

# Yongchang Liu

## List of Publications by Citations

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151  
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2,028  
ext. citations

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#	Paper	IF	Citations
149	Deformation behavior and processing maps of Ni <sub>3</sub> Al-based superalloy during isothermal hot compression. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 712, 687-695	5.7	71
148	Coarsening behavior of $\gamma$ precipitates in the $\beta$ area of a Ni <sub>3</sub> Al-based alloy. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 771, 526-533	5.7	69
147	Effect of annealing treatment on microstructure evolution and creep behavior of a multiphase Ni <sub>3</sub> Al-based superalloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 743, 623-635	5.3	58
146	Synthesis of nanosized composite powders via a wet chemical process for sintering high performance W-Y <sub>2</sub> O <sub>3</sub> alloy. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2017</b> , 69, 266-272	4.1	43
145	Micro-organic single crystalline phototransistors of 7,7,8,8-tetracyanoquinodimethane and tetrathiafulvalene. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 123308	3.4	42
144	High-Valent Nickel Promoted by Atomically Embedded Copper for Efficient Water Oxidation. <i>ACS Catalysis</i> , <b>2020</b> , 10, 9725-9734	13.1	42
143	Metal-organic framework derived copper catalysts for CO <sub>2</sub> to ethylene conversion. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11117-11123	13	35
142	Precipitate coarsening and its effects on the hot deformation behavior of the recently developed $\alpha$ -strengthened superalloys. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 67, 95-104	9.1	33
141	Improved analytical model for isochronal transformation kinetics. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 4876-4885	4.3	28
140	Effects of Zr Addition on Strengthening Mechanisms of Al-Alloyed High-Cr ODS Steels. <i>Materials</i> , <b>2018</b> , 11,	3.5	27
139	Adjusting tetrathiafulvalene (TTF) functionality through molecular design for organic field-effect transistors. <i>CrystEngComm</i> , <b>2014</b> , 16, 5968	3.3	27
138	Multifunctional Naphthol Sulfonic Salt Incorporated in Lead-Free 2D Tin Halide Perovskite for Red Light-Emitting Diodes. <i>ACS Photonics</i> , <b>2020</b> , 7, 1915-1922	6.3	27
137	Microstructure Refinement in W-YO Alloy Fabricated by Wet Chemical Method with Surfactant Addition and Subsequent Spark Plasma Sintering. <i>Scientific Reports</i> , <b>2017</b> , 7, 6051	4.9	26
136	The synthesis of composite powder precursors via chemical processes for the sintering of oxide dispersion-strengthened alloys. <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 1952-1972	7.8	25
135	Eliminating bimodal structures of W-Y <sub>2</sub> O <sub>3</sub> composite nanopowders synthesized by wet chemical method via controlling reaction conditions. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 774, 122-128	5.7	23
134	Influences of solution cooling rate on microstructural evolution of a multiphase Ni <sub>3</sub> Al-based intermetallic alloy. <i>Intermetallics</i> , <b>2019</b> , 109, 48-59	3.5	20
133	Microstructure evolution behavior of Ni <sub>3</sub> Al ( $\beta$ ) phase in eutectic $\beta$ of Ni <sub>3</sub> Al-based alloy. <i>Intermetallics</i> , <b>2018</b> , 98, 28-33	3.5	20

