Yuichiro Koizumi

List of Publications by Year
in descending order

194	5,586	101384	110170
papers	citations	36 h-index	64 g-index

203	203	203	3801
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermophysical properties of liquid Coâ€"Crâ€"Mo alloys measured by electromagnetic levitation in a static magnetic field. Thermochimica Acta, 2022, 708, 179119.	1.2	5
2	Density, surface tension, and viscosity of Co-Cr-Mo melts measured using electrostatic levitation technique. Thermochimica Acta, 2022, 710, 179183.	1.2	7
3	Spinodal Decomposition in Plastically Deformed Feâ€"Crâ€"Co Magnet Alloy. ISIJ International, 2022, 62, 1268-1274.	0.6	3
4	Equiaxed grain formation by intrinsic heterogeneous nucleation via rapid heating and cooling in additive manufacturing of aluminum-silicon hypoeutectic alloy. Journal of Alloys and Compounds, 2022, 919, 165812.	2.8	21
5	Raking process for Powder Bed Fusion of Ti-6Al-4V alloy Powder Analyzed by Discrete Element Method. Keikinzoku/Journal of Japan Institute of Light Metals, 2022, 72, 291-297.	0.1	1
6	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.	1.7	30
7	Melting and Solidification Behavior of 316L Steel Induced by Electron-Beam Irradiation for Additive Manufacturing. Journal of Smart Processing, 2021, 10, 208-213.	0.0	2
8	ãƒ•ã‚§ãƒ¼ã‚ºãƒ•ã‚£ãƒ¼ãƒ«ãƒ‰æ³•ã«ã'ˆã‚‹ Ni åŸºè¶…åˆé‡'ä»˜åŠè£½é€ ã«ãŠã'ã‚‹å‡å›ºåæžä º^æ¸¬. Journal of Smart Processing, 2021, 10,	0.0	0
9	Spinodal Decomposition in Plastically Deformed Fe-Cr-Co Magnet Alloy. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2021, 107, 146-153.	0.1	0
10	Modified Cellular Automaton Simulation of Metal Additive Manufacturing. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2021, 85, 103-109.	0.2	0
11	Thermal properties of powder beds in energy absorption and heat transfer during additive manufacturing with electron beam. Powder Technology, 2021, 381, 44-54.	2.1	27
12	Modified Cellular Automaton Simulation of Metal Additive Manufacturing. Materials Transactions, 2021, 62, 864-870.	0.4	6
13	Inverse Columnar-Equiaxed Transition (CET) in 304 and 316L Stainless Steels Melt by Electron Beam for Additive Manufacturing (AM). Crystals, 2021, 11, 856.	1.0	20
14	Control of Crystallographic Texture and Mechanical Properties of Hastelloy-X via Laser Powder Bed Fusion. Crystals, 2021, 11, 1064.	1.0	22
15	é‡'å±žç©å±¤é€ å½¢ã«ãŠã'ã‚‹ãƒ‡ã‚¸ã‚¿ãƒ«ãƒ„ã‚¤ãƒ³æ§‹ç¯‰ã®ãŸã‚ã®è¨ˆç®—ç§'å¦ ã¨ãƒ‡ãƒ¼ã‚¿ç§'å¦. Journal of Smart Processing, 2021, 10	0.0	0
16	Enhanced oxidation resistance of a titaniumâ€"based alloy by the addition of boron and the application of electron beam melting. Additive Manufacturing, 2020, 31, 100971.	1.7	3
17	Pattern formation mechanism of directionally-solidified MoSi2/Mo5Si3 eutectic by phase-field simulation. Intermetallics, 2020, 116, 106590.	1.8	10
18	Manufacturing of a nanosized TiB strengthened Ti-based alloy via electron beam powder bed fusion. Additive Manufacturing, 2020, 36, 101472.	1.7	5

