

Akihiko Chiba

List of Publications by Year in descending order

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364
papers

9,722
citations

34105

52
h-index

69250

77
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376
all docs

376
docs citations

376
times ranked

5084
citing authors

#	ARTICLE	IF	CITATIONS
1	Quasi-in-situ study on {10-12} twinning-detwinning behavior of rolled Mg-Li alloy in two-step compression (RD)-compression (ND) process. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 2775-2787.	11.9	15
2	A novel strategy to strengthen the hexagonal close-packed (HCP) alloys. <i>Journal of Alloys and Compounds</i> , 2022, 893, 162346.	5.5	5
3	Significant lattice-distortion effect on compressive deformation in Mo-added CoCrFeNi-based high-entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 830, 142295.	5.6	17
4	Superior hardness–corrosion-resistance combination in a Co-, Cu-modified Ni–Cr–Mo alloy via multiple nanoscale segregation mechanisms. <i>Scripta Materialia</i> , 2022, 209, 114389.	5.2	1
5	Spreading behavior of Ti 48Al 2Cr 2Nb powders in powder bed fusion additive manufacturing process: Experimental and discrete element method study. <i>Additive Manufacturing</i> , 2022, 49, 102489.	3.0	8
6	Thermophysical properties of liquid Co–Cr–Mo alloys measured by electromagnetic levitation in a static magnetic field. <i>Thermochimica Acta</i> , 2022, 708, 179119.	2.7	5
7	Study on Hot Deformation Behavior of Beta Ti-17Mo Alloy for Biomedical Applications. <i>Jom</i> , 2022, 74, 494-505.	1.9	7
8	Influence of minor Ag addition on the microstructure and properties of powder metallurgy Cu-10Åwt% Fe alloy. <i>Journal of Alloys and Compounds</i> , 2022, 904, 163983.	5.5	28
9	Ball-milling treatment of gas-atomized Ti 48Al 2Cr 2Nb powder and its effect on preventing smoking during electron beam powder bed fusion building process. <i>Additive Manufacturing</i> , 2022, 51, 102634.	3.0	1
10	A method to manipulate non-steady-state columnar-to-equiaxed transition in powder bed fusion additive manufacturing using an electron beam. <i>Acta Materialia</i> , 2022, 227, 117717.	7.9	12
11	Robust mechanical properties and corrosion resistance of new low-cost hot-forged and aged β -type Ti–14Mn–(x)Zr alloys. <i>Journal of Alloys and Compounds</i> , 2022, 904, 164098.	5.5	7
12	Microstructure and mechanical properties of Ti–Nb–Fe–Zr alloys with high strength and low elastic modulus. <i>Transactions of Nonferrous Metals Society of China</i> , 2022, 32, 503-512.	4.2	11
13	Microstructure, mechanical properties, and cytotoxicity of low Young's modulus Ti–Nb–Fe–Sn alloys. <i>Journal of Materials Science</i> , 2022, 57, 5634-5644.	3.7	6
14	Density, surface tension, and viscosity of Co-Cr-Mo melts measured using electrostatic levitation technique. <i>Thermochimica Acta</i> , 2022, 710, 179183.	2.7	7
15	Evidence for chromium, cobalt and molybdenum volatilisations during high temperature oxidation of Co-27Cr-6Mo Alloy. <i>Corrosion Science</i> , 2022, 202, 110285.	6.6	4
16	Detection, classification and prediction of internal defects from surface morphology data of metal parts fabricated by powder bed fusion type additive manufacturing using an electron beam. <i>Additive Manufacturing</i> , 2022, 54, 102736.	3.0	8
17	Analysis of hierarchical microstructural evolution in electron beam powder bed fusion Ti–6Al–4V alloys via time-of-flight neutron diffraction. <i>Additive Manufacturing Letters</i> , 2022, 3, 100053.	2.1	1
18	Spinodal Decomposition in Plastically Deformed Fe–Cr–Co Magnet Alloy. <i>ISIJ International</i> , 2022, 62, 1268-1274.	1.4	3

