

Xi-Tao Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2939998/publications.pdf>

Version: 2024-02-01

158
papers

4,112
citations

109311

35
h-index

155644

55
g-index

159
all docs

159
docs citations

159
times ranked

2312
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced thermal conductivity in copper matrix composites reinforced with titanium-coated diamond particles. <i>Scripta Materialia</i> , 2011, 65, 1097-1100.	5.2	212
2	A comparative study on Johnson-Cook, modified Johnson-Cook and Arrhenius-type constitutive models to predict the high temperature flow stress in 20CrMo alloy steel. <i>Materials & Design</i> , 2013, 52, 677-685.	5.1	199
3	High thermal conductivity through interfacial layer optimization in diamond particles dispersed Zr-alloyed Cu matrix composites. <i>Scripta Materialia</i> , 2015, 109, 72-75.	5.2	136
4	Effect of Ti interlayer on interfacial thermal conductance between Cu and diamond. <i>Acta Materialia</i> , 2018, 160, 235-246.	7.9	111
5	Microstructure and thermal conductivity of Cu/diamond composites with Ti-coated diamond particles produced by gas pressure infiltration. <i>Journal of Alloys and Compounds</i> , 2015, 647, 941-946.	5.5	95
6	Mechanical and thermal properties of carbon nanotube/aluminum composites consolidated by spark plasma sintering. <i>Materials & Design</i> , 2012, 41, 344-348.	5.1	91
7	Microstructure evolution and impact fracture behaviors of Z3CN20-09M stainless steels after long-term thermal aging. <i>Journal of Nuclear Materials</i> , 2013, 433, 41-49.	2.7	86
8	Effects of ion irradiation on microstructure and properties of zirconium alloys-A review. <i>Nuclear Engineering and Technology</i> , 2015, 47, 323-331.	2.3	81
9	Optimized thermal properties in diamond particles reinforced copper-titanium matrix composites produced by gas pressure infiltration. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 91, 189-194.	7.6	80
10	Enhanced thermal conductivity in Cu/diamond composites by tailoring the thickness of interfacial TiC layer. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 113, 76-82.	7.6	80
11	Combining Cr pre-coating and Cr alloying to improve the thermal conductivity of diamond particles reinforced Cu matrix composites. <i>Journal of Alloys and Compounds</i> , 2018, 749, 1098-1105.	5.5	78
12	High thermal conductivity of Cu-B/diamond composites prepared by gas pressure infiltration. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1648-1653.	5.5	75
13	G-phase precipitation in duplex stainless steels after long-term thermal aging: A high-resolution transmission electron microscopy study. <i>Journal of Nuclear Materials</i> , 2014, 452, 382-388.	2.7	73
14	Annealing induced recovery of long-term thermal aging embrittlement in a duplex stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 564, 85-91.	5.6	68
15	Thermal conductivity of Cu-Zr/diamond composites produced by high temperature-high pressure method. <i>Composites Part B: Engineering</i> , 2015, 68, 22-26.	12.0	67
16	Microstructures and mechanical properties of cast austenite stainless steels after long-term thermal aging at low temperature. <i>Materials & Design</i> , 2013, 50, 886-892.	5.1	66
17	Tailoring interface structure and enhancing thermal conductivity of Cu/diamond composites by alloying boron to the Cu matrix. <i>Materials Characterization</i> , 2019, 152, 265-275.	4.4	66
18	Effect of copper content on the thermal conductivity and thermal expansion of Al-Cu/diamond composites. <i>Materials & Design</i> , 2012, 39, 87-92.	5.1	65

