

Yuichiro Koizumi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Spinodal Decomposition in Plastically Deformed Fe-Cr-Co Magnet Alloy. <i>ISIJ International</i> , 2022, 62, 1268-1274.	1.4	3
4	Equiaxed grain formation by intrinsic heterogeneous nucleation via rapid heating and cooling in additive manufacturing of aluminum-silicon hypoeutectic alloy. <i>Journal of Alloys and Compounds</i> , 2022, 919, 165812.	5.5	21
5	Raking process for Powder Bed Fusion of Ti-6Al-4V alloy Powder Analyzed by Discrete Element Method. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2022, 72, 291-297.	0.4	1
6	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
7	Melting and Solidification Behavior of 316L Steel Induced by Electron-Beam Irradiation for Additive Manufacturing. <i>Journal of Smart Processing</i> , 2021, 10, 208-213.	0.1	2
8	Effect of Laser Power on the Microstructure and Mechanical Properties of Laser Powder Bed Fusion of Ti-6Al-4V. <i>Journal of Smart Processing</i> , 2021, 10, 214-221.	0.1	2
9	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
10	Modified Cellular Automaton Simulation of Metal Additive Manufacturing. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2021, 85, 103-109.	0.4	0
11	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
12	Modified Cellular Automaton Simulation of Metal Additive Manufacturing. <i>Materials Transactions</i> , 2021, 62, 864-870.	1.2	6
13	Inverse Columnar-Equiaxed Transition (CET) in 304 and 316L Stainless Steels Melt by Electron Beam for Additive Manufacturing (AM). <i>Crystals</i> , 2021, 11, 856.	2.2	20
14	Control of Crystallographic Texture and Mechanical Properties of Hastelloy-X via Laser Powder Bed Fusion. <i>Crystals</i> , 2021, 11, 1064.	2.2	22
15	Effect of Laser Power on the Microstructure and Mechanical Properties of Laser Powder Bed Fusion of Ti-6Al-4V. <i>Journal of Smart Processing</i> , 2021, 10, 214-221.	0.1	2
16	Enhanced oxidation resistance of a titanium-based alloy by the addition of boron and the application of electron beam melting. <i>Additive Manufacturing</i> , 2020, 31, 100971.	3.0	3
17	Pattern formation mechanism of directionally-solidified MoSi ₂ /Mo ₅ Si ₃ eutectic by phase-field simulation. <i>Intermetallics</i> , 2020, 116, 106590.	3.9	10
18	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

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19	Precipitation during $\hat{3}\text{-}\hat{1}\mu$ Phase Transformation in Biomedical Co-Cr-Mo Alloys Fabricated by Electron Beam Melting. <i>Metals</i> , 2020, 10, 71.	2.3	7
20	Isothermal $\hat{3}\text{-}\hat{1}\mu$ 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
21	Influence of CaO/SiO_2 on the Reduction Behavior of Sintered $\text{Fe}_2\text{O}_3\text{-CaO-SiO}_2\text{-Al}_2\text{O}_3$ Tablets at the Softening and Melting Temperatures. <i>ISIJ International</i> , 2020, 60, 1479-1486.	1.4	5
22	Simulations of Non-Equilibrium and Equilibrium Segregation in Nickel-Based Superalloy Using Modified Scheil-Gulliver and Phase-Field Methods. <i>Materials Transactions</i> , 2020, 61, 2072-2078.	1.2	14
23	Solidification and Process Optimization in Metal Additive Manufacturing. <i>Journal of Japan Institute of Electronics Packaging</i> , 2020, 23, 446-451.	0.1	0
24	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
25	Introducing dislocations locally in Al-supersaturated $\hat{1}\pm 2\text{-Ti3Al}$ single crystal via nanoscale wedge indentation. <i>Intermetallics</i> , 2019, 113, 106557.	3.9	2
26	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
27	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
28	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
29	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
30	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
31	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
32	Effect of process parameters on melt pool geometry and microstructure development for electron beam melting of IN718: A systematic single bead analysis study. <i>Additive Manufacturing</i> , 2019, 26, 215-226.	3.0	28
33	Novel Co-rich high entropy alloys with superior tensile properties. <i>Materials Research Letters</i> , 2019, 7, 82-88.	8.7	139
34	Numerical study on the effective stiffness of topology-optimized lattice structures made of orthotropic crystal grains with optimal orientation. <i>Computational Materials Science</i> , 2019, 159, 202-209.	3.0	7
35	Mechanical and corrosion properties of CoCrFeNiTi-based high-entropy alloy additive manufactured using selective laser melting. <i>Additive Manufacturing</i> , 2019, 25, 412-420.	3.0	54
36	Molten pool behavior and effect of fluid flow on solidification conditions in selective electron beam melting (SEBM) of a biomedical Co-Cr-Mo alloy. <i>Additive Manufacturing</i> , 2019, 26, 202-214.	3.0	69