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19	Dynamic recrystallization of Sn coatings on carbon-fiber-reinforced plastics during cold spray additive manufacturing. <i>Additive Manufacturing</i> , 2022, 56, 102949.	3.0	2
20	Microstructure evolution during T6 heat treatment in an additive manufactured AlSi10Mg alloy using powder bed fusion-electron beam. <i>Keikin-zoku/Journal of Japan Institute of Light Metals</i> , 2022, 72, 321-326.	0.4	0
21	Demonstrating a duplex TRIP/TWIP titanium alloy via the introduction of metastable retained β -phase. <i>Materials Research Letters</i> , 2022, 10, 754-761.	8.7	5
22	The significance of thermomechanical processing on the cellular response of biomedical Co-Cr-Mo alloys. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 133, 105360.	3.1	1
23	A survey on basic influencing factors of solidified grain morphology during electron beam melting. <i>Materials and Design</i> , 2022, 221, 110927.	7.0	3
24	Non-equilibrium solidification behavior associated with powder characteristics during electron beam additive manufacturing. <i>Materials and Design</i> , 2022, 221, 110915.	7.0	9
25	Grain refinement and weak-textured structures based on the dynamic recrystallization of Mg-9.80Gd-3.78Y-1.12Sm-0.48Zr alloy. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 456-466.	11.9	61
26	Elucidating the effect of preheating temperature on melt pool morphology variation in Inconel 718 laser powder bed fusion via simulation and experiment. <i>Additive Manufacturing</i> , 2021, 37, 101642.	3.0	30
27	Effects of the aluminum concentration on twin boundary motion in pre-strained magnesium alloys. <i>Journal of Materials Science and Technology</i> , 2021, 73, 116-127.	10.7	4
28	Deformation behavior of Mg-5Y-2Nd-0.5Zr alloys with different Sm additions. <i>Journal of Alloys and Compounds</i> , 2021, 856, 158201.	5.5	21
29	Quantifying the dislocation structures of additively manufactured Ti-6Al-4V alloys using X-ray diffraction line profile analysis. <i>Additive Manufacturing</i> , 2021, 37, 101678.	3.0	8
30	Spinodal Decomposition in Plastically Deformed Fe-Cr-Co Magnet Alloy. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2021, 107, 146-153.	0.4	0
31	Thermal properties of powder beds in energy absorption and heat transfer during additive manufacturing with electron beam. <i>Powder Technology</i> , 2021, 381, 44-54.	4.2	27
32	Effect of niobium addition on tensile properties and oxidation resistance of a titanium-based alloy. <i>Corrosion Science</i> , 2021, 180, 109198.	6.6	11
33	Critical factor triggering grain boundary cracking in non-weldable superalloy Alloy713ELC fabricated with selective electron beam melting. <i>Acta Materialia</i> , 2021, 208, 116695.	7.9	14
34	Calculation-driven design of off-equiatomic high-entropy alloys with enhanced solid-solution strengthening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 817, 141359.	5.6	11
35	Role of slip and {10-12} twin on the crystal plasticity in Mg-RE alloy during deformation process at room temperature. <i>Journal of Materials Science and Technology</i> , 2021, 80, 279-296.	10.7	42
36	Smoke Suppression in Electron Beam Melting of Inconel 718 Alloy Powder Based on Insulator-Metal Transition of Surface Oxide Film by Mechanical Stimulation. <i>Materials</i> , 2021, 14, 4662.	2.9	25