#	ARTICLE	IF	CITATIONS
19	Investigation on the 1000, 1150 and 1400 Å°C isothermal section of the Ti–Al–Nb system. <i>Intermetallics</i> , 1996, 4, 13-22.	3.9	63
20	A modified Zerilli–Armstrong constitutive model to predict hot deformation behavior of 20CrMo alloy steel. <i>Materials & Design</i> , 2014, 56, 122-127.	5.1	57
21	A physically-based constitutive model for a nitrogen alloyed ultralow carbon stainless steel. <i>Computational Materials Science</i> , 2015, 98, 64-69.	3.0	56
22	Interfacial structure evolution of Ti-coated diamond particle reinforced Al matrix composite produced by gas pressure infiltration. <i>Composites Part B: Engineering</i> , 2017, 113, 285-290.	12.0	56
23	Effect of sigma phase precipitation on the mechanical and wear properties of Z3CN20.09M cast duplex stainless steel. <i>Nuclear Engineering and Design</i> , 2013, 259, 1-7.	1.7	50
24	Interfacial structure evolution and thermal conductivity of Cu-Zr/diamond composites prepared by gas pressure infiltration. <i>Journal of Alloys and Compounds</i> , 2019, 781, 800-809.	5.5	50
25	Non-uniform phase separation in ferrite of a duplex stainless steel. <i>Acta Materialia</i> , 2017, 140, 388-397.	7.9	49
26	Nucleation and growth mechanisms of interfacial Al ₄ C ₃ in Al/diamond composites. <i>Journal of Alloys and Compounds</i> , 2016, 657, 81-89.	5.5	46
27	Effects of Co additions on electromigration behaviors in Sn–3.0Ag–0.5Cu-based solder joint. <i>Journal of Materials Science</i> , 2011, 46, 4896-4905.	3.7	44
28	Grain morphology and crystal structure of pre-transition oxides formed on Zircaloy-4. <i>Corrosion Science</i> , 2013, 74, 323-331.	6.6	44
29	The role of alloying elements in the initiation of nanoscale porosity in oxide films formed on zirconium alloys. <i>Corrosion Science</i> , 2013, 77, 391-396.	6.6	43
30	Regulated Interfacial Thermal Conductance between Cu and Diamond by a TiC Interlayer for Thermal Management Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26507-26517.	8.0	41
31	Optimisation of high thermal conductivity Al/diamond composites produced by gas pressure infiltration by controlling infiltration temperature and pressure. <i>Journal of Materials Science</i> , 2015, 50, 688-696.	3.7	40
32	Microstructure, Mechanical Properties and In Vitro Degradation Behavior of a Novel Biodegradable Mg–1.5Zn–0.6Zr–0.2Sc Alloy. <i>Journal of Materials Science and Technology</i> , 2015, 31, 744-750.	10.7	38
33	Effect of metalloid silicon addition on densification, microstructure and thermal–physical properties of Al/diamond composites consolidated by spark plasma sintering. <i>Materials & Design</i> , 2014, 63, 838-847.	5.1	37
34	Effects of ferrite content on the mechanical properties of thermal aged duplex stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 625, 186-193.	5.6	37
35	Mechanical properties of diamond/Al composites with Ti-coated diamond particles produced by gas-assisted pressure infiltration. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 626, 362-368.	5.6	36
36	Interfacial characteristic and thermal conductivity of Al/diamond composites produced by gas pressure infiltration in a nitrogen atmosphere. <i>Materials and Design</i> , 2016, 92, 643-648.	7.0	36