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37	Optimization of Additive Manufacturing Process Utilizing Computer Simulation. Journal of Smart Processing, 2019, 8, 132-138.	0.1	6
38	Reduction Behavior of Iron Oxide and Influence of Basicity in Initial Melt Formation Zone. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2019, 105, 1099-1107.	0.4	1
39	Significant impact of yttrium microaddition on high temperature tensile properties of Inconel 713C superalloy. Materials Letters, 2018, 227, 40-43.	2.6	12
40	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
41	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
42	Low Young's Modulus Ti-Nb-O with High Strength and Good Plasticity. Materials Transactions, 2018, 59, 858-860.	1.2	9
43	Electron beam melting of boron-modified Ti-6Al-2Sn-4Zr-2Mo-0.1Si alloy with superior tensile strength and oxidation resistance at elevated temperatures. Materialia, 2018, 4, 367-372.	2.7	21
44	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
45	Mechanical and corrosion properties of AlCoCrFeNi high-entropy alloy fabricated with selective electron beam melting. Additive Manufacturing, 2018, 23, 264-271.	3.0	69
46	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
47	Isotropic Ti-6Al-4V lattice via topology optimization and electron-beam melting. Additive Manufacturing, 2018, 22, 634-642.	3.0	27
48	Current status of Metal Additive Manufacturing and Microstructure Control of Metal Parts in Powder Bed Fusion. Journal of Smart Processing, 2018, 7, 216-222.	0.1	3
49	Influence of cobalt addition on microstructure and hot workability of IN713C superalloy. Materials and Design, 2017, 122, 340-346.	7.0	40
50	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
51	Refinement of lamellar structures in Ti-Al alloy. Acta Materialia, 2017, 125, 81-97.	7.9	78
52	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
53	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
54	High-stiffness and strength porous maraging steel via topology optimization and selective laser melting. Additive Manufacturing, 2017, 18, 194-202.	3.0	36

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55	Regulating twin boundary mobility by annealing in magnesium and its alloys. International Journal of Plasticity, 2017, 99, 1-18.	8.8	59
56	Strain-controlled iso-thermal fatigue behavior of Co-29Cr-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
57	Porous metal produced by selective laser melting with effective isotropic thermal conductivity close to the Hashin-Shtrikman bound. International Journal of Heat and Mass Transfer, 2017, 105, 564-572.	4.8	43
58	Impact of solute elements on detwinning in magnesium and its alloys. International Journal of Plasticity, 2017, 91, 134-159.	8.8	81
59	Discontinuous yielding and microstructural evolution of Ti-40at.% Al alloy compressed in single ϵ -hcp phase region. Journal of Alloys and Compounds, 2017, 693, 1261-1276.	5.5	21
60	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
61	Characterization of powder bed generation in electron beam additive manufacturing by discrete element method (DEM). Materials Today: Proceedings, 2017, 4, 11437-11440.	1.8	19
62	Fundamentals of Metal 3D Printing Technologies. Materia Japan, 2017, 56, 686-690.	0.1	20
63	Guide to Development of Innovative Joining Technology. Yosetsu Gakkai Shi/Journal of the Japan Welding Society, 2017, 86, 570-578.	0.1	0
64	Quantitative in vivo biocompatibility of new ultralow-nickel cobalt-chromium-molybdenum alloys. Journal of Orthopaedic Research, 2016, 34, 1505-1513.	2.3	13
65	Dynamic recrystallization behavior of biomedical Co-29Cr-6Mo-0.16N alloy. Materials Characterization, 2016, 118, 50-56.	4.4	13
66	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
67	Investigation on hot deformation behavior of nanoscale TiC-strengthened Cu alloys fabricated by mechanical milling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 668, 1-12.	5.6	17
68	Effects of surface friction treatment on the in vitro release of constituent metals from the biomedical Co-29Cr-6Mo-0.16N alloy. Materials Science and Engineering C, 2016, 64, 260-268.	7.3	10
69	Precipitation behavior of a novel cobalt-based superalloy subjected to prior plastic deformations. Materials and Design, 2016, 112, 1-10.	7.0	24
70	Effect of Building Position on Phase Distribution in Co-Cr-Mo Alloy Additive Manufactured by EBM. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 10-16.	0.2	4
71	Effect of Building Position on Phase Distribution in Co-Cr-Mo Alloy Additive Manufactured by Electron-Beam Melting. Materials Transactions, 2016, 57, 2041-2047.	1.2	18
72	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