132	Development of ferrite/bainite bands and study of bainite transformation retardation in HSLA steel during continuous cooling. <i>Metals and Materials International</i> , <b>2014</b> , 20, 19-25	2.4	20
131	Hot compression deformation behavior and processing maps of ATI 718Plus superalloy. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 835, 155195	5.7	19
130	Fabrication of multi-element alloys by twin wire arc additive manufacturing combined with in-situ alloying. <i>Materials Research Letters</i> , <b>2020</b> , 8, 477-482	7.4	19
129	Self-Constructed Multiple Plasmonic Hotspots on an Individual Fractal to Amplify Broadband Hot Electron Generation. <i>ACS Nano</i> , <b>2021</b> , 15, 10553-10564	16.7	19
128	Improvement of High-Temperature Mechanical Properties of Low-Carbon RAFM Steel by MX Precipitates. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2018</b> , 31, 706-712	2.5	18
127	Precipitation and growth behavior of mushroom-like Ni <sub>3</sub> Al. <i>Materials Letters</i> , <b>2018</b> , 211, 5-8	3.3	17
126	Acicular ferrite formation during isothermal holding in HSLA steel. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 3555-3563	4.3	17
125	Processing maps and microstructural evolution of the type 347H austenitic heat-resistant stainless steel. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 2090-2100	2.5	17
124	Phase formation sequence of high-temperature Zn <sub>4</sub> Al <sub>3</sub> Mg solder. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 336-344	2.1	17
123	Formation of Fine B <sub>2</sub> /B <sub>19'</sub> O Structure and Enhancement of Hardness in the Aged Ti <sub>2</sub> AlNb-Based Alloys Prepared by Spark Plasma Sintering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 4365-4371	2.3	17
122	Kinetics of isochronal austenization in modified high Cr ferritic heat-resistant steel. <i>Applied Physics A: Materials Science and Processing</i> , <b>2011</b> , 105, 949-957	2.6	17
121	Consideration of the growth mode in isochronal austenite-ferrite transformation of ultra-low-carbon Fe-C alloy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2010</b> , 98, 211-217	2.6	17
120	Formation of MgO whiskers on the surface of bulk MgB <sub>2</sub> superconductors during in situ sintering. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 1438-1443	4.3	17
119	High performance MgB <sub>2</sub> superconducting wires fabricated by improved internal Mg diffusion process at a low temperature. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 9469-9475	7.1	17
118	Precipitation behavior of type 347H heat-resistant austenitic steel during long-term high-temperature aging. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 3642-3652	2.5	16
117	The simultaneous improvements of strength and ductility in W <sub>18</sub> O <sub>3</sub> alloy obtained via an alkaline hydrothermal method and subsequent low temperature sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 784, 139329	5.3	15
116	Hot deformation behavior of Ti-22Al-25Nb alloy by processing maps and kinetic analysis. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 1764-1772	2.5	15
115	Microstructural evolution of oxide-dispersion-strengthened Fe-Cr model steels during mechanical milling and subsequent hot pressing. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 1826-1836	4.3	15

114	The Effect of Precipitate Evolution on Austenite Grain Growth in RAFM Steel. <i>Materials</i> , <b>2017</b> , 10,	3.5	15
113	Study on microstructural evolution and constitutive modeling for hot deformation behavior of a low-carbon RAFM steel. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 1376-1385	2.5	14
112	Ultra-fine W <sub>2</sub> O <sub>3</sub> composite powders prepared by an improved chemical co-precipitation method and its interface structure after spark plasma sintering. <i>Tungsten</i> , <b>2019</b> , 1, 220-228	4.6	14
111	Martensite transformation in the modified high Cr ferritic heat-resistant steel during continuous cooling. <i>Journal of Materials Research</i> , <b>2012</b> , 27, 2779-2789	2.5	14
110	Evaluation of cooling rate on electrochemical behavior of Sn <sub>0.3</sub> Ag <sub>0.9</sub> Zn solder alloy in 3.5 wt% NaCl solution. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 11-22	2.1	13
109	Abnormal growth of Ag <sub>3</sub> Sn intermetallic compounds in Sn-Ag lead-free solder. <i>Science Bulletin</i> , <b>2006</b> , 51, 1766-1770		13
108	Cyclic oxidation behavior of Ni <sub>3</sub> Al-based superalloy. <i>Vacuum</i> , <b>2019</b> , 169, 108938	3.7	12
107	Hot Deformation Behavior and Microstructure Evolution of 14Cr ODS Steel. <i>Materials</i> , <b>2018</b> , 11,	3.5	12
106	The isochronal B <sub>2</sub> transformation of high Cr ferritic heat-resistant steel during cooling. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 6910-6915	4.3	12
105	The effects of third alloying elements on the bulk Ag <sub>3</sub> Sn formation in slowly cooled Sn <sub>3.5</sub> Ag lead-free solder. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2008</b> , 19, 275-280	2.1	12
104	Tuning Superconductivity in FeSe Thin Films via Magnesium Doping. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 7891-6	9.5	12
103	Analysis of the Effect of Tungsten Inert Gas Welding Sequences on Residual Stress and Distortion of CFETR Vacuum Vessel Using Finite Element Simulations. <i>Metals</i> , <b>2018</b> , 8, 912	2.3	12
102	Precipitation and growth behavior of $\gamma$ phase in Ni <sub>3</sub> Al-based superalloy under thermal exposure. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 13368-13377	4.3	11
101	Effects of aging on shape memory and wear resistance of a FeMnBi-based alloy. <i>Journal of Materials Research</i> , <b>2014</b> , 29, 2809-2816	2.5	11
100	Observation of Flux Jump in (MgB <sub>2</sub> ) <sub>0.96</sub> Ni <sub>0.04</sub> Superconductor Doped with Milled Ni powders. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2011</b> , 24, 2013-2017	1.5	11
99	Boride-derived oxygen-evolution catalysts. <i>Nature Communications</i> , <b>2021</b> , 12, 6089	17.4	11
98	Influence of Yttrium Addition on the Reduction Property of Tungsten Oxide Prepared via Wet Chemical Method. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2020</b> , 33, 275-280	2.5	11
97	Achieving high strength and ductility in ODS-W alloy by employing oxide@W core-shell nanopowder as precursor. <i>Nature Communications</i> , <b>2021</b> , 12, 5052	17.4	11