#	ARTICLE	IF	CITATIONS
37	Microstructural evolution in 316LN austenitic stainless steel during solidification process under different cooling rates. <i>Journal of Materials Science</i> , 2016, 51, 2529-2539.	3.7	36
38	Evolution of the microstructure in aged G115 steels with the different concentration of tungsten. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 729, 161-169.	5.6	36
39	Electromigration in Sn-Bi Modified with Polyhedral Oligomeric Silsesquioxane. <i>Journal of Electronic Materials</i> , 2010, 39, 2513-2521.	2.2	35
40	Retarding the electromigration effects to the eutectic SnBi solder joints by micro-sized Ni-particles reinforcement approach. <i>Journal of Alloys and Compounds</i> , 2011, 509, 878-884.	5.5	34
41	Modified arrhenius-type constitutive model and artificial neural network-based model for constitutive relationship of 316LN stainless steel during hot deformation. <i>Journal of Iron and Steel Research International</i> , 2015, 22, 721-729.	2.8	34
42	Evaluation of hardening behaviors in ion-irradiated Fe-9Cr and Fe-20Cr alloys by nanoindentation technique. <i>Journal of Nuclear Materials</i> , 2016, 478, 50-55.	2.7	34
43	Experimental and theoretical characterization of electrical contact in anisotropically conductive adhesive. <i>IEEE Transactions on Advanced Packaging</i> , 2000, 23, 15-21.	1.6	33
44	The coupling effects of thermal cycling and high current density on Sn58Bi solder joints. <i>Journal of Materials Science</i> , 2013, 48, 2318-2325.	3.7	33
45	Effect of boron addition on interface microstructure and thermal conductivity of Cu/diamond composites produced by high temperature-high pressure method. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 587-594.	1.8	33
46	The role of Ti coating in enhancing tensile strength of Al/diamond composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 565, 33-37.	5.6	32
47	The role of Cr interlayer in determining interfacial thermal conductance between Cu and diamond. <i>Applied Surface Science</i> , 2020, 515, 146046.	6.1	32
48	The formation of atomic-level interfacial layer and its effect on thermal conductivity of W-coated diamond particles reinforced Al matrix composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 107, 164-170.	7.6	29
49	Positron annihilation study of proton-irradiated reactor pressure vessel steels. <i>Radiation Physics and Chemistry</i> , 2012, 81, 1586-1592.	2.8	28
50	Interfacial products and thermal conductivity of diamond/Al composites reinforced with ZrC-coated diamond particles. <i>Diamond and Related Materials</i> , 2019, 100, 107565.	3.9	28
51	Effects of electromigration on resistance changes in eutectic SnBi solder joints. <i>Journal of Materials Science</i> , 2011, 46, 3544-3549.	3.7	27
52	Effects of scandium addition on biocompatibility of biodegradable Mg-1.5Zn-0.6Zr alloy. <i>Materials Letters</i> , 2018, 215, 200-202.	2.6	27
53	Investigation of the microstructure and strength in G115 steel with the different concentration of tungsten during creep test. <i>Materials Characterization</i> , 2019, 149, 95-104.	4.4	27
54	Effect of Metal Matrix Alloying on Mechanical Strength of Diamond Particle-Reinforced Aluminum Composites. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2556-2562.	2.5	26

#	ARTICLE	IF	CITATIONS
55	The failure models of Sn-based solder joints under coupling effects of electromigration and thermal cycling. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	25
56	Microstructure, mechanical property and in vitro biocorrosion behavior of single-phase biodegradable Mg-1.5Zn-0.6Zr alloy. <i>Journal of Magnesium and Alloys</i> , 2014, 2, 181-189.	11.9	25
57	Influence of albumin on in vitro degradation behavior of biodegradable Mg-1.5Zn-0.6Zr-0.2Sc alloy. <i>Materials Letters</i> , 2018, 217, 227-230.	2.6	25
58	Effect of boron on G115 martensitic heat resistant steel during aging at 650°C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 787, 139529.	5.6	25
59	Reinforcement size effect on thermal conductivity in Cu-B/diamond composite. <i>Journal of Materials Science and Technology</i> , 2021, 91, 1-4.	10.7	25
60	Effect of diamond surface chemistry and structure on the interfacial microstructure and properties of Al/diamond composites. <i>RSC Advances</i> , 2016, 6, 67252-67259.	3.6	24
61	Effect of Zr Content on Mechanical Properties of Diamond/Cu-Zr Composites Produced by Gas Pressure Infiltration. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 714-720.	2.5	21
62	Thermo-Physical Properties of Ti-Coated Diamond/Al Composites Prepared by Pressure Infiltration. <i>Materials Science Forum</i> , 2010, 654-656, 2572-2575.	0.3	20
63	Effects of long-term thermal aging on the stress corrosion cracking behavior of cast austenitic stainless steels in simulated PWR primary water. <i>Journal of Nuclear Materials</i> , 2016, 469, 262-268.	2.7	20
64	Partial phase diagram of the Ti-Al binary system. <i>Journal of Phase Equilibria and Diffusion</i> , 1996, 17, 117-120.	0.3	19
65	Strengthening of γ phase in a Fe20Cr9Ni cast austenite stainless steel. <i>Materials Characterization</i> , 2013, 84, 120-125.	4.4	19
66	The 1400°C isothermal section of the Ti-Al-Nb ternary system. <i>Journal of Phase Equilibria and Diffusion</i> , 1998, 19, 200-205.	0.3	18
67	Electrical characterization of isotropic conductive adhesive under mechanical loading. <i>Journal of Electronic Materials</i> , 2002, 31, 916-920.	2.2	18
68	Investigation of hardening behavior in Xe ion-irradiated Zr-1Nb. <i>Journal of Nuclear Materials</i> , 2016, 473, 256-263.	2.7	18
69	Effect of Precipitated Phases on the Pitting Corrosion of Z3CN20.09M Cast Duplex Stainless Steel. <i>Materials Transactions</i> , 2013, 54, 839-843.	1.2	17
70	Effect of Xe ²⁶⁺ ion irradiation on the microstructural evolution and mechanical properties of Zr-1Nb at room and high temperature. <i>Journal of Nuclear Materials</i> , 2015, 461, 78-84.	2.7	17
71	Recrystallization behavior of cold-rolled Zr-1Nb alloy. <i>Journal of Nuclear Materials</i> , 2015, 456, 321-328.	2.7	17
72	Mo-interlayer-mediated thermal conductance at Cu/diamond interface measured by time-domain thermoreflectance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 135, 105921.	7.6	17

