Katsuyoshi Kondoh

List of Publications by Year
in descending order

172	4,913	109321	118850
papers	citations	35 h-index	62 g-index

182	182	182	2762
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Load transfer strengthening in carbon nanotubes reinforced metal matrix composites via in-situ tensile tests. Composites Science and Technology, 2015, 113, 1-8.	7.8	236
2	Characteristics of powder metallurgy pure titanium matrix composite reinforced with multi-wall carbon nanotubes. Composites Science and Technology, 2009, 69, 1077-1081.	7.8	204
3	Powder metallurgy titanium metal matrix composites reinforced with carbon nanotubes and graphite. Composites Part A: Applied Science and Manufacturing, 2013, 48, 57-66.	7.6	202
4	Strengthening behavior of in situ -synthesized (TiCâ€“TiB)/Ti composites by powder metallurgy and hot extrusion. Materials and Design, 2016, 95, 127-132.	7.0	181
5	An approach for homogeneous carbon nanotube dispersion in Al matrix composites. Materials & Design, 2015, 72, 1-8.	5.1	159
6	Powder metallurgy Tiâ€“TiC metal matrix composites prepared by in situ reactive processing of Ti-VGCFs system. Carbon, 2013, 61, 216-228.	10.3	148
7	Microstructural and mechanical analysis of carbon nanotube reinforced magnesium alloy powder composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4103-4108.	5.6	129
8	High-purification of amorphous silica originated from rice husks by combination of polysaccharide hydrolysis and metallic impurities removal. Industrial Crops and Products, 2010, 32, 539-544.	5.2	125
9	Fabrication of high-strength Ti materials by in-process solid solution strengthening of oxygen via P/M methods. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 563, 95-100.	5.6	114
10	Microstructure and mechanical properties of P/M titanium matrix composites reinforced by in-situ synthesized TiCâ€“TiB. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 75-83.	5.6	113
11	In Situ Synthesized Al₄C₃ Nanorods with Excellent Strengthening Effect in Aluminum Matrix Composites. Advanced Engineering Materials, 2014, 16, 972-975.	3.5	106
12	High-temperature properties of extruded titanium composites fabricated from carbon nanotubes coated titanium powder by spark plasma sintering and hot extrusion. Composites Science and Technology, 2012, 72, 1291-1297.	7.8	101
13	Fabrication of carbon nanotube reinforced Al composites with well-balanced strength and ductility. Journal of Alloys and Compounds, 2013, 563, 216-220.	5.5	89
14	Interfacial analysis between Mg matrix and carbon nanotubes in Mgâ€“6wt.% Al alloy matrix composites reinforced with carbon nanotubes. Composites Science and Technology, 2011, 71, 705-709.	7.8	87
15	Wettability of pure Ti by molten pure Mg droplets. Acta Materialia, 2010, 58, 606-614.	7.9	83
16	Microstructural and mechanical properties of titanium particulate reinforced magnesium composite materials. Materials Chemistry and Physics, 2010, 123, 649-657.	4.0	77
17	The influence of carbon nanotubes on the corrosion behaviour of AZ31B magnesium alloy. Corrosion Science, 2010, 52, 3917-3923.	6.6	75
18	Regulation of interface between carbon nanotubes-aluminum and its strengthening effect in CNTs reinforced aluminum matrix nanocomposites. Carbon, 2019, 155, 686-696.	10.3	75

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19	Microstructure and synergistic-strengthening efficiency of CNTs-SiCp dual-nano reinforcements in aluminum matrix composites. Composites Part A: Applied Science and Manufacturing, 2018, 105, 87-96.	7.6	72
20	Microstructural and mechanical behavior of multi-walled carbon nanotubes reinforced Alâ€“Mgâ€“Si alloy composites in aging treatment. Carbon, 2014, 72, 15-21.	10.3	70
21	A novel strengthening effect of in-situ nano Al2O3w on CNTs reinforced aluminum matrix nanocomposites and the matched strengthening mechanisms. Journal of Alloys and Compounds, 2018, 764, 279-288.	5.5	65