96	Hot deformation behavior and microstructural evolution of Nb-V-Ti microalloyed ultra-high strength steel. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 3777-3787	2.5	10
95	Effects of Static Recrystallization and Precipitation on Mechanical Properties of 00Cr12 Ferritic Stainless Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2018</b> , 49, 1560-1567	2.5	10
94	Enhancement of superconductivity in FeNbxSe0.95 by hole carrier doping. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 10019-10027	7.1	10
93	The Sintering Process and Reaction Kinetics of FeBe System after Ball Milling Treatment. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2014</b> , 27, 775-780	1.5	10
92	Precipitation kinetics of M23C6 in T/P92 heat-resistant steel by applying soft-impingement correction. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 1529-1537	2.5	10
91	Approaches for isochronal transformation kinetics model and their application to the crystallization of amorphous alloys. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 96, 721-729	2.6	10
90	Enhanced superconductivity induced by several-unit-cells diffusion in an FeTe/FeSe bilayer heterostructure. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	9
89	Formation and widening mechanisms of envelope structure and its effect on creep behavior of a multiphase Ni3Al-based intermetallic alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 763, 138158	5.3	9
88	Isochronal Phase Transformations of Low-Carbon High Strength Low Alloy Steel upon Continuous Cooling. <i>Steel Research International</i> , <b>2013</b> , 84, 184-191	1.6	9
87	Microstructure evolution and martensitic transformation behaviors of 9Cr-1.8W-0.3Mo ferritic heat-resistant steel during quenching and partitioning treatment. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 2835-2843	2.5	9
86	Effect of M3C on the Precipitation Behavior of M23C6 Phase during Early Stage of Tempering in T91 Ferritic Steel. <i>Steel Research International</i> , <b>2011</b> , 82, 1362-1367	1.6	9
85	Microstructure refinement in W/2O3 alloys via an improved hydrothermal synthesis method and low temperature sintering. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 659-666	6.8	9
84	Enhanced mechanical properties in oxide-dispersion-strengthened alloys achieved via interface segregation of cation dopants. <i>Science China Materials</i> , <b>2021</b> , 64, 987-998	7.1	9
83	Formation mechanisms of YAlO complex oxides in 9Cr-ODS steels with Al addition. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 7893-7907	4.3	8
82	Flow Characteristics of a Medium-High Carbon Mn-Si-Cr Alloyed Steel at High Temperatures. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 5104-5115	1.6	8
81	Kinetics of Martensite Formation in Substitutional Fe-Al Alloys: Dilatometric Analysis. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 1430-1440	2.3	8
80	Superconducting properties of Y2O3/SiC Co-doped bulk MgB2. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2012</b> , 25, 357-361	1.5	8
79	Effects of Thermal Aging on Microstructure and Microhardness of Sn-3.7Ag-0.9Zn-1In Solder. <i>Journal of Electronic Materials</i> , <b>2009</b> , 38, 345-350	1.9	8