#	ARTICLE	IF	CITATIONS
73	Unveiling interfacial structure and improving thermal conductivity of Cu/diamond composites reinforced with Zr-coated diamond particles. <i>Vacuum</i> , 2022, 202, 111133.	3.5	17
74	Probabilistic fracture mechanics analysis of thermally aged nuclear piping in a pressurized water reactor. <i>Nuclear Engineering and Design</i> , 2013, 265, 611-618.	1.7	16
75	Tunable coefficient of thermal expansion of Cu-B/diamond composites prepared by gas pressure infiltration. <i>Journal of Alloys and Compounds</i> , 2019, 794, 473-481.	5.5	16
76	Formation behavior of long needle-like M23C6 carbides in a nickel-based alloy without γ' phase during long time aging. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153259.	5.5	16
77	Quantitative estimate of the characteristics of conductive particles in ACA by using nano-indenter. <i>IEEE Transactions on Components and Packaging Technologies</i> , 1998, 21, 248-251.	0.7	15
78	Effects of prior solution treatment on thermal aging behavior of duplex stainless steels. <i>Journal of Nuclear Materials</i> , 2013, 441, 337-342.	2.7	15
79	Tensile behaviour of 316LN stainless steel at elevated temperatures. <i>Materials at High Temperatures</i> , 2014, 31, 198-203.	1.0	15
80	Effects of Ni content on the microstructures, mechanical properties and thermal aging embrittlement behaviors of Fe-20Cr-xNi alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 640-646.	5.6	15
81	Phase-field simulation of multi-phase interactions in Fe-C peritectic solidification. <i>Computational Materials Science</i> , 2020, 171, 109220.	3.0	15
82	Carbide dissolution and grain growth behavior of a nickel-based alloy without γ' phase during solid solution. <i>Journal of Alloys and Compounds</i> , 2020, 825, 154106.	5.5	15
83	Reply to the comment on "Investigation on the 1000, 1150 and 1400 °C isothermal section of the Ti-Al-Nb system" Part I. Ordering of Nb in β -TiAl and β_1 phase. <i>Intermetallics</i> , 1998, 6, 323-327.		14
84	Proton-irradiation-induced damage in Fe-0.3wt.%Cu alloys characterized by positron annihilation and nanoindentation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 307, 545-551.	1.4	14
85	Aluminum carbide hydrolysis induced degradation of thermal conductivity and tensile strength in diamond/aluminum composite. <i>Journal of Composite Materials</i> , 2018, 52, 2709-2717.	2.4	14
86	Effects of scandium addition on the in vitro degradation behavior of biodegradable Mg-1.5Zn-0.6Zr alloy. <i>Journal of Materials Science</i> , 2018, 53, 14075-14086.	3.7	14
87	Interface characterization of a Cu-Ti-coated diamond system. <i>Surface and Coatings Technology</i> , 2015, 278, 163-170.	4.8	13
88	A brittle fracture mechanism in thermally aged duplex stainless steels revealed by in situ high-energy X-ray diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 739, 264-271.	5.6	13
89	Study of Static Recrystallization Behavior of a Nitrogen-Alloyed Ultralow Carbon Austenitic Stainless Steel by Experiment and Simulation. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 4346-4357.	2.5	12
90	Hot deformation behavior of a heat-resistant alloy without γ' -phase. <i>Journal of Iron and Steel Research International</i> , 2020, 27, 820-833.	2.8	12