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37	Surface evolution and corrosion behaviour of Cu-doped carbide-reinforced martensitic steels in a sulfuric acid solution. <i>Npj Materials Degradation</i> , 2021, 5, .	5.8	5
38	The microstructure and mechanical properties of selective electron beam melting manufactured 9â€“12Cr ferritic/martensitic steel using N- and Ar-atomized powder. <i>Additive Manufacturing</i> , 2021, 45, 102075.	3.0	3
39	High-temperature ultra-strength of dual-phase Re0.5MoNbW(TaC)0.5 high-entropy alloy matrix composite. <i>Journal of Materials Science and Technology</i> , 2021, 84, 1-9.	10.7	30
40	Characterization of oxide films on wrought Coâ€“Crâ€“Moâ€“xSi alloys exposed to high-temperature oxidation. <i>Corrosion Science</i> , 2021, 191, 109753.	6.6	5
41	Controlling factors determining flowability of powders for additive manufacturing: A combined experimental and simulation study. <i>Powder Technology</i> , 2021, 393, 482-493.	4.2	29
42	Effects of process parameters and cooling gas on powder formation during the plasma rotating electrode process. <i>Powder Technology</i> , 2021, 393, 301-311.	4.2	12
43	Synergetic strengthening in HfMoNbTaTi refractory high-entropy alloy via disordered nanoscale phase and semicoherent refractory particle. <i>Materials and Design</i> , 2021, 212, 110248.	7.0	30
44	Favorable modulation of osteoblast cellular activity on Zrâ€“modified Coâ€“Crâ€“Mo alloy: The significant impact of zirconium on cellâ€“substrate interactions. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 1518-1526.	3.4	5
45	Impacts of pre-strain on twin boundary mobility of magnesium. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152496.	5.5	18
46	Enhanced oxidation resistance of a titaniumâ€“based alloy by the addition of boron and the application of electron beam melting. <i>Additive Manufacturing</i> , 2020, 31, 100971.	3.0	3
47	Microstructure refinement for superior ductility of Alâ€“Si alloy by electron beam melting. <i>Additive Manufacturing</i> , 2020, 32, 100982.	3.0	25
48	Pattern formation mechanism of directionally-solidified MoSi2/Mo5Si3 eutectic by phase-field simulation. <i>Intermetallics</i> , 2020, 116, 106590.	3.9	10
49	Role of operating and environmental conditions in determining molten pool dynamics during electron beam melting and selective laser melting. <i>Additive Manufacturing</i> , 2020, 36, 101559.	3.0	24
50	Manufacturing of a nanosized TiB strengthened Ti-based alloy via electron beam powder bed fusion. <i>Additive Manufacturing</i> , 2020, 36, 101472.	3.0	5
51	Effects of plasma rotating electrode process parameters on the particle size distribution and microstructure of Ti-6Al-4V alloy powder. <i>Powder Technology</i> , 2020, 376, 363-372.	4.2	16
52	Centrifugal granulation behavior in metallic powder fabrication by plasma rotating electrode process. <i>Scientific Reports</i> , 2020, 10, 18446.	3.3	15
53	Corrosion mechanism of an equimolar AlCoCrFeNi high-entropy alloy additively manufactured by electron beam melting. <i>Npj Materials Degradation</i> , 2020, 4, .	5.8	55
54	Low Youngâ€™s Modulus and High Strength Obtained in Ti-Nb-Zr-Cr Alloys by Optimizing Zr Content. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 2871-2878.	2.5	6