78	Kinetic consideration for the incubation of the phase transformation and its application to the crystallization of amorphous alloy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 92, 703-707	2.6	8
77	Microstructural evolution and phase transformation of Ni3Al-based superalloys after thermal exposure. <i>Vacuum</i> , <b>2020</b> , 171, 109038	3.7	8
76	Microstructure Evolution of Primary $\delta$ Phase in Ni3Al-Based Superalloy. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2020</b> , 33, 1709-1726	2.5	8
75	Formation of multiply twinned martensite plates in rapidly solidified Ni3Al-based superalloys. <i>Materials Letters</i> , <b>2019</b> , 250, 147-150	3.3	7
74	Characterization of 14Cr ODS Steel Fabricated by Spark Plasma Sintering. <i>Metals</i> , <b>2019</b> , 9, 200	2.3	7
73	Effect of high-temperature annealing on the microstructural formation of Sn <sub>8</sub> .7Ag <sub>0.9</sub> Zn <sub>8</sub> Al lead-free solder. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2009</b> , 20, 139-143	2.1	7
72	Research on splitting phenomenon of isochronal martensitic transformation in T91 ferritic steel. <i>Phase Transitions</i> , <b>2012</b> , 85, 461-470	1.3	7
71	Microstructure and mechanical properties of Lead-free Sn <sub>8</sub> Sn solder composites prepared by rapid directional solidification. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2007</b> , 18, 1235-1238	2.1	7
70	Characterization of $\delta$ precipitate and $\delta/\gamma$ interface in polycrystalline Ni3Al-based superalloys. <i>Vacuum</i> , <b>2020</b> , 176, 109310	3.7	7
69	Microstructure Evolution of HSLA Pipeline Steels after Hot Uniaxial Compression. <i>Materials</i> , <b>2016</b> , 9,	3.5	7
68	Effects of cold rolling on the precipitation and the morphology of $\delta$ phase in Inconel 718 alloy. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 443-454	2.5	7
67	The isotope effect of boron on the carbon doping and critical current density of Mg <sub>11</sub> B <sub>2</sub> superconductors. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 663-668	7.1	6
66	The formation of nano-layered grains and their enhanced superconducting transition temperature in Mg-doped FeSe <sub>0.9</sub> bulks. <i>Scientific Reports</i> , <b>2014</b> , 4, 6481	4.9	6
65	Influence of Al Addition Upon the Microstructure and Mechanical Property of Dual-Phase 9Cr-ODS Steels. <i>Metals and Materials International</i> , <b>2019</b> , 25, 168-178	2.4	6
64	Effects of thermal treatment on microstructure and microhardness of rapidly solidified Sn <sub>8</sub> Ag <sub>8</sub> Zn eutectic solder. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 95, 409-413	2.6	6
63	Critical temperature for massive transformation in ultra-low-carbon Fe <sub>0</sub> alloys. <i>International Journal of Materials Research</i> , <b>2008</b> , 99, 925-932	0.5	6
62	Improved Superconducting properties in the Mg(11)B <sub>2</sub> low activation superconductor prepared by low-temperature sintering. <i>Scientific Reports</i> , <b>2016</b> , 6, 25498	4.9	6
61	Austenitizing Temperature Effects on the Martensitic Transformation, Microstructural Characteristics, and Mechanical Performance of Modified Ferritic Heat-Resistant Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2018</b> , 49, 3525-3538	2.3	5