#	ARTICLE	IF	CITATIONS
91	Improved wear resistance of biodegradable Mg ^{1.5} Zn ^{0.6} Zr alloy by Sc addition. <i>Rare Metals</i> , 2021, 40, 2206-2212.	7.1	12
92	Calculation of Jackson's factor of Mg ₂ Si in Mg melt using coordination polyhedron. <i>Journal of Alloys and Compounds</i> , 2013, 581, 494-497.	5.5	11
93	Effect of milling duration on hydrogen storage thermodynamics and kinetics of ball-milled Ce-Mg-Ni-based alloy powders. <i>Journal of Iron and Steel Research International</i> , 2018, 25, 746-754.	2.8	11
94	Phase-field model of graphene aerogel formation by ice template method. <i>Applied Physics Letters</i> , 2019, 115, 111901.	3.3	11
95	In Situ Observation of the Deformation and Fracture Behaviors of Long-Term Thermally Aged Cast Duplex Stainless Steels. <i>Metals</i> , 2019, 9, 258.	2.3	11
96	The influence of silicon content on the thermal conductivity of Al-Si/diamond composites. , 2009, , .		10
97	Effects of long term thermal aging on high temperature tensile deformation behaviours of duplex stainless steels. <i>Materials at High Temperatures</i> , 2015, 32, 524-529.	1.0	10
98	Effects of Ball Milling Processing Conditions and Alloy Components on the Synthesis of Cu-Nb and Cu-Mo Alloys. <i>Materials</i> , 2019, 12, 1224.	2.9	10
99	Creep behaviour of a novel CoNi-base single-crystal superalloy at high temperature and low stress. <i>Materials Letters</i> , 2020, 262, 127042.	2.6	10
100	Improved corrosion resistance of Mg alloy by a green phosphating: insights into pre-activation, temperature, and growth mechanism. <i>Journal of Materials Science</i> , 2021, 56, 828-843.	3.7	10
101	Effect of thermal aging on the mechanical, intergranular corrosion and corrosion fatigue properties of Z3CN20.09M cast duplex stainless steel. <i>Nuclear Engineering and Technology</i> , 2021, 53, 2591-2599.	2.3	10
102	Hot-Rolled TRIP Steels Based on Dynamic Transformation of Undercooled Austenite. <i>Materials Science Forum</i> , 0, 654-656, 250-253.	0.3	9
103	Effect of thermal aging on the fatigue crack growth behavior of cast duplex stainless steels. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015, 22, 1163-1170.	4.9	9
104	Investigation of ion irradiation hardening behaviors of tempered and long-term thermal aged T92 steel. <i>Journal of Nuclear Materials</i> , 2018, 511, 191-199.	2.7	9
105	Investigation of Stress Evolution Induced by Electromigration in Sn-Ag-Cu Solder Joints Based on an X-Ray Diffraction Technique. <i>Journal of Electronic Materials</i> , 2012, 41, 425-430.	2.2	8
106	Enhanced mechanical properties in Al/diamond composites by Si addition. <i>Rare Metals</i> , 2016, 35, 701-704.	7.1	8
107	Multiphase-field approach with parabolic approximation scheme. <i>Computational Materials Science</i> , 2020, 172, 109322.	3.0	8
108	Fe-C peritectic solidification of polycrystalline ferrite by phase-field method. <i>Computational Materials Science</i> , 2020, 178, 109626.	3.0	8