22	Characteristics and machinability of lead-free P/M Cu60â€“Zn40 brass alloys dispersed with graphite. Powder Technology, 2010, 198, 417-421.	4.2	63
23	Carbon nanotube induced microstructural characteristics in powder metallurgy Al matrix composites and their effects on mechanical and conductive properties. Journal of Alloys and Compounds, 2015, 651, 608-615.	5.5	60
24	High-purity amorphous silica originated in rice husks via carboxylic acid leaching process. Journal of Materials Science, 2008, 43, 7084-7090.	3.7	59
25	Fabrication of magnesium based composites reinforced with carbon nanotubes having superior mechanical properties. Materials Chemistry and Physics, 2011, 127, 451-458.	4.0	56
26	Size effect of B4C powders on metallurgical reaction and resulting tensile properties of Ti matrix composites by in-situ reaction from Tiâ€“B4C system under a relatively low temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 614, 129-135.	5.6	53
27	Advanced mechanical properties of powder metallurgy commercially pure titanium with a high oxygen concentration. Journal of Materials Research, 2017, 32, 3769-3776.	2.6	51
28	Synergistic strengthening mechanisms of copper matrix composites with TiO2 nanoparticles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138797.	5.6	51
29	Reduction mechanism of surface oxide in aluminum alloy powders containing magnesium studied by x-ray photoelectron spectroscopy using synchrotron radiation. Applied Physics Letters, 1997, 70, 3615-3617.	3.3	50
30	Effect of grain size on the microstructure and mechanical properties of friction stir welded non-combustive magnesium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 549, 176-184.	5.6	45
31	Friction and wear behavior of sintered magnesium composite reinforced with CNT-Mg2Si/MgO. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 504, 157-162.	5.6	44
32	High-strength, lead-free machinable Î±â€“Î² duplex phase brass Cuâ€“40Znâ€“Crâ€“Feâ€“Snâ€“Bi alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 529, 275-281.	5.6	44
33	Quantitative Analysis on Light Elements Solution Strengthening in Pure Titanium Sintered Materials by Labusch Model Using Experimental Data. Materials Transactions, 2019, 60, 263-268.	1.2	43
34	Effect of deformation on the microstructure, transformation temperature and superelasticity of Tiâ€“23 at% Nb shape-memory alloys. Materials and Design, 2017, 118, 152-162.	7.0	40
35	The texture and anisotropy of hot extruded magnesium alloys fabricated via rapid solidification powder metallurgy. Materials & Design, 2011, 32, 4590-4597.	5.1	39
36	Improvement of Adhesion and Cohesion in Plasma-Sprayed Ceramic Coatings by Heterogeneous Modification of Nonbonded Lamellar Interface Using High Strength Adhesive Infiltration. Journal of Thermal Spray Technology, 2013, 22, 36-47.	3.1	39

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37	<I>In-situ</I> Synthesis of Mg₂Si Intermetallics via Powder Metallurgy Process. Materials Transactions, 2003, 44, 981-985.	1.2	38
38	Friction behavior of network-structured CNT coating on pure titanium plate. Applied Surface Science, 2015, 357, 721-727.	6.1	38
39	Microstructures and mechanical responses of powder metallurgy non-combustive magnesium extruded alloy by rapid solidification process in mass production. Materials & Design, 2010, 31, 1540-1546.	5.1	35
40	TiB nano-whiskers reinforced titanium matrix composites with novel nano-reticulated microstructure and high performance via composite powder by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 799, 140137.	5.6	35
41	Process Parameters Optimization in Preparing High-Purity Amorphous Silica Originated from Rice Husks. Materials Transactions, 2007, 48, 3095-3100.	1.2	34
