

Xi-Tao Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

154
papers

2,871
citations

31
h-index

46
g-index

159
ext. papers

3,514
ext. citations

3.8
avg, IF

5.42
L-index

#	Paper	IF	Citations
154	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	2.9	0
153	Unveiling interfacial structure and improving thermal conductivity of Cu/diamond composites reinforced with Zr-coated diamond particles. <i>Vacuum</i> , 2022 , 202, 111133	3.7	1
152	Influence of manufacturing processes on β phase precipitates and corrosion properties of Zr-1Nb alloys. <i>Journal of Nuclear Materials</i> , 2022 , 567, 153831	3.3	0
151	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 ,	8.8	4
150	Improved wear resistance of biodegradable Mg _{0.5} Zn _{0.6} Zr alloy by Sc addition. <i>Rare Metals</i> , 2021 , 40, 2206-2212	5.5	4
149	On the temperature-dependent diffusion growth of γ -Mg ₅ Al ₂ Zn ₂ ternary intermetallic compound in the Mg-Al-Zn system. <i>Journal of Materials Science</i> , 2021 , 56, 3488-3497	4.3	0
148	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	4.3	8
147	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 ,	2.6	1
146	Microstructural evolution of sandwiched Cr interlayer in Cu/Cr/diamond subjected to heat treatment. <i>Thin Solid Films</i> , 2021 , 736, 138911	2.2	0
145	Reinforcement size effect on thermal conductivity in Cu-B/diamond composite. <i>Journal of Materials Science and Technology</i> , 2021 , 91, 1-4	9.1	2
144	The Pitting Corrosion Behavior of the Austenitic Stainless Steel 308L-316L Welded Joint. <i>Metals</i> , 2020 , 10, 1258	2.3	1
143	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	5.3	11
142	Fe-C peritectic solidification of polycrystalline ferrite by phase-field method. <i>Computational Materials Science</i> , 2020 , 178, 109626	3.2	4
141	The role of Cr interlayer in determining interfacial thermal conductance between Cu and diamond. <i>Applied Surface Science</i> , 2020 , 515, 146046	6.7	11
140	Carbide dissolution and grain growth behavior of a nickel-based alloy without δ phase during solid solution. <i>Journal of Alloys and Compounds</i> , 2020 , 825, 154106	5.7	3
139	Microstructure and creep strength evolution in G115 steel during creep at 650 °C. <i>Materials Research Express</i> , 2020 , 7, 016528	1.7	1
138	Interface tailoring and thermal conductivity enhancement in diamond particles reinforced metal matrix composites 2020 , 473-493		

137	Mechanical Properties of Cu-B/Diamond Composites Prepared by Gas Pressure Infiltration. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 3107-3119	1.6	3
136	Hot deformation behavior of a heat-resistant alloy without δ -phase. <i>Journal of Iron and Steel Research International</i> , 2020 , 27, 820-833	1.2	4
135	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	8.4	9
134	Formation behavior of long needle-like M23C6 carbides in a nickel-based alloy without δ phase during long time aging. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153259	5.7	4
133	Creep behaviour of a novel CoNi-base single-crystal superalloy at high temperature and low stress. <i>Materials Letters</i> , 2020 , 262, 127042	3.3	6
132	Phase-field simulation of multi-phase interactions in Fe-C peritectic solidification. <i>Computational Materials Science</i> , 2020 , 171, 109220	3.2	10
131	Multiphase-field approach with parabolic approximation scheme. <i>Computational Materials Science</i> , 2020 , 172, 109322	3.2	4
130	Phase-field model of graphene aerogel formation by ice template method. <i>Applied Physics Letters</i> , 2019 , 115, 111901	3.4	5
129	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	3.9	13
128	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	3.9	36
127	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	5.7	9
126	Effects of Ball Milling Processing Conditions and Alloy Components on the Synthesis of Cu-Nb and Cu-Mo Alloys. <i>Materials</i> , 2019 , 12,	3.5	7
125	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	6
124	Effects of Tempering Temperature on the Microstructure and Mechanical Properties of T92 Heat-Resistant Steel. <i>Metals</i> , 2019 , 9, 194	2.3	3
123	Effects of Thermal Aging on the Low Cycle Fatigue Behaviors of Cast Duplex Stainless Steels. <i>Metals</i> , 2019 , 9, 378	2.3	2
122	Proton irradiation induced defects in T92 steels: An investigation by TEM and positron annihilation spectroscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019 , 442, 59-66	1.2	4
121	Effect of cooling rate on microstructure, hardness, and residual stress of 0.28C0.22Ti wear-resistant steel. <i>Journal of Iron and Steel Research International</i> , 2019 , 26, 866-874	1.2	3
120	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	9.5	24

119	The microstructural evolution and mechanical property in G115 steels during long-term aging at 650 °C. <i>Materials Research Express</i> , 2019 , 6, 116527	1.7	1
118	Influence of Mo Additions on the Mechanical Properties of Cast Duplex Stainless Steels before and after Thermal Aging. <i>Metals</i> , 2019 , 9, 295	2.3	3
117	Interfacial products and thermal conductivity of diamond/Al composites reinforced with ZrC-coated diamond particles. <i>Diamond and Related Materials</i> , 2019 , 100, 107565	3.5	14
116	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	5.3	8
115	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	5.7	25
114	Microstructure and properties of 1100 MPa grade low-carbon hot-rolled steel by laser welding. <i>Journal of Iron and Steel Research International</i> , 2018 , 25, 228-234	1.2	2
113	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	2.5	4
112	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	5.7	45
111	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	8.4	19
110	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	2.7	5
109	Effects of scandium addition on biocompatibility of biodegradable Mg _{0.5} Zn _{0.6} Zr alloy. <i>Materials Letters</i> , 2018 , 215, 200-202	3.3	22
108	Effect of tempering temperatures on microstructures and properties of 0.28C _{0.22} Ti wear-resistant steel. <i>Materials Science and Technology</i> , 2018 , 34, 86-94	1.5	5
107	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	3.3	22
106	Effects of scandium addition on the in vitro degradation behavior of biodegradable Mg _{0.5} Zn _{0.6} Zr alloy. <i>Journal of Materials Science</i> , 2018 , 53, 14075-14086	4.3	9
105	Effect of milling duration on hydrogen storage thermodynamics and kinetics of ball-milled CeMgNi-based alloy powders. <i>Journal of Iron and Steel Research International</i> , 2018 , 25, 746-754	1.2	10
104	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	8.4	42
103	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	1.6	4
102	High thermal conductivity of Cu-B/diamond composites prepared by gas pressure infiltration. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 1648-1653	5.7	52

101	A Method to Prepare TEM Specimens by Focused Ion Beam Milling for Cu/diamond Composites. <i>Microscopy and Microanalysis</i> , 2018 , 24, 838-839	0.5	
100	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	3.3	9
99	Effect of Ti interlayer on interfacial thermal conductance between Cu and diamond