#	ARTICLE	IF	CITATIONS
109	Microstructural evolution of sandwiched Cr interlayer in Cu/Cr/diamond subjected to heat treatment. <i>Thin Solid Films</i> , 2021, 736, 138911.	1.8	8
110	PRECIPITATION BEHAVIOR OF THE INTERMETALLIC PHASES IN Z3CN20.09M STAINLESS STEEL FOR PRIMARY COOLANT PIPES OF NUCLEAR POWER PLANT. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2013, 49, 415.	0.3	8
111	Effect of yttrium addition on microstructure and orientation of hydride precipitation in Zr-1Nb alloy. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 21116-21126.	7.1	7
112	Effect of thermal aging on the leak-before-break analysis of nuclear primary pipes. <i>Nuclear Engineering and Design</i> , 2014, 280, 493-500.	1.7	7
113	Influence of Initial Microstructures on Deformation Behavior of 316LN Austenitic Steels at 400-900°C. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 694-699.	2.5	7
114	Highly ameliorated gaseous and electrochemical hydrogen storage dynamics of nanocrystalline and amorphous LaMg ₁₂ -type alloys prepared by mechanical milling. <i>Journal of Iron and Steel Research International</i> , 2017, 24, 50-58.	2.8	7
115	Nano-Deformation Behavior of a Thermally Aged Duplex Stainless Steel Investigated by Nanoindentation, FIB and TEM. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 4714-4721.	2.5	7
116	Microstructure and creep strength evolution in G115 steel during creep at 650 °C. <i>Materials Research Express</i> , 2020, 7, 016528.	1.6	7
117	Mechanical Properties of Cu-B/Diamond Composites Prepared by Gas Pressure Infiltration. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 3107-3119.	2.5	7
118	Effects of thermal aging temperature and Cr content on phase separation kinetics in Fe-Cr alloys simulated by the phase field method. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013, 20, 1067-1075.	4.9	6
119	Flow Behavior Modeling of a Nitrogen-Alloyed Ultralow Carbon Stainless Steel During Hot Deformation: A Comparative Study of Constitutive Models. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 4106-4118.	2.5	6
120	Characterization of Impact Deformation Behavior of a Thermally Aged Duplex Stainless Steel by EBSD. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 798-806.	2.9	6
121	Effect of tempering temperatures on microstructures and properties of 0.28C-0.22Ti wear-resistant steel. <i>Materials Science and Technology</i> , 2018, 34, 86-94.	1.6	6
122	Microstructure and mechanical property of biodegradable Mg-1.5Zn-0.6Zr alloy with varying contents of scandium. <i>Materials Letters</i> , 2018, 229, 60-63.	2.6	6
123	Comparison of the effects of pre-activators on morphology and corrosion resistance of phosphate conversion coating on magnesium alloy. <i>Journal of Magnesium and Alloys</i> , 2021, , .	11.9	6
124	EFFECT OF LONG TERM AGING ON THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF CAST AUSTENITIC STAINLESS STEELS. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2011, 46, 1186-1191.	0.3	6
125	Effect of Graphite Content on the Conductivity, Wear Behavior, and Corrosion Resistance of the Organic Layer on Magnesium Alloy MAO Coatings. <i>Coatings</i> , 2022, 12, 434.	2.6	6
126	Microstructural modelling of dynamic recrystallisation in Nb microalloyed steels. <i>Materials Science and Technology</i> , 2012, 28, 778-782.	1.6	5