42	Nano-scale AlN powders and AlN/Al composites by full and partial direct nitridation of aluminum in solid-state. Journal of Alloys and Compounds, 2015, 629, 184-187.	5.5	34
43	Optimization of mechanical properties of fine-grained non-combustive magnesium alloy joint by asymmetrical double-sided friction stir welding. Journal of Materials Processing Technology, 2017, 242, 117-125.	6.3	34
44	CNTs/TiC Reinforced Titanium Matrix Nanocomposites via Powder Metallurgy and Its Microstructural and Mechanical Properties. Journal of Nanomaterials, 2008, 2008, 1-4.	2.7	33
45	Fabrication and properties of lead-free machinable brass with Ti additive by powder metallurgy. Powder Technology, 2011, 205, 242-249.	4.2	33
46	Stability of strengthening effect of in situ formed TiCp and TiBw on the elevated temperature strength of (TiCp+TiBw)/Ti composites. Journal of Alloys and Compounds, 2014, 614, 29-34.	5.5	33
47	Microstructural evolution and competitive reaction behavior of Ti-B4C system under solid-state sintering. Journal of Alloys and Compounds, 2016, 687, 1004-1011.	5.5	32
48	Hybrid effect of TiCp and TiBw co-strengthening Ti matrix composites prepared by spark plasma sintering and hot extrusion. Materials Characterization, 2019, 151, 6-14.	4.4	32
49	Tensile property enhancement by oxygen solutes in selectively laser melted titanium materials fabricated from pre-mixed pure Ti and TiO2 powder. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 795, 139983.	5.6	31
50	Titanium Powders via Gas-Solid Direct Reaction Process and Mechanical Properties of Their Extruded Materials. Materials Transactions, 2015, 56, 1153-1158.	1.2	30
51	Quantitative evaluation of initial galvanic corrosion behavior of CNTs reinforced Mgâ€“Al alloy. Advanced Powder Technology, 2013, 24, 833-837.	4.1	29
52	Strength-ductility improvement of extruded Ti-(N) materials using pure Ti powder with high nitrogen solution. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 779, 139136.	5.6	29
53	Mechanical Properties of a Titanium Matrix Composite Reinforced with Low Cost Carbon Black via Powder Metallurgy Processing. Materials Transactions, 2009, 50, 2757-2762.	1.2	28
54	Titanium metal matrix composites by powder metallurgy (PM) routes. , 2015, , 277-297.		27

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55	Suppression of hydrogen-induced damage in friction stir welded low carbon steel joints. Corrosion Science, 2015, 94, 88-98.	6.6	27
56	Microstructures analysis and quantitative strengthening evaluation of powder metallurgy Tiâ€“Fe binary extruded alloys with (Î±+Î²)-dual-phase. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 803, 140708.	5.6	27
57	Environmentally Benign Fabricating Process of Magnesium Alloy by Cyclical Plastic Working in Solid-State. Materials Transactions, 2003, 44, 1276-1283.	1.2	26
58	Thermo-dynamic analysis on solid-state reduction of CaO particles dispersed in Mgâ€“Al alloy. Materials Chemistry and Physics, 2011, 129, 631-640.	4.0	26
59	Inter-wall bridging induced peeling of multi-walled carbon nanotubes during tensile failure in aluminum matrix composites. Micron, 2015, 69, 1-5.	2.2	26
60	Tailoring Microstructure and Properties of a Superelastic Tiâ€“Ta Alloy by Incorporating Spark Plasma Sintering with Thermomechanical Processing. Journal of Materials Engineering and Performance, 2019, 28, 3012-3020.	2.5	26
61	Effects of media parameters on enhance ability of hardness and residual stress of Ti6Al4V by fine shot peening. Surfaces and Interfaces, 2020, 18, 100424.	3.0	25
62	Powder metallurgy magnesium composite with magnesium silicide in using rice husk silica particles. Powder Technology, 2009, 189, 399-403.	4.2	24
63	Sintering Behaviors of Carbon Nanotubesâ€”Aluminum Composite Powders. Metals, 2016, 6, 213.	2.3	24
64	Selective laser-melted titanium materials with nitrogen solid solutions for balanced strength and ductility. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 790, 139641.	5.6	24