60	Precipitation of intersected plate-like $\delta$ phase in $\delta$ and its effect on creep behavior of multiphase Ni3Al-based intermetallic alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 767, 138439	5.3	5
59	Relationship between austenite stability and martensite formation in modified 9Cr-1Mo steel. <i>International Journal of Materials Research</i> , <b>2014</b> , 105, 232-239	0.5	5
58	Doping-Induced Isotopic Mg11B2 Bulk Superconductor for Fusion Application. <i>Energies</i> , <b>2017</b> , 10, 409	3.1	5
57	Comparison of carbon-doped MgB2 bulks fabricated from pre-synthesized Mg/CNT and Mg/amorphous carbon composites. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 114, 919-924 <sup>2,6</sup>	2.6	5
56	Microstructure and Mechanical Properties of Ti2AlNb-Based Alloys Synthesized by Spark Plasma Sintering from Pre-Alloyed and Ball-Milled Powder. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700659	3.5	5
55	Accelerated sintering of high-performance oxide dispersion strengthened alloy at low temperature. <i>Acta Materialia</i> , <b>2021</b> , 220, 117309	8.4	5
54	Herringbone Structure and Significantly Enhanced Hardness in W-Modified Ti2AlNb Alloys by Spark Plasma Sintering. <i>Metals and Materials International</i> , <b>2019</b> , 25, 1000-1007	2.4	4
53	Characterization of Microstructure and Stress Corrosion Cracking Susceptibility in a Multi-pass Austenitic Stainless Steel Weld Joint by Narrow-Gap TIG. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 4549-4562	2.3	4
52	Thermodynamic and kinetic evidence for MgO formation and pinning behavior in glycine-doped MgB2 bulks. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 2665-2676	4.3	4
51	Effects of morphology of Mg powder precursor on phase formation and superconducting properties of Mg11B2 low activation superconductor. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 8069-8075 <sup>7,1</sup>	7.1	4
50	Superconducting properties and growth mechanism of layered structure in MgB2 bulks with Cu/Y2O3 co-doping. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 1451-1457	2.1	4
49	Bainite Formation Kinetics During Isothermal Holding in Modified High Cr Ferritic Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 5447-5455 <sup>2,3</sup>	2.3	4
48	Microstructural evolution of MgAl2O4 oxide-dispersion-strengthened alloy by mechanical milling and hot isostatic pressing. <i>Journal of Materials Research</i> , <b>2014</b> , 29, 1440-1447	2.5	4
47	Martensite-austenite transformation kinetics of high Cr ferritic heat-resistant steel. <i>International Journal of Materials Research</i> , <b>2013</b> , 104, 935-940	0.5	4
46	Helium bubble evolution and deformation of single crystal Fe. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 1785-1796	4.3	4
45	Deformation Mechanism of L12- $\delta$ Phase in Bimodal $\delta$ - $\delta$ Precipitation Hardened Inconel 718 Superalloy. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1800652	3.5	4
44	Hot Deformation Behavior and Recrystallization Mechanism in an As-Cast CoNi-Based Superalloy. <i>Metals and Materials International</i> , <b>2019</b> , 25, 1000-1007	2.4	4
43	On the Process Variables and Weld Quality of a Linear Friction Welded Dissimilar Joint between S31042 and S34700 Austenitic Steels. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1801354	3.5	3

42	Influence of aging on shape memory effect and corrosion resistance of a new FeMnSi-based alloy. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 179-185	2.5	3
41	Mechanical Performances of Al-Si-Mg Alloy with Dilute Sc and Sr Elements. <i>Materials</i> , <b>2020</b> , 13,	3.5	3
40	The effect of ball-milling treatment of original powders on the sintering process and critical current density of graphite-doped MgB <sub>2</sub> bulks. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 2485-2489	4.3	3
39	Induction of diffusion and construction of metallurgical interfaces directly between immiscible Mo and Ag by irradiation-induced point defects. <i>RSC Advances</i> , <b>2017</b> , 7, 53763-53769	3.7	3
38	Scattering effect of the well-ordered MgB <sub>4</sub> impurity phase in two-step sintered polycrystalline MgB <sub>2</sub> with glycine addition. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	3
37	Bainitic transformation behavior of ultra-high strength 30CrNi3MoV steel after experiencing small deformation in the nonrecrystallization austenite region. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 2844-2851	2.5	3
36	A Novel Approach for Efficient Ni Nanoparticle Doping of MgB <sub>2</sub> by Liquid-Assisted Sintering. <i>IEEE Nanotechnology Magazine</i> , <b>2011</b> , 10, 331-337	2.6	3
35	Abnormal austenite-ferrite transformation behavior in pure iron. <i>Science Bulletin</i> , <b>2004</b> , 49, 972-975		3
34	Non-instantaneous growth characteristics of martensitic transformation in high Cr ferritic creep-resistant steel. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	3
33	Evaluation of quenching-induced lattice strain and superconducting properties in un-doped and glycine-doped MgB <sub>2</sub> bulks. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 9431-9436	2.1	3
32	Enhancement of critical current density by borohydride pinning in H-doped MgB <sub>2</sub> bulks. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 113901	2.5	2
31	Enhancement of critical current density in MgB <sub>2</sub> bulks sintered with commercial MgB <sub>2</sub> powder. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 10323-10328	2.1	2
30	Enhancement of Critical Current Density in MgB <sub>2</sub> Bulk with CNT-coated Al Addition. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2014</b> , 27, 1659-1664	1.5	2
29	Enhancement of synthesis efficiency and critical current density in glycine-doped MgB <sub>2</sub> bulks by two-step sintering. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 5645-5651	2.1	2
28	Removal of MgO and enhancement of critical current density in urea-doped MgB <sub>2</sub> bulks by melting impregnation method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 15625-15629	2.1	2
27	Influence of Premilling Time on the Sintering Process and Superconductive Properties of FeSe. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2012</b> , 22, 7300105-7300105	1.8	2
26	Effects of Ball Milling on the Sintering Process and Superconducting Properties of $(\text{MgB}_2)_{0.96}(\text{Ni})_{0.04}$ Bulks. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2012</b> , 22, 6800405-6800405	1.8	2
25	The effect of Cu addition on the sintering process and superconductive properties of SiC-doped MgB <sub>2</sub> bulks. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 96, 975-978	2.6	2



