ex-situ electron backscattering diffraction study. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 611, 263-273.	5.6	24
124	Influences of alloyed Si on the corrosion resistance of Coâ€“Crâ€“Mo alloy to molten Al by iso-thermal oxidation in air. Corrosion Science, 2015, 100, 428-434.	6.6	24
125	Precipitation behavior of a novel cobalt-based superalloy subjected to prior plastic deformations. Materials and Design, 2016, 112, 1-10.	7.0	24
126	Microstructural control of alloy 718 fabricated by electron beam melting with expanded processing window by adaptive offset method. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 764, 138058.	5.6	24

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127	Role of operating and environmental conditions in determining molten pool dynamics during electron beam melting and selective laser melting. Additive Manufacturing, 2020, 36, 101559.	3.0	24
128	Dry Friction and Wear Behavior of Forged Co–29Cr–6Mo Alloy without Ni and C Additions for Implant Applications. Materials Transactions, 2005, 46, 1578-1587.	1.2	23
129	Thermomechanical characterization of P/M Tiâ€“Feâ€“Moâ€“Y alloy with a fine lamellar microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2345-2352.	5.6	23
130	Influence of carbon and nitrogen addition on microstructure and hot deformation behavior of biomedical Coâ€“Crâ€“Mo alloy. Materials Chemistry and Physics, 2012, 135, 849-854.	4.0	23
131	Experimental and theoretical research on interfacial reaction of solid Co with liquid Al. Corrosion Science, 2013, 73, 54-61.	6.6	23
132	Modeling Grain Boundary Motion and Dynamic Recrystallization in Pure Metals. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 5861-5875.	2.2	23
133	Strengthening of biomedical Ni-free Coâ€“Crâ€“Mo alloy by multipass â€œlow-strain-per-passâ€• thermomechanical processing. Acta Biomaterialia, 2015, 28, 215-224.	8.3	23
134	Effect of carbon on the microstructure, mechanical properties and metal ion release of Ni-free Coâ€“Crâ€“Mo alloys containing nitrogen. Materials Science and Engineering C, 2015, 55, 145-154.	7.3	23
135	Cold-rolling behavior of biomedical Ni-free Coâ€“Crâ€“Mo alloys: Role of strain-induced Îµ martensite and its intersecting phenomena. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 55, 201-214.	3.1	23
136	Damping capacity of pre-compressed magnesium alloys after annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 708, 104-109.	5.6	23
137	Comprehensive study on mechanisms for grain morphology evolution and texture development in powder bed fusion with electron beam of Coâ€“Crâ€“Mo alloy. Materialia, 2019, 6, 100346.	2.7	23
138	The damage process in a biomedical Coâ€“29Crâ€“6Moâ€“0.14N alloy analyzed by X-ray tomography and electron backscattered diffraction. Scripta Materialia, 2011, 64, 367-370.	5.2	22
139	CoCrMo cellular structures made by Electron Beam Melting studied by local tomography and finite element modelling. Materials Characterization, 2016, 116, 48-54.	4.4	22
140	Development of low-Youngâ€™s modulus Tiâ€“Nb-based alloys with Cr addition. Journal of Materials Science, 2019, 54, 8675-8683.	3.7	22
141	Strength and superconductivity of Nb3Al prepared by spark plasma sintering. Journal of Alloys and Compounds, 2002, 336, 232-236.	5.5	21
142	Phase transformation and age-hardening of hexagonal Î±â€² martensite in Tiâ€“12mass%Vâ€“2mass%Al alloys studied by transmission electron microscopy. Journal of Alloys and Compounds, 2010, 506, 607-614.	5.5	21
143	Effects of carbon addition on wear mechanisms of CoCrMo metal-on-metal hip joint bearings. Materials Science and Engineering C, 2017, 76, 997-1004.	7.3	21
144	Discontinuous yielding and microstructural evolution of Ti-40Âat.% Al alloy compressed in single Î±-hcp phase region. Journal of Alloys and Compounds, 2017, 693, 1261-1276.	5.5	21

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145	Electron beam melting of boron-modified Tiâ€“6Alâ€“2Snâ€“4Zrâ€“2Moâ€“0.1Si alloy with superior tensile strength and oxidation resistance at elevated temperatures. Materialia, 2018, 4, 367-372.	2.7	21
146	A Constitutive Model and Processing Maps Describing the Highâ€Temperature Deformation Behavior of Tiâ€17 Alloy in the Î²â€Phase Field. Advanced Engineering Materials, 2019, 21, 1800775.	3.5	21
147	Deformation behavior of Mgâ€“5Yâ€“2Ndâ€“0.5Zr alloys with different Sm additions. Journal of Alloys and Compounds, 2021, 856, 158201.	5.5	21
148	Effect of nitriding treatment on corrosion behaviour of Coâ€“Crâ€“Mo alloy in liquid Al. Corrosion Science, 2014, 78, 244-250.	6.6	20
149	Ex-situ observation on the dissolution behaviour of Niâ€“16Crâ€“15Mo and Niâ€“30Coâ€“16Crâ€“15Mo alloys in hydrofluoric acid. Corrosion Science, 2015, 90, 133-139.	6.6	20
150	Strain-controlled iso-thermal fatigue behavior of Coâ€“29Crâ€“6Mo used for tooling materials in Al die casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 703, 27-36.	5.6	20
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152	Constructing Processing Maps for Hot Working of Co-Ni-Cr-Mo Superalloy. Materials Transactions, 2009, 50, 2277-2284.	1.2	19
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