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19	Precipitation during Î³-Îµ Phase Transformation in Biomedical Co-Cr-Mo Alloys Fabricated by Electron Beam Melting. Metals, 2020, 10, 71.	1.0	7
20	Isothermal Î³ â†' Îµ phase transformation behavior in a Co-Cr-Mo alloy depending on thermal history during electron beam powder-bed additive manufacturing. Journal of Materials Science and Technology, 2020, 50, 162-170.	5.6	16
21	Influence of CaO/SiO₂ on the Reduction Behavior of Sintered Fe₂O₃â€"CaOâ€"SiO₂â€"Al₂O₃ Tablets at the Softening and Melting Temperatures. ISIJ International, 2020, 60, 1479-1486.	0.6	5
22	Simulations of Non-Equilibrium and Equilibrium Segregation in Nickel-Based Superalloy Using Modified Scheil-Gulliver and Phase-Field Methods. Materials Transactions, 2020, 61, 2072-2078.	0.4	14
23	Solidification and Process Optimization in Metal Additive Manufacturing. Journal of Japan Institute of Electronics Packaging, 2020, 23, 446-451.	0.0	0
24	Manipulating local heat accumulation towards controlled quality and microstructure of a Co-Cr-Mo alloy in powder bed fusion with electron beam. Materials Letters, 2019, 254, 269-272.	1.3	6
25	Introducing dislocations locally in Al-supersaturated Î±2-Ti3Al single crystal via nanoscale wedge indentation. Intermetallics, 2019, 113, 106557.	1.8	2
26	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.	2.6	24
27	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.	1.3	23
28	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.	1.7	38
29	Development of low-Youngâ€™s modulus Tiâ€"Nb-based alloys with Cr addition. Journal of Materials Science, 2019, 54, 8675-8683.	1.7	22
30	Novel Co-rich high performance twinning-induced plasticity (TWIP) and transformation-induced plasticity (TRIP) high-entropy alloys. Scripta Materialia, 2019, 165, 39-43.	2.6	200
31	Low Springback and Low Youngâ€™s Modulus in Tiâ€"29Nbâ€"13Taâ€"4.6Zr Alloy Modified by Mo Addition. Materials Transactions, 2019, 60, 1755-1762.	0.4	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. Additive Manufacturing, 2019, 26, 215-226.	1.7	28
33	Novel Co-rich high entropy alloys with superior tensile properties. Materials Research Letters, 2019, 7, 82-88.	4.1	139
34	Numerical study on the effective stiffness of topology-optimized lattice structures made of orthotropic crystal grains with optimal orientation. Computational Materials Science, 2019, 159, 202-209.	1.4	7
35	Mechanical and corrosion properties of CoCrFeNiTi-based high-entropy alloy additive manufactured using selective laser melting. Additive Manufacturing, 2019, 25, 412-420.	1.7	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. Additive Manufacturing, 2019, 26, 202-214.	1.7	69

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37	Optimization of Additive Manufacturing Process Utilizing Computer Simulation. Journal of Smart Processing, 2019, 8, 132-138.	0.0	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.	0.1	1
39	Significant impact of yttrium microaddition on high temperature tensile properties of Inconel 713C superalloy. Materials Letters, 2018, 227, 40-43.	1.3	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.	1.3	5
41	Fatigue improvement of electron beam melting-fabricated biomedical Coâ€“Crâ€“Mo alloy by accessible heat treatment. Materials Research Letters, 2018, 6, 93-99.	4.1	40
42	Low Youngâ€™s Modulus Tiâ€“Nbâ€“O with High Strength and Good Plasticity. Materials Transactions, 2018, 59, 858-860.	0.4	9
43	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.	1.3	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.	1.7	32
45	Mechanical and corrosion properties of AlCoCrFeNi high-entropy alloy fabricated with selective electron beam melting. Additive Manufacturing, 2018, 23, 264-271.	1.7	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.	1.7	60
47	Isotropic Tiâ€“6Alâ€“4V lattice via topology optimization and electron-beam melting. Additive Manufacturing, 2018, 22, 634-642.	1.7	27
48	Current status of Metal Additive Manufacturing and Microstructure Control of Metal Parts in Powder Bed Fusionï¼ˆPBFï¼‰. Journal of Smart Processing, 2018, 7, 216-222.	0.0	3