65	Quantitative strengthening evaluation of powder metallurgy Tiâ€“Zr binary alloys with high strength and ductility. Journal of Alloys and Compounds, 2021, 852, 156954.	5.5	23
66	Solid-state recycling of AZ91D magnesium alloy chips.. Keikinzoku/Journal of Japan Institute of Light Metals, 2001, 51, 516-520.	0.4	22
67	Tensile properties improvement by homogenized nitrogen solid solution strengthening of commercially pure titanium through powder metallurgy process. Materials Characterization, 2020, 170, 110700.	4.4	22
68	An in-situ study on deformation and cracking initiation in oxygen-doped commercial purity titanium. Mechanics of Materials, 2020, 148, 103519.	3.2	22
69	Aluminum-4 mass%Copper/Alumina Composites Produced from Aluminum Copper and Rice Husk Ash Silica Powders by Powder Forging. Materials Transactions, 2010, 51, 756-761.	1.2	21
70	Designable interfacial structure and its influence on interface reaction and performance of MWCNTs reinforced aluminum matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 793, 139783.	5.6	21
71	Effect of graphite content on properties of B₄Câ€“W₂B₅ ceramic composites by in situ reaction of Bâ€“Grâ€“<scp>WC</scp>. Journal of the American Ceramic Society, 2018, 101, 3617-3626.	3.8	20
72	Nanocarbon-reinforced metal-matrix composites for structural applications. MRS Bulletin, 2019, 44, 40-45.	3.5	20

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73	ASB induced phase transformation in high oxygen doped commercial purity Ti. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 830, 142321.	5.6	20
74	Tribological Properties of Magnesium Composite Alloy with <I>In-situ</I> Synthesized Mg₂Si Dispersoids. Materials Transactions, 2003, 44, 524-530.	1.2	19
75	Cavitation resistance of powder metallurgy aluminum matrix composite with AlN dispersoids. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 499, 440-444.	5.6	19
76	Strengthâ€“ductility balance of powder metallurgy Tiâ€“2Feâ€“2W alloy extruded at high-temperature. Journal of Materials Research and Technology, 2021, 14, 677-691.	5.8	19
77	Improved ductility of spark plasma sintered aluminium-carbon nanotube composite through the addition of titanium carbide microparticles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 795, 139959.	5.6	18
78	Mechanical properties and biocompatibility of titanium with a high oxygen concentration for dental implants. Materials Science and Engineering C, 2020, 117, 111306.	7.3	18
79	Syntheses, microstructure evolution and performance of strength-ductility matched aluminum matrix composites reinforced by nano SiC-cladded CNTs. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 824, 141784.	5.6	18
80	Microstructural and Electrical Properties of Copper–Titanium Alloy Dispersed with Carbon Nanotubes via Powder Metallurgy Process. Materials Transactions, 2014, 55, 522-527.	1.2	17
81	Refined grain formation behavior and strengthening mechanism of Î±-titanium with nitrogen fabricated by selective laser melting. Additive Manufacturing, 2020, 36, 101537.	3.0	17
82	Role B4C Addition on Microstructure, Mechanical, and Wear Characteristics of Al-20%Mg2Si Hybrid Metal Matrix Composite. Applied Sciences (Switzerland), 2021, 11, 3047.	2.5	17
83	Ultrafine-grain formation and improved mechanical properties of novel extruded Ti-Fe-W alloys with complete solid solution of tungsten. Journal of Alloys and Compounds, 2021, 875, 160031.	5.5	17
84	Tribological Property of Î±- Pure Titanium Strengthened by Nitrogen Solid-Solution. Materials Transactions, 2018, 59, 61-65.	1.2	16
85	Mechanisms of tensile strengthening and oxygen solid solution in single Î²-phase Ti-35 at.%Ta+O alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140677.	5.6	16
86	Surface potential analysis on initial galvanic corrosion of Ti/Mg-Al dissimilar material. Materials Chemistry and Physics, 2016, 179, 5-9.	4.0	15