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55	Roles of Mo and Cu on Electrochemical Behaviors of Ni-Base Alloys in Hydrofluoric Acid Solution. <i>Journal of the Electrochemical Society</i> , 2020, 167, 101502.	2.9	6
56	XPS Analysis of Oxide Formed on the Surface of Co-28Cr-6Mo-1Si Alloy Oxidized at 550°C. <i>Key Engineering Materials</i> , 2020, 845, 95-100.	0.4	1
57	A study on wettability and formation of intermetallic phase between Co-Cr-Mo alloy and Sn-Solder used as a potential under bump metallization for flip-chip packages. <i>Intermetallics</i> , 2020, 125, 106875.	3.9	5
58	Precipitation during β - γ Phase Transformation in Biomedical Co-Cr-Mo Alloys Fabricated by Electron Beam Melting. <i>Metals</i> , 2020, 10, 71.	2.3	7
59	Influence of Cu addition on corrosion behavior and tensile performance of Ni-30Co-16Cr-15Mo-6Fe alloy. <i>Materials Characterization</i> , 2020, 161, 110140.	4.4	13
60	Significance of powder feedstock characteristics in defect suppression of additively manufactured Inconel 718. <i>Additive Manufacturing</i> , 2020, 34, 101277.	3.0	14
61	Fabricating 9-12 Cr ferritic/martensitic steels using selective electron beam melting. <i>Materials Letters</i> , 2020, 271, 127747.	2.6	4
62	Isothermal β - γ phase transformation behavior in a Co-Cr-Mo alloy depending on thermal history during electron beam powder-bed additive manufacturing. <i>Journal of Materials Science and Technology</i> , 2020, 50, 162-170.	10.7	16
63	Process optimization and mechanical property investigation of non-weldable superalloy Alloy713ELC manufactured with selective electron beam melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 787, 139485.	5.6	11
64	Hot deformation characteristics and dynamic recrystallization mechanisms of a Co-Ni-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 788, 139638.	5.6	58
65	Influence of interatomic interactions on the mechanical properties of face-centered cubic multicomponent Co-Ni-Cr-Mo alloys. <i>Materialia</i> , 2020, 12, 100742.	2.7	9
66	Macro-mesoscale microstructural evolution modeling under hot forging of a Ti-17 alloy with a lamellar (β + β') starting microstructure. <i>MATEC Web of Conferences</i> , 2020, 321, 13005.	0.2	3
67	Mechanical Analysis of Notch-Free Pre-Bent Rods for Spinal Deformity Surgery. <i>Spine</i> , 2020, 45, E312-E318.	2.0	13
68	Preparation of high-strength Co-Cr-Mo alloy rods via hot-caliber rolling. <i>Materialia</i> , 2020, 12, 100729.	2.7	9
69	Manufacture and Material Characteristics of Titanium Alloy Thrusters for Attitude Control Using Electron Beam Additive Manufacturing. <i>Journal of the Japan Society for Precision Engineering</i> , 2020, 86, 925-929.	0.1	0
70	Cold-Workability and Microstructure Change with β -Phase Stability in High-Strength Ti-Mn Binary Alloys. <i>Jom</i> , 2019, 71, 3590-3599.	1.9	8
71	Effect of Nb Content on Microstructures and Mechanical Properties of Ti-xNb-2Fe Alloys. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 5501-5508.	2.5	15
72	Microstructure evolution and mechanical property of a precipitation-strengthened refractory high-entropy alloy HfNbTaTiZr. <i>Materials Letters</i> , 2019, 254, 46-49.	2.6	34