49	Influence of cobalt addition on microstructure and hot workability of IN713C superalloy. Materials and Design, 2017, 122, 340-346.	3.3	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.	3.3	39
51	Refinement of lamellar structures in Ti-Al alloy. Acta Materialia, 2017, 125, 81-97.	3.8	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.	3.8	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.	2.6	23
54	High-stiffness and strength porous maraging steel via topology optimization and selective laser melting. Additive Manufacturing, 2017, 18, 194-202.	1.7	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.	4.1	59
56	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.	2.6	20
57	Porous metal produced by selective laser melting with effective isotropic thermal conductivity close to the Hashinâ€“Shtrikman bound. International Journal of Heat and Mass Transfer, 2017, 105, 564-572.	2.5	43
58	Impact of solute elements on detwinning in magnesium and its alloys. International Journal of Plasticity, 2017, 91, 134-159.	4.1	81
59	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.	2.8	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.	1.3	130
61	Characterization of powder bed generation in electron beam additive manufacturing by discrete element method (DEM). Materials Today: Proceedings, 2017, 4, 11437-11440.	0.9	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.	0.0	0
64	Quantitative in vivo biocompatibility of new ultralowâ€nickel cobaltâ€“chromiumâ€“molybdenum alloys. Journal of Orthopaedic Research, 2016, 34, 1505-1513.	1.2	13
65	Dynamic recrystallization behavior of biomedical Co-29Cr-6Mo-0.16N alloy. Materials Characterization, 2016, 118, 50-56.	1.9	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.	2.6	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.	2.6	17
68	Effects of surface friction treatment on the in vitro release of constituent metals from the biomedical Coâ€“29Crâ€“6Moâ€“0.16N alloy. Materials Science and Engineering C, 2016, 64, 260-268.	3.8	10
69	Precipitation behavior of a novel cobalt-based superalloy subjected to prior plastic deformations. Materials and Design, 2016, 112, 1-10.	3.3	24
70	Effect of Building Position on Phase Distribution in Co-Cr-Mo Alloy Additive Manufactured by EBM. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 10-16.	0.1	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.	0.4	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.	1.7	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.	3.3	25
74	Uneven damage on head and liner contact surfaces of a retrieved Coâ€“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.	3.8	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.	2.6	144
76	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.	2.8	95
77	Superthermostability of nanoscale TIC-reinforced copper alloys manufactured by a two-step ball-milling process. Philosophical Magazine, 2015, 95, 4035-4053.	0.7	17
78	Control of Î³ lamella precipitation in Tiâ€“39 at.% Al single crystals by nanogroove-induced dislocation bands. Acta Materialia, 2015, 96, 352-365.	3.8	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.	0.4	11
80	Osseointegration Enhancement by Zr doping of Co-Cr-Mo Implants Fabricated by Electron Beam Melting. Additive Manufacturing, 2015, 6, 6-15.	1.7	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.	1.3	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.	1.3	9
83	Enhanced damping capacity of magnesium alloys by tensile twin boundaries. Scripta Materialia, 2015, 101, 8-11.	2.6	80
84	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.	3.8	121
85	Regulating the passive film of NiCoCrMo alloy in hydrofluoric acid solution by small addition of Cu. Corrosion Science, 2015, 98, 119-127.	3.0	27
86	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.	3.0	40
87	Mechanisms of lamellar structure formation and Cr interfacial segregation in C11b-MoSi2/C40-NbSi2 dual phase silicide verified by a phase-field simulation incorporating elastic inhomogeneity. Computational Materials Science, 2015, 108, 358-366.	1.4	8
88	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.	3.0	29
89	Regulating the coarsening of the Î³â€² phase in superalloys. NPG Asia Materials, 2015, 7, e212-e212.	3.8	52
90	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.	3.0	20