87	Microstructure globularization of high oxygen concentration dual-phase extruded Ti alloys via powder metallurgy route. Materials Characterization, 2021, 172, 110855.	4.4	15
88	Effects of the secondary shot in the double shot peening process on the residual compressive stress distribution of Tiâ€“6Alâ€“4V. Heliyon, 2022, 8, e08758.	3.2	15
89	Cost Effective Pure Titanium with High Mechanical Response by Oxide Dispersion Strengthening. Materials Transactions, 2009, 50, 2751-2756.	1.2	13
90	Comparison study on mechanical properties of powder metallurgy titanium materials with nitrogen solutes and TiN dispersoids. Journal of Alloys and Compounds, 2020, 846, 156455.	5.5	13

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91	Ductility Improvement Mechanism of Tiâ€“6Alâ€“4V+O Sintered Material. Materials Transactions, 2020, 61, 430-437.	1.2	13
92	Strengthening evaluation and high-temperature behavior of Tiâ€“Feâ€“Oâ€“Cuâ€“Si alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 800, 140324.	5.6	13
93	Substantial role of charge transfer on the diffusion mechanism of interstitial elements in Î±-titanium: A First-principles study. Scripta Materialia, 2021, 203, 114065.	5.2	12
94	Innovative Reuse of Agricultural Wastes as Industrial Raw Materials to Form Magnesium Composites. Materials Transactions, 2005, 46, 2586-2591.	1.2	11
95	Rate sensitivity and work-hardening behavior of an advanced Ti-Al-N alloy under uniaxial tensile loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 744, 630-637.	5.6	11
96	Compressive behavior of CNT-reinforced aluminum matrix composites under various strain rates and temperatures. Ceramics International, 2022, 48, 10299-10310.	4.8	11
97	Powder Forming Process from Machined Titanium Chips via Heat Treatment in Hydrogen Atmosphere. Materials Transactions, 2017, 58, 1702-1707.	1.2	10
98	Quantitative Analysis on Light Elements Solution Strengthening in Pure Titanium Sintered Materials by Labusch Model Using Experimental Data. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 407-413.	0.2	10
99	Interfacial microstructure and mechanical property in friction stir welded Mg/Al joints under low rotation speed. Science and Technology of Welding and Joining, 2021, 26, 470-477.	3.1	10
100	Development of Lead-Free Machinable Brass with Bismuth and Graphite Particles by Powder Metallurgy Process. Materials Transactions, 2010, 51, 855-859.	1.2	9
101	Corrosion Behavior and Strength of Dissimilar Bonding Material between Ti and Mg Alloys Fabricated by Spark Plasma Sintering. Materials, 2016, 9, 665.	2.9	9
102	Ductility Improvement Mechanism of Pure Titanium with Excessive Oxygen Solid Solution via Rapid Cooling Process. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2018, 82, 390-395.	0.4	9
103	Ductility improvement of high-strength Tiâ€“O material upon heteromicrostructure formation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 842, 143041.	5.6	9
104	First-principles design and experimental validation of Î²-Ti alloys with high solid-solution strengthening and low elasticities. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 843, 143053.	5.6	9
105	Fabrication of Powder Metallurgy Pure Ti Material by Using Thermal Decomposition of TiH2. Journal of High Temperature Society, 2011, 37, 326-331.	0.1	8
106	Crack Formation in Powder Metallurgy Carbon Nanotube (CNT)/Al Composites During Post Heat-Treatment. Jom, 2015, 67, 2887-2891.	1.9	8
107	Acicular microstructure formation and strengthening behavior of Ti-4%Fe alloys by Zr addition. Journal of Alloys and Compounds, 2021, 858, 158292.	5.5	8
108	Advanced tensile properties and strain rate sensitivity of titanium matrix composites reinforced with CaTiO3 particles. Journal of Alloys and Compounds, 2022, 897, 163229.	5.5	8