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73	Submicron lamellar porous structure formed by selective dissolution of Ti-Al alloy. Materials and Design, 2016, 98, 1-11.	7.0	25
74	Uneven damage on head and liner contact surfaces of a retrieved Co-Cr-based metal-on-metal hip joint bearing: An important reason for the high failure rate. Materials Science and Engineering C, 2016, 62, 532-543.	7.3	14
75	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
76	In-situ fabrication and characterization of ultrafine structured Cu-TiC composites with high strength and high conductivity by mechanical milling. Journal of Alloys and Compounds, 2016, 657, 122-132.	5.5	95
77	Superthermostability of nanoscale TiC-reinforced copper alloys manufactured by a two-step ball-milling process. Philosophical Magazine, 2015, 95, 4035-4053.	1.6	17
78	Control of γ lamella precipitation in Ti-39 at.% Al single crystals by nanogroove-induced dislocation bands. Acta Materialia, 2015, 96, 352-365.	7.9	18
79	Analysis of Run-in-Stage Wear Behavior and Contact Mechanics of Metal-on-Metal Hip Joint Bearings with Different Radial Clearances. Materials Transactions, 2015, 56, 826-834.	1.2	11
80	Osseointegration Enhancement by Zr doping of Co-Cr-Mo Implants Fabricated by Electron Beam Melting. Additive Manufacturing, 2015, 6, 6-15.	3.0	32
81	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
82	Nano-lamellar/nano-tubular hierarchical porous structure produced by selective dissolution and anodization of lamellar Ti-40at.% Al alloy. Materials Letters, 2015, 145, 15-18.	2.6	9
83	Enhanced damping capacity of magnesium alloys by tensile twin boundaries. Scripta Materialia, 2015, 101, 8-11.	5.2	80
84	Phase and grain size inhomogeneity and their influences on creep behavior of Co-Cr-Mo alloy additive manufactured by electron beam melting. Acta Materialia, 2015, 86, 305-318.	7.9	121
85	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
86	Effects of alloyed Si on the oxidation behaviour of Co-29Cr-6Mo alloy for solid-oxide fuel cell interconnects. Corrosion Science, 2015, 95, 88-99.	6.6	40
87	Mechanisms of lamellar structure formation and Cr interfacial segregation in C11b-MoSi ₂ /C40-NbSi ₂ dual phase silicide verified by a phase-field simulation incorporating elastic inhomogeneity. Computational Materials Science, 2015, 108, 358-366.	3.0	8
88	Influence of Mo concentration on corrosion resistance to HF acid solution of Ni-Co-Cr-Mo alloys with and without Cu. Corrosion Science, 2015, 99, 185-193.	6.6	29
89	Regulating the coarsening of the γ phase in superalloys. NPG Asia Materials, 2015, 7, e212-e212.	7.9	52
90	Ex-situ observation on the dissolution behaviour of Ni-16Cr-15Mo and Ni-30Co-16Cr-15Mo alloys in hydrofluoric acid. Corrosion Science, 2015, 90, 133-139.	6.6	20