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21	Statistical Mechanics Treatment of the Broadened Snoek Relaxation Peak in Ternary Niobium/Vanadium/Oxygen Alloys. <i>Materials</i> , <b>2018</b> , 11,	3.5	2
20	Diffusion Bonding of 9Cr Martensitic/Ferritic Heat-Resistant Steels with an Electrodeposited Ni Interlayer. <i>Metals</i> , <b>2018</b> , 8, 1012	2.3	2
19	Lattice mismatch in Ni <sub>3</sub> Al-based alloy for efficient oxygen evolution. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 106, 19-19	9.1	2
18	Microstructure and interface evolution of Sn-2.5Bi-1.4In-1Zn-0.3Ag/Cu joint during isothermal aging. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 4122-4128	2.1	1
17	Austenite to polygonal-ferrite transformation and carbide precipitation in high strength low alloy steel. <i>International Journal of Materials Research</i> , <b>2017</b> , 108, 12-19	0.5	1
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15	The Effect of Cu Addition on the Phase Formation and Critical Current Density in the Sugar Doped MgB <sub>2</sub> Superconductor. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2012</b> , 25, 1683-1688	1.5	1
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13	Modification Mechanism and Uniaxial Fatigue Performances of A356.2 Alloy Treated by Al-Sr-La Composite Refinement-Modification Agent. <i>Acta Metallurgica Sinica (English Letters)</i> ,1	2.5	1
12	Hot Deformation Behavior of ATI 718Plus Alloy with Different Microstructures. <i>Acta Metallurgica Sinica (English Letters)</i> ,1	2.5	1
11	Short-term corrosion behavior of polycrystalline Ni <sub>3</sub> Al-based superalloy in sulfur-containing atmosphere. <i>Intermetallics</i> , <b>2022</b> , 142, 107446	3.5	1
10	Effect of interlayer on microstructure and mechanical properties of diffusional-bonded Ni <sub>3</sub> Al-based superalloy/S31042 steel joint. <i>Journal of Manufacturing Processes</i> , <b>2021</b> , 72, 252-261	5	1
9	Creep behaviors of multiphase Ni <sub>3</sub> Al-based intermetallic alloy after 1000°C-1000h long-term aging at intermediate temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 790, 139701	5.3	1
8	Microstructure and Tensile Strength of the Bonded Interfaces and Parent Materials in W/ODS Steel Joints Fabricated by Direct SSDB. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 3647	2.3	1
7	Correlation between Zn-Rich Phase and Corrosion/Oxidation Behavior of Sn <sub>3</sub> Zn <sub>3</sub> Bi Alloy. <i>Metals</i> , <b>2016</b> , 6, 175	2.3	1

6	Multi-phase transformation kinetics of HSLA steels during continuous cooling: experiments and cellular automaton (CA) simulation. <i>Philosophical Magazine</i> , <b>2020</b> , 100, 2001-2017	1.6	1
5	Precipitation of Carbides and Dissolution of Widmanstätten Structure for Enhanced Hardness in Ti2AlNb-Based Alloys. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 1892-1901	1.6	0
4	Effect of microstructure on temperature dependence of deformation behavior in polycrystalline CoNi-based superalloy. <i>Journal of Materials Science</i> , <b>2022</b> , 57, 687-699	4.3	0
3	Influence of cooling rates on microstructure and tensile properties of a heat treated Ti2AlNb-based alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 817, 141345	5.3	0
2	Residual Ferrite Control of 9Cr ODS Steels by Tailoring Reverse Austenite Transformation. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2021</b> , 34, 187-195	2.5	0
1	Microscopic Investigation of High-Temperature Oxidation of hcp-ZrAl2. <i>Oxidation of Metals</i> , <b>2020</b> , 94, 431-445	1.6	