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109	Room temperature and high-temperature properties of extruded Ti-4Fe-3W/2TiC composites in Î±+Î² and Î² phases. Materials and Design, 2022, 220, 110901.	7.0	8
110	Evaluation of the Wear Energy Consumption of Nitrogenated Diamond-Like Carbon Against Alumina. Tribology Letters, 2014, 55, 279-288.	2.6	7
111	Local galvanic corrosion analysis on cast Mg-Ca binary alloy using scanning Kelvin probe force microscopy. Materials Letters, 2022, 319, 132266.	2.6	7
112	Development of Magnesium Alloy Composites by Bulk Mechanical Alloying Process. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2008, 55, 244-249.	0.2	6
113	Strengthening Mechanisms of Powder Metallurgy Extruded CP Titanium Materials with Zirconium and Oxygen Solid Solution via Decomposition of ZrO₂ Additives in Sintering. Materials Transactions, 2019, 60, 1881-1889.	1.2	6
114	Strengthening and deformation mechanism of selective laser-melted high-concentration nitrogen solute Î±-Ti materials with heterogeneous microstructures via heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 826, 141935.	5.6	6
115	Effect of Nb Content and water quenching on microstructure and mechanical properties of Ti-Nb alloys fabricated by spark plasma sintering. Powder Metallurgy, 2022, 65, 426-438.	1.7	6
116	Microstructure and mechanical characterizations of additively manufactured high oxygen-doped titanium. Materials Characterization, 2022, 189, 112008.	4.4	6
117	An Investigation of Microstructure and Phase Transformation Behavior of Cu40Zn-1.0Âwt.% Ti Brass Via Powder Metallurgy. Journal of Materials Engineering and Performance, 2013, 22, 3168-3174.	2.5	5
118	Pinning Effect of In-Situ TiC_p and TiB_w on the Grain Size and Room Temperature Strength of (TiC + TiB)/Ti Composites. KONA Powder and Particle Journal, 2015, 32, 264-269.	1.7	5
119	Effect of vapor grown carbon fiber content on microstructure and tensile properties of Ti64/TiC composite fabricated by powder metallurgy method. Journal of Composite Materials, 2016, 50, 3405-3414.	2.4	5
120	Tribological Property of Î±-Pure Titanium Strengthened by Nitrogen Solid-Solution. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2017, 64, 275-280.	0.2	5
121	In-Situ Formed Al3Zr Compounds Reinforced Al Composites and Tribological Application. Crystals, 2021, 11, 227.	2.2	5
122	Solute-induced near-isotropic performance of laser powder bed fusion manufactured pure titanium. Additive Manufacturing, 2022, 56, 102907.	3.0	5
123	Phase transformation and precipitation hardening behavior of Cr and Fe in BS40CrFeSn alloy. Journal of Materials Science, 2010, 45, 5669-5675.	3.7	4
124	Microstructures and Mechanical Properties of Shape Memory Alloy Using Pre-mixed TiNi Powders with TiO₂ Particles. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2017, 64, 589-594.	0.2	4
125	Microstructures and Mechanical Properties of Shape Memory Alloy Using Pre-Mixed TiNi Powders with TiO₂ Particles. Materials Transactions, 2018, 59, 117-122.	1.2	4
126	Reaction kinetics of Cuâ€“Ni and B₄C in Cuâ€“Ni alloy under solid-state sintering. Materials Science and Technology, 2020, 36, 759-764.	1.6	4

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127	High-Brightness and High-Power Laser Welding of Powder Metallurgy Shape Memory Alloy: Welding-Parameter-Dependent Microstructure. Journal of Materials Engineering and Performance, 2020, 29, 987-996.	2.5	4
128	Precipitation and Distribution Behavior of In Situ-Formed TiB Whiskers in Ti64 Composites Fabricated by Selective Laser Melting. Crystals, 2021, 11, 374.	2.2	4
129	Development of coreâ€“shell-structured Ti-(N) powders for additive manufacturing and comparison of tensile properties of the additively manufactured and spark-plasma-sintered Ti-N alloys. Advanced Powder Technology, 2021, 32, 2379-2389.	4.1	4