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91	Mechanisms of Cr segregation to C11b/C40 lamellar interface in (Mo,Nb)Si ₂ duplex silicide: A phase-field study to bridge experimental and first-principles investigations. <i>Intermetallics</i> , 2014, 54, 232-241.	3.9	12
92	Detwinning in Mg alloy with a high density of twin boundaries. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 035003.	6.1	19
93	Cu-Ti-C alloy with high strength and high electrical conductivity prepared by two-step ball-milling processes. <i>Materials & Design</i> , 2014, 61, 70-74.	5.1	61
94	Microscopic mechanism of plastic deformation in a polycrystalline Co-Cr-Mo alloy with a single hcp phase. <i>Acta Materialia</i> , 2014, 64, 1-11.	7.9	30
95	Local strain evolution due to athermal $\beta \rightarrow \alpha'$ martensitic transformation in biomedical Co Cr Mo alloys. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 32, 52-61.	3.1	57
96	Effects of partially substituting cobalt for nickel on the corrosion resistance of a Ni-16Cr-15Mo alloy to aqueous hydrofluoric acid. <i>Corrosion Science</i> , 2014, 78, 101-110.	6.6	40
97	Effect of nitriding treatment on corrosion behaviour of Co-Cr-Mo alloy in liquid Al. <i>Corrosion Science</i> , 2014, 78, 244-250.	6.6	20
98	Role of strain-induced martensitic transformation on extrusion and intrusion formation during fatigue deformation of biomedical Co-Cr-Mo-N alloys. <i>Acta Materialia</i> , 2014, 81, 377-385.	7.9	35
99	Nanoplastic deformation on Ti-39 at.% Al single crystals for manipulation of every single β lamella. <i>Acta Materialia</i> , 2014, 76, 331-341.	7.9	8
100	Hot forging characteristic of Ti-5Al-5V-5Mo-3Cr alloy with single metastable β microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 611, 337-344.	5.6	85
101	Thermo-mechanical fatigue test of a wrought Co-based alloy as potential tooling material for die casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 615, 164-168.	5.6	11
102	Corrosion resistance of Cu- and Fe-modified Ni-30Co-16Cr-15Mo alloy in aqueous hydrofluoric acid. <i>Corrosion Science</i> , 2014, 89, 81-92.	6.6	27
103	Effects of cold working on corrosion resistance of Co-modified Ni-16Cr-15Mo alloy in hydrofluoric acid solution. <i>Corrosion Science</i> , 2014, 89, 258-267.	6.6	34
104	Effects of sigma phase and carbide on the wear behavior of CoCrMo alloys in Hanks' solution. <i>Wear</i> , 2014, 310, 51-62.	3.1	69
105	Effects of Al, Ti, and Zr doping on oxide film formation in Co-29Cr-6Mo alloy used as mould material for Al die-casting. <i>Corrosion Science</i> , 2014, 84, 147-158.	6.6	19
106	Nitriding of Co-Cr-Mo alloy in nitrogen. <i>Materials Chemistry and Physics</i> , 2014, 145, 350-356.	4.0	13
107	Build direction dependence of microstructure and high-temperature tensile property of Co-Cr-Mo alloy fabricated by electron beam melting. <i>Acta Materialia</i> , 2014, 64, 154-168.	7.9	163
108	Asymmetric slip trace formation in tension/compression cyclic deformation of biomedical Co-Cr-Mo-N alloy with negative stacking fault energy. <i>Scripta Materialia</i> , 2014, 74, 52-55.	5.2	15

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109	The hot forging behaviour and its effects on the oxidation behaviour of Wâ€“Cr alloy. Corrosion Science, 2014, 83, 367-374.	6.6	8
110	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
111	Effect of Phase Transformation on Tensile Behavior of Coâ€“Crâ€“Mo Alloy Fabricated by Electron-beam Melting. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2014, 61, 234-242.	0.2	9
112	Prototyping of Coâ€“Crâ€“Mo Alloy Flat Spiral Spring by Electron Beam Melting. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2014, 61, 243-249.	0.2	8
113	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
114	Selective pore growth on lamellar Tiâ€“41at.%Al alloy. Electrochemistry Communications, 2013, 26, 117-120.	4.7	10
115	Tribological properties of carbon/carbon composites with various pyrolytic carbon microstructures. Wear, 2013, 304, 103-108.	3.1	24
116	Microstructure evolution of SUS303 free-cutting steel during hot compression process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 583, 161-168.	5.6	18
117	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
118	Quantitative evaluation in hot workability of SUS303 free-cutting steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 563, 117-124.	5.6	9
119	Interfacial reaction between Coâ€“Crâ€“Mo alloy and liquid Al. Corrosion Science, 2013, 75, 262-268.	6.6	26
120	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
121	Experimental and theoretical research on interfacial reaction of solid Co with liquid Al. Corrosion Science, 2013, 73, 54-61.	6.6	23
122	Microstructures developed by super-rapid induction heating-and-quenching (SRIHQ) of Feâ€“1.4%Crâ€“1%C pearlitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 577, 29-35.	5.6	5
123	Grain refinement due to complex twin formation in rapid hot forging of magnesium alloy. Scripta Materialia, 2013, 68, 171-174.	5.2	25
124	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
125	Cr segregation at C11b/C40 interface in MoSi2-based alloys: A first-principles study. Intermetallics, 2013, 42, 165-169.	3.9	14
126	Phase-Field Study on the Segregation Mechanism of Additive Elements in NbSi2/MoSi2 Duplex Silicide. Materials Research Society Symposia Proceedings, 2013, 1516, 145-150.	0.1	4