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73	Manipulating local heat accumulation towards controlled quality and microstructure of a Co-Cr-Mo alloy in powder bed fusion with electron beam. <i>Materials Letters</i> , 2019, 254, 269-272.	2.6	6
74	Introducing dislocations locally in Al-supersaturated Ti_{2}Al single crystal via nanoscale wedge indentation. <i>Intermetallics</i> , 2019, 113, 106557.	3.9	2
75	Corrosion-resistant carbide-reinforced martensitic steel by Cu modification. <i>Npj Materials Degradation</i> , 2019, 3, .	5.8	6
76	Development of strong and ductile metastable face-centered cubic single-phase high-entropy alloys. <i>Acta Materialia</i> , 2019, 181, 318-330.	7.9	134
77	Microstructural control of alloy 718 fabricated by electron beam melting with expanded processing window by adaptive offset method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 764, 138058.	5.6	24
78	High temperature oxidation behaviour of Ti^{3+} -strengthened Co-based superalloys with different Ni addition. <i>Corrosion Science</i> , 2019, 157, 109-115.	6.6	36
79	Effect of Al content and cold rolling on the microstructure and mechanical properties of $\text{Al}_{5}\text{Cr}_{12}\text{Fe}_{35}\text{Mn}_{28}\text{Ni}_{20}$ high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 759, 380-390.	5.6	39
80	Comprehensive study on mechanisms for grain morphology evolution and texture development in powder bed fusion with electron beam of Co-Cr-Mo alloy. <i>Materialia</i> , 2019, 6, 100346.	2.7	23
81	On microstructural homogenization and mechanical properties optimization of biomedical Co-Cr-Mo alloy additively manufactured by using electron beam melting. <i>Additive Manufacturing</i> , 2019, 28, 215-227.	3.0	38
82	The influence of temperature during water-quench rapid heat treatment on the microstructure, mechanical properties and biocompatibility of Ti 6Al 4V ELI alloy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 96, 144-151.	3.1	18
83	Abnormal grain growth in commercially pure titanium during additive manufacturing with electron beam melting. <i>Materialia</i> , 2019, 6, 100281.	2.7	37
84	Development of low-Young's modulus Ti-Nb-based alloys with Cr addition. <i>Journal of Materials Science</i> , 2019, 54, 8675-8683.	3.7	22
85	Simple method to construct process maps for additive manufacturing using a support vector machine. <i>Additive Manufacturing</i> , 2019, 27, 353-362.	3.0	81
86	Novel Co-rich high performance twinning-induced plasticity (TWIP) and transformation-induced plasticity (TRIP) high-entropy alloys. <i>Scripta Materialia</i> , 2019, 165, 39-43.	5.2	200
87	Low Springback and Low Young's Modulus in $\text{Ti-29Nb-13Ta-4.6Zr}$ Alloy Modified by Mo Addition. <i>Materials Transactions</i> , 2019, 60, 1755-1762.	1.2	5
88	Effects of Fe on Microstructures and Mechanical Properties of $\text{Ti-15Nb-25Zr-(0, 2, 4, 8)Fe}$ Alloys Prepared by Spark Plasma Sintering. <i>Materials Transactions</i> , 2019, 60, 1763-1768.	1.2	5
89	Effects of Si concentrations on microstructure and mechanical properties of as-cast Co-Cr-Mo alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 635, 012006.	0.6	5
90	Characterization of intermetallic phase in as-cast Si-doped Co-Cr-Mo alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 635, 012007.	0.6	1

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91	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
92	Novel Co-rich high entropy alloys with superior tensile properties. Materials Research Letters, 2019, 7, 82-88.	8.7	139
93	Effect of multipass thermomechanical processing on the corrosion behaviour of biomedical Co-Cr-Mo alloys. Corrosion Science, 2019, 148, 178-187.	6.6	27
94	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
95	Tuning strain-induced β -to- β' martensitic transformation of biomedical Co-Cr-Mo alloys by introducing parent phase lattice defects. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 90, 523-529.	3.1	25
96	A Constitutive Model and Processing Maps Describing the High-Temperature Deformation Behavior of Ti-17 Alloy in the β -Phase Field. Advanced Engineering Materials, 2019, 21, 1800775.	3.5	21
97	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
98	Quantitative and Qualitative Relationship between Microstructural Factors and Fatigue Lives under Load- and Strain-Controlled Conditions of Ti-5Al-2Sn-4Cr-4Mo (Ti-17) Fabricated Using a 1500-ton Forging Simulator. Materials Transactions, 2019, 60, 1740-1748.	1.2	4
99	Significant impact of yttrium microaddition on high temperature tensile properties of Inconel 713C superalloy. Materials Letters, 2018, 227, 40-43.	2.6	12
100	Porous surface structures in biomedical Co-Cr-Mo alloy prepared by local dealloying in a metallic melt. Materials Letters, 2018, 219, 256-259.	2.6	5
101	Osseointegration of 3D printed microalloyed CoCr implants—Addition of 0.04% Zr to CoCr does not alter bone material properties. Journal of Biomedical Materials Research - Part A, 2018, 106, 1655-1663.	4.0	17
102	Effects of carbon content and size on Ti-C reaction behavior and resultant properties of Cu-Ti-C alloy system. Materials Characterization, 2018, 141, 186-192.	4.4	7
103	High-temperature deformation behavior and microstructural characterization of high-Mn bearing titanium-based alloy. Materials Characterization, 2018, 139, 176-185.	4.4	19
104	Effect of nitrogen on the microstructure and mechanical properties of Co-33Cr-9W alloys prepared by dental casting. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 77, 693-700.	3.1	10
105	Fatigue improvement of electron beam melting-fabricated biomedical Co-Cr-Mo alloy by accessible heat treatment. Materials Research Letters, 2018, 6, 93-99.	8.7	40
106	Low Young's Modulus Ti-Nb-O with High Strength and Good Plasticity. Materials Transactions, 2018, 59, 858-860.	1.2	9
107	Serial Injections of Cryopreserved Fat at $\sim 196^\circ\text{C}$ for Tissue Rejuvenation, Scar Treatment, and Volume Augmentation. Plastic and Reconstructive Surgery - Global Open, 2018, 6, e1742.	0.6	11
108	Nitinol powders generate from Plasma Rotation Electrode Process provide clean powder for biomedical devices used with suitable size, spheroid surface and pure composition. Scientific Reports, 2018, 8, 13776.	3.3	12