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91	Mechanisms of Cr segregation to C11b/C40 lamellar interface in (Mo,Nb)Si2 duplex silicide: A phase-field study to bridge experimental and first-principles investigations. Intermetallics, 2014, 54, 232-241.	1.8	12
92	Detwining in Mg alloy with a high density of twin boundaries. Science and Technology of Advanced Materials, 2014, 15, 035003.	2.8	19
93	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
94	Microscopic mechanism of plastic deformation in a polycrystalline Coâ€“Crâ€“Mo alloy with a single hcp phase. Acta Materialia, 2014, 64, 1-11.	3.8	30
95	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.	1.5	57
96	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.	3.0	40
97	Effect of nitriding treatment on corrosion behaviour of Coâ€“Crâ€“Mo alloy in liquid Al. Corrosion Science, 2014, 78, 244-250.	3.0	20
98	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.	3.8	35
99	Nanoplastic deformation on Tiâ€“39 at.% Al single crystals for manipulation of every single Î³ lamella. Acta Materialia, 2014, 76, 331-341.	3.8	8
100	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.	2.6	85
101	Thermo-mechanical fatigue test of a wrought Co-based alloy as potential tooling material for die casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 615, 164-168.	2.6	11
102	Corrosion resistance of Cu- and Fe-modified Niâ€“30Coâ€“16Crâ€“15Mo alloy in aqueous hydrofluoric acid. Corrosion Science, 2014, 89, 81-92.	3.0	27
103	Effects of cold working on corrosion resistance of Co-modified Niâ€“16Crâ€“15Mo alloy in hydrofluoric acid solution. Corrosion Science, 2014, 89, 258-267.	3.0	34
104	Effects of sigma phase and carbide on the wear behavior of CoCrMo alloys in Hanks' solution. Wear, 2014, 310, 51-62.	1.5	69
105	Effects of Al, Ti, and Zr doping on oxide film formation in Coâ€“29Crâ€“6Mo alloy used as mould material for Al die-casting. Corrosion Science, 2014, 84, 147-158.	3.0	19
106	Nitriding of Coâ€“Crâ€“Mo alloy in nitrogen. Materials Chemistry and Physics, 2014, 145, 350-356.	2.0	13
107	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.	3.8	163
108	Asymmetric slip trace formation in tension/compression cyclic deformation of biomedical Coâ€“Crâ€“Moâ€“N alloy with negative stacking fault energy. Scripta Materialia, 2014, 74, 52-55.	2.6	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.	3.0	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.	2.6	24
111	Effect of Phase Transformation on Tensile Behavior of Coâ€“Crâ€“Mo Alloy Fabricated by Electron-beam Melting. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2014, 61, 234-242.	0.1	9
112	Prototyping of Coâ€“Crâ€“Mo Alloy Flat Spiral Spring by Electron Beam Melting. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2014, 61, 243-249.	0.1	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.	1.1	44
114	Selective pore growth on lamellar Tiâ€“41at.%Al alloy. Electrochemistry Communications, 2013, 26, 117-120.	2.3	10
115	Tribological properties of carbon/carbon composites with various pyrolytic carbon microstructures. Wear, 2013, 304, 103-108.	1.5	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.	2.6	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.	3.0	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.	2.6	9
119	Interfacial reaction between Coâ€“Crâ€“Mo alloy and liquid Al. Corrosion Science, 2013, 75, 262-268.	3.0	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.	3.8	140
121	Experimental and theoretical research on interfacial reaction of solid Co with liquid Al. Corrosion Science, 2013, 73, 54-61.	3.0	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.	2.6	5
123	Grain refinement due to complex twin formation in rapid hot forging of magnesium alloy. Scripta Materialia, 2013, 68, 171-174.	2.6	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.	1.1	23
125	Cr segregation at C11b/C40 interface in MoSi2-based alloys: A first-principles study. Intermetallics, 2013, 42, 165-169.	1.8	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 MoSi2/NbSi2 Duplex Silicide. Materials Research Society Symposia Proceedings, 2013, 1516, 309-315.	0.1	4
128	Dynamic Strain Aging in Biomedical Coâ€“Crâ€“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<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>-NbSi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math> pseudobinary alloys. Physical Review B, 2012, 85, .	1.1	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.	0.4	7
132	Interfacial reactions of solid Co and solid Fe with liquid Al. Corrosion Science, 2012, 60, 32-37.	3.0	37
133	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.	2.0	23
134	Enhanced Grain Refinement Through Deformation Induced Î± Precipitation in Hot Working of Î±â€‰+â€‰Î² Titanium Alloy. Advanced Engineering Materials, 2012, 14, 785-789.	1.6	7
135	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.	3.8	79
136	Role of nitrogen addition in stabilizing the Î³ phase of Biomedical Coâ€“29Crâ€“6Mo alloy. Materials Chemistry and Physics, 2012, 133, 29-32.	2.0	37
137	Evaluation of Ordering Mobility from Antiphase Boundary Mobility in Fe3Al Using Phase-field Simulation. ISIJ International, 2012, 52, 1678-1682.	0.6	3
138	Interfacial reactions between molten Al and a Coâ€“Crâ€“Mo alloy with and without oxidation treatment. Corrosion Science, 2011, 53, 4324-4326.	3.0	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.	0.4	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 Î±2/Î³ lamellar interfacial misfit in Tiâ€“Al alloy: a systematic first principles study. Philosophical Magazine, 2011, 91, 3685-3704.	0.7	7
142	Development of Novel Methods for Compensation of Stress-strain Curves. ISIJ International, 2011, 51, 782-787.	0.6	13
143	Selective dissolution of nanolamellar Tiâ€“41 at.% Al alloy single crystals. Acta Materialia, 2010, 58, 2876-2886.	3.8	25
144	Effects of plastic deformation on lamellar structure formation in Tiâ€“39at.% Al single crystals. Acta Materialia, 2010, 58, 1104-1115.	3.8	25

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145	Phase-Field Simulation of Antiphase Boundary Migration in Slightly Off-stoichiometric Fe₃Al 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 Fe3Al: A phase-field simulation study. Intermetallics, 2010, 18, 1297-1302.	1.8	12
147	Effects of substitutional impurity Au and Si atoms on antiphase boundary energies in Ti3Al: A first principles study. Philosophical Magazine, 2010, 90, 3919-3934.	0.7	3
148	Magneto-mechanical and Pseudoelastic Damping of Feâ€“Al Based Single Crystals. ISIJ International, 2009, 49, 1630-1635.	0.6	7
149	Anomalous growth of antiphase domains in Ti3Al. Scripta Materialia, 2009, 60, 144-147.	2.6	6
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151	Diffusion of Au in the Intermetallic Compound Ti3Al. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 2919-2926.	1.1	2
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