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127	Phase-Field Simulation of Lamellar Structure Formation in MoSi ₂ /NbSi ₂ Duplex Silicide. Materials Research Society Symposia Proceedings, 2013, 1516, 309-315.	0.1	4
128	Dynamic Strain Aging in Biomedical Co-Cr-Mo-Based Alloys with Nitrogen Doping. Key Engineering Materials, 2012, 508, 141-145.	0.4	1
129	First-principles study on phase stability of MoSi ₂ -NbSi ₂ pseudobinary alloys. Physical Review B, 2012, 85, .	3.2	6
130	Phase-Field Study of Ordered Domain Growth and Segregation in Intermetallics. Materia Japan, 2012, 51, 53-61.	0.1	0
131	Dynamic Phase Transformation during Hot-Forging Process of a Powder Metallurgy α + β ; Titanium Alloy. Materials Transactions, 2012, 53, 1007-1010.	1.2	7
132	Interfacial reactions of solid Co and solid Fe with liquid Al. Corrosion Science, 2012, 60, 32-37.	6.6	37
133	Influence of carbon and nitrogen addition on microstructure and hot deformation behavior of biomedical Co-Cr-Mo alloy. Materials Chemistry and Physics, 2012, 135, 849-854.	4.0	23
134	Enhanced Grain Refinement Through Deformation Induced δ Precipitation in Hot Working of Ti-6Al-4V Titanium Alloy. Advanced Engineering Materials, 2012, 14, 785-789.	3.5	7
135	Suzuki segregation in Co-Ni-based superalloy at 973 K: An experimental and computational study by phase-field simulation. Acta Materialia, 2012, 60, 2901-2915.	7.9	79
136	Role of nitrogen addition in stabilizing the δ phase of Biomedical Co-29Cr-6Mo alloy. Materials Chemistry and Physics, 2012, 133, 29-32.	4.0	37
137	Evaluation of Ordering Mobility from Antiphase Boundary Mobility in Fe ₃ Al Using Phase-field Simulation. ISIJ International, 2012, 52, 1678-1682.	1.4	3
138	Interfacial reactions between molten Al and a Co-Cr-Mo alloy with and without oxidation treatment. Corrosion Science, 2011, 53, 4324-4326.	6.6	34
139	Construction of Processing Map for Biomedical Co-29Cr-6Mo-0.23C-0.14N Alloy by Using Compression Tests. Materials Transactions, 2011, 52, 780-786.	1.2	9
140	Phase-Field Simulation of Antiphase Boundary Migration in Intermetallic Compounds with Solute and Vacancy Segregation. Materials Research Society Symposia Proceedings, 2011, 1295, 437.	0.1	3
141	Effect of impurity atoms on δ/δ lamellar interfacial misfit in Ti-Al alloy: a systematic first principles study. Philosophical Magazine, 2011, 91, 3685-3704.	1.6	7
142	Development of Novel Methods for Compensation of Stress-strain Curves. ISIJ International, 2011, 51, 782-787.	1.4	13
143	Selective dissolution of nanolamellar Ti-41 at.% Al alloy single crystals. Acta Materialia, 2010, 58, 2876-2886.	7.9	25
144	Effects of plastic deformation on lamellar structure formation in Ti-39at.% Al single crystals. Acta Materialia, 2010, 58, 1104-1115.	7.9	25

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145	Phase-Field Simulation of Antiphase Boundary Migration in Slightly Off-stoichiometric Fe ₃ Al with Solute and Vacancy Segregation. Transactions of the Materials Research Society of Japan, 2010, 35, 209-215.	0.2	2
146	Effects of solute and vacancy segregation on antiphase boundary migration in stoichiometric and Al-rich Fe ₃ Al: A phase-field simulation study. Intermetallics, 2010, 18, 1297-1302.	3.9	12
147	Effects of substitutional impurity Au and Si atoms on antiphase boundary energies in Ti ₃ Al: A first principles study. Philosophical Magazine, 2010, 90, 3919-3934.	1.6	3
148	Magneto-mechanical and Pseudoelastic Damping of Fe-Al Based Single Crystals. ISIJ International, 2009, 49, 1630-1635.	1.4	7
149	Anomalous growth of antiphase domains in Ti ₃ Al. Scripta Materialia, 2009, 60, 144-147.	5.2	6
150	Metallurgical aspects on the formation of self-organized anodic oxide nanotube layers. Electrochimica Acta, 2009, 54, 5155-5162.	5.2	37
151	Diffusion of Au in the Intermetallic Compound Ti ₃ Al. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 2919-2926.	2.2	2
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