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109	Electron beam melting of boron-modified Ti-6Al-2Sn-4Zr-2Mo-0.1Si alloy with superior tensile strength and oxidation resistance at elevated temperatures. <i>Materialia</i> , 2018, 4, 367-372.	2.7	21
110	Heterogeneous microstructures and corrosion resistance of biomedical Co-Cr-Mo alloy fabricated by electron beam melting (EBM). <i>Additive Manufacturing</i> , 2018, 24, 103-114.	3.0	32
111	Strain-Induced Martensitic Transformation and Texture Evolution in Cold-Rolled Co-Cr Alloys. <i>Quantum Beam Science</i> , 2018, 2, 11.	1.2	11
112	Microstructure refining of Co-29Cr-6Mo-0.16N alloy in rapid hot-forging process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 729, 48-52.	5.6	4
113	Impact of minor alloying with C and Si on the precipitation behavior and mechanical properties of N-doped Co-Cr alloy dental castings. <i>Materials Science and Engineering C</i> , 2018, 92, 112-120.	7.3	10
114	Mechanical and corrosion properties of AlCoCrFeNi high-entropy alloy fabricated with selective electron beam melting. <i>Additive Manufacturing</i> , 2018, 23, 264-271.	3.0	69
115	The influence of Mo on Suzuki-segregation-related microstructure evolution and mechanical properties of Co-Ni-based superalloy. <i>Journal of Alloys and Compounds</i> , 2018, 768, 136-142.	5.5	12
116	Electron beam additive manufacturing of Inconel 718 alloy rods: Impact of build direction on microstructure and high-temperature tensile properties. <i>Additive Manufacturing</i> , 2018, 23, 457-470.	3.0	60
117	Current status of Metal Additive Manufacturing and Microstructure Control of Metal Parts in Powder Bed Fusion. <i>Journal of Smart Processing</i> , 2018, 7, 216-222.	0.1	3
118	Continuous Measurements of Recrystallization and Grain Growth in Cobalt Super Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 2363-2374.	2.2	17
119	Influence of cobalt addition on microstructure and hot workability of IN713C superalloy. <i>Materials and Design</i> , 2017, 122, 340-346.	7.0	40
120	Study of microstructure evolution and properties of Cu-Fe microcomposites produced by a pre-alloyed powder method. <i>Materials and Design</i> , 2017, 126, 64-72.	7.0	39
121	Refinement of lamellar structures in Ti-Al alloy. <i>Acta Materialia</i> , 2017, 125, 81-97.	7.9	78
122	Effects of carbon addition on wear mechanisms of CoCrMo metal-on-metal hip joint bearings. <i>Materials Science and Engineering C</i> , 2017, 76, 997-1004.	7.3	21
123	Damping capacity of pre-compressed magnesium alloys after annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 708, 104-109.	5.6	23
124	Regulating twin boundary mobility by annealing in magnesium and its alloys. <i>International Journal of Plasticity</i> , 2017, 99, 1-18.	8.8	59
125	Stacking-fault strengthening of biomedical Co-Cr-Mo alloy via multipass thermomechanical processing. <i>Scientific Reports</i> , 2017, 7, 10808.	3.3	49
126	Strain-controlled iso-thermal fatigue behavior of Co-29Cr-6Mo used for tooling materials in Al die casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 703, 27-36.	5.6	20