#	ARTICLE	IF	CITATIONS
127	Effect of cooling rate on microstructure, hardness, and residual stress of 0.28Câ€“0.22Ti wear-resistant steel. Journal of Iron and Steel Research International, 2019, 26, 866-874.	2.8	5
128	Effects of Tempering Temperature on the Microstructure and Mechanical Properties of T92 Heat-Resistant Steel. Metals, 2019, 9, 194.	2.3	5
129	Proton irradiation induced defects in T92 steels: An investigation by TEM and positron annihilation spectroscopy. Nuclear Instruments & Methods in Physics Research B, 2019, 442, 59-66.	1.4	5
130	The Pitting Corrosion Behavior of the Austenitic Stainless Steel 308L-316L Welded Joint. Metals, 2020, 10, 1258.	2.3	5
131	On the temperature-dependent diffusion growth of Ī-Mg5Al2Zn2 ternary intermetallic compound in the Mgâ€“Alâ€“Zn system. Journal of Materials Science, 2021, 56, 3488-3497.	3.7	5
132	Corrosion behavior of Zrâ€“Nbâ€“Cr cladding alloys. Rare Metals, 2013, 32, 480-485.	7.1	4
133	A physically based dynamic recrystallization model considering orientation effects for a nitrogen alloyed ultralow carbon stainless steel during hot forging. Journal of Iron and Steel Research International, 2016, 23, 364-371.	2.8	4
134	Microstructure and properties of 1100ÂMPa grade low-carbon hot-rolled steel by laser welding. Journal of Iron and Steel Research International, 2018, 25, 228-234.	2.8	4
135	Influence of Mo Additions on the Mechanical Properties of Cast Duplex Stainless Steels before and after Thermal Aging. Metals, 2019, 9, 295.	2.3	4
136	MICROSTRUCTURE CONTROL OF HOT ROLLED TRIP STEEL BASED ON DYNAMIC TRANSFORMATION OF UNDERCOOLED AUSTENITE I. Prior Austenite Grain Size. Jinshu Xuebao/Acta Metallurgica Sinica, 2010, 2010, 155-160.	0.3	4
137	Retarding electromigration on the Sn-Ag-Cu solder joints by micro-sized metal-particle reinforcement. , 2011, , .		3
138	Leak-before-break analysis of thermally aged nuclear pipe under different bending moments. Nuclear Engineering and Technology, 2015, 47, 712-718.	2.3	3
139	Characterization of Plastic Deformation Behavior of a Thermally Aged Duplex Stainless Steel. Journal of Materials Engineering and Performance, 2017, 26, 2814-2825.	2.5	3
140	The microstructural evolution and mechanical property in G115 steels during long-term aging at 650 Â°C. Materials Research Express, 2019, 6, 116527.	1.6	3
141	Effects of Thermal Aging on the Low Cycle Fatigue Behaviors of Cast Duplex Stainless Steels. Metals, 2019, 9, 378.	2.3	3
142	Heat transfer in high density electronics packaging. Central South University, 2001, 8, 278-282.	0.5	2
143	MICROSTRUCTURE CONTROL OF HOT ROLLED TRIP STEEL BASED ON DYNAMIC TRANSFORMATION OF UNDERCOOLED AUSTENITE II. Cooling Rate After Dynamic Transformation of Undercooled Austenite. Jinshu Xuebao/Acta Metallurgica Sinica, 2010, 2010, 161-166.	0.3	2
144	Influence of manufacturing processes on Ī ² -phase precipitates and corrosion properties of Zr-1Nb alloys. Journal of Nuclear Materials, 2022, 567, 153831.	2.7	2

#	ARTICLE	IF	CITATIONS
145	Recent Work on Environmental Embrittlement in Silicides. Materials Research Society Symposia Proceedings, 1996, 460, 575.	0.1	1
146	Implementation of the Internet course on conductive adhesives for electronics packaging. , 0, , .		1
147	Properties of two new medium temperature solders. Soldering and Surface Mount Technology, 2009, 21, 4-8.	1.5	1
148	Microstructural Evolution of Rheo-Diecast AZ91D Magnesium Alloy with Gadolinium Addition. Materials Science Forum, 2010, 654-656, 667-670.	0.3	1
149	Thermal Aging Embrittlement Evaluation of Nuclear Primary Pipe Steel by Ductile to Brittle Transition Test. Advanced Materials Research, 2010, 97-101, 797-800.	0.3	1
150	A Method to Prepare TEM Specimens by Focused Ion Beam Milling for Cu/diamond Composites. Microscopy and Microanalysis, 2018, 24, 838-839.	0.4	1
151	Development of an Internet course on electrically conductive adhesives with experiments. , 0, , .		0
152	Thermal Aging of Primary Circuit Piping Materials in PWR Nuclear Power Plant. Materials Research Society Symposia Proceedings, 2009, 1215, 1.	0.1	0
153	Hot Tensile Deformation and Fracture Behavior of a Nitrogen Alloyed Ultralow Carbon Austenitic Stainless Steel. Materials Transactions, 2015, 56, 1984-1991.	1.2	0
154	Interface tailoring and thermal conductivity enhancement in diamond particles reinforced metal matrix composites. , 2020, , 473-493.		0
155	Evaluation of Thermal Aging Embrittlement in Main Coolant Pipe Steel by Small Punch Test. , 2010, , .		0
156	THE MICROSTRUCTURE AND TENSILE FRACTURE BEHAVIOR OF LONG TERM THERMAL AGED Z3CN20-09M STAINLESS STEEL. Jinshu Xuebao/Acta Metallurgica Sinica, 2013, 49, 175.	0.3	0
157	Study on LBB Behavior of Nuclear Primary Pipes After Long-Term Thermal Aging. , 2014, , 501-508.		0
158	Experimental Investigation and Thermodynamic Verification for the Phase Relation around the $\hat{\mu}$ -Mg ₂₃ (Al, Zn) ₃₀ Intermetallic Compound in the Mg-Zn-Al System. Materials, 2021, 14, 6892.	2.9	0