130	Micro-compression of high oxygen doped single-crystal titanium along different orientations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 832, 142449.	5.6	4
131	Refining Process of Amorphous Silica Particle Originated from Rice Husks Via Brittle Carbides Formation in Combustion. Journal of Smart Processing, 2016, 5, 365-372.	0.1	3
132	Ductility Improvement Mechanism of Ti-6Al-4V + O Sintered Material. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 699-706.	0.2	3
133	Preparation of Si and O co-solution strengthened Ti alloys by using rice husks as SiO2resource and quantitative descriptions on their strengthening effects. Materials Research Express, 2018, 5, 046524.	1.6	3
134	Study on Aluminum Matrix Composites Reinforced with Singly Dispersed Carbon Nanotubes. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 139-144.	0.2	3
135	Microstructures and Strengthening Mechanism of Oxygen Soluted Titanium by Selective Laser Melting. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2021, 68, 67-75.	0.2	3
136	Quantitative Strengthening Evaluation of Powder Metallurgy Titanium Alloys with Substitutional Zr and Interstitial O Solutes via Homogenization Heat Treatment. Materials, 2021, 14, 6561.	2.9	3
137	Enhanced strength and ductility of nano-TiBw-reinforced titanium matrix composites fabricated by electron beam powder bed fusion using Ti6Al4Vâ€“TiBw composite powder. Additive Manufacturing, 2022, 50, 102519.	3.0	3
138	Quantitative analysis on surface potentials of impurities and intermetallic compounds dispersed in Mg alloys using scanning Kelvin probe force microscopy and ultraviolet photoelectron spectroscopy. Materials Chemistry and Physics, 2022, 279, 125760.	4.0	3
139	Investigation into the Intermetallic Layers in Ti/Al Multi-Layer Composites Produced via Accumulative Rolling and Sintering. Science of Advanced Materials, 2022, 14, 581-586.	0.7	3
140	Development of Heat-Resistant Magnesium Composites by Bulk Mechanical Alloying Method. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2009, 56, 717-721.	0.2	2
141	Strengthening Mechanisms of Powder Metallurgy Extruded CP Titanium Materials with Zirconium and Oxygen Solid Solution via Decomposition of ZrO₂ Additives in Sintering. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 746-755.	0.2	2
142	Effect of Shape Memory Heat Treatment on Microstructures and Mechanical Properties of Powder Metallurgy TiNi Shape Memory Alloy. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 85-90.	0.2	2
143	Effect of Shape Memory Heat Treatment on Microstructures and Mechanical Properties of Powder Metallurgy TiNi Shape Memory Alloy. Materials Transactions, 2018, 59, 805-810.	1.2	2
144	Dissolution Kinetics of Iron-Based Intermetallic Compounds (Ï„5c IMCs) in a Commercial Steel Strip Metallic Alloy Coating Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 41-50.	2.1	2

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145	Effect of Metal Powder Characteristics on Structural Defects of Graphene Nanosheets in Metal Composite Powders Dispersed by Ball Milling. Crystals, 2021, 11, 260.	2.2	2
146	Additive Manufacturing and Characterization of High Strength Ti-Zr Gyroid Scaffolds Using Pre-Mixed Ti-ZrH2 Powders. Jom, 2021, 73, 4166-4176.	1.9	2
147	High-Purity Amorphous Silica Originated in Rice Husks of Agricultural Waste and Utilization of Concrete Admixture. Journal of Smart Processing, 2014, 3, 323-327.	0.1	2
148	Effect of Reaction between Alloying Element and VGCFs on Mechanical and Electrical Properties of PM Copper Alloy Composites Dispersed with VGCFs. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 150-156.	0.2	1
149	Phase Transformation Control of Powder Metallurgy Super-Elastic Tiâ€“Ni Alloy by Adding Co Element. Materials Transactions, 2019, 60, 1583-1590.	1.2	1
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