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127	Ultrasound Diagnosis and Treatment of Breast Lumps after Breast Augmentation with Autologous Fat Grafting. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2017, 5, e1603.	0.6	13
128	Impact of solute elements on detwinning in magnesium and its alloys. <i>International Journal of Plasticity</i> , 2017, 91, 134-159.	8.8	81
129	Discontinuous yielding and microstructural evolution of Ti-40at.% Al alloy compressed in single ϵ -hcp phase region. <i>Journal of Alloys and Compounds</i> , 2017, 693, 1261-1276.	5.5	21
130	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. <i>Materials Letters</i> , 2017, 189, 148-151.	2.6	130
131	Effects of post-processing on cyclic fatigue response of a titanium alloy additively manufactured by electron beam melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 680, 239-248.	5.6	91
132	Forging property, processing map, and mesoscale microstructural evolution modeling of a Ti-17 alloy with a lamellar (ϵ + ϵ') starting microstructure. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 893-904.	6.1	31
133	Characterization of powder bed generation in electron beam additive manufacturing by discrete element method (DEM). <i>Materials Today: Proceedings</i> , 2017, 4, 11437-11440.	1.8	19
134	Fundamentals of Metal 3D Printing Technologies. <i>Materia Japan</i> , 2017, 56, 686-690.	0.1	20
135	Guide to Development of Innovative Joining Technology. <i>Yosetsu Gakkai Shi/Journal of the Japan Welding Society</i> , 2017, 86, 570-578.	0.1	0
136	CoCrMo cellular structures made by Electron Beam Melting studied by local tomography and finite element modelling. <i>Materials Characterization</i> , 2016, 116, 48-54.	4.4	22
137	Our Experience with 131 Cases of Simultaneous Breast Implant Exchange with Fat (SIEF). <i>Plastic and Reconstructive Surgery - Global Open</i> , 2016, 4, e691.	0.6	5
138	Quantitative in vivo biocompatibility of new ultralow-nickel cobalt-chromium-molybdenum alloys. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1505-1513.	2.3	13
139	Line-Profile Analysis Combined with Texture Analysis for Characterizing Dislocation Distribution in Texture Components of Cold-Rolled Copper Sheets. <i>High Temperature Materials and Processes</i> , 2016, 35, 705-713.	1.4	4
140	Dynamic recrystallization behavior of biomedical Co-29Cr-6Mo-0.16N alloy. <i>Materials Characterization</i> , 2016, 118, 50-56.	4.4	13
141	Dynamic recrystallization in biomedical Co-29Cr-6Mo-0.16N alloy with low stacking fault energy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 668, 86-96.	5.6	34
142	Investigation on hot deformation behavior of nanoscale TiC-strengthened Cu alloys fabricated by mechanical milling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 668, 1-12.	5.6	17
143	Effects of surface friction treatment on the in vitro release of constituent metals from the biomedical Co-29Cr-6Mo-0.16N alloy. <i>Materials Science and Engineering C</i> , 2016, 64, 260-268.	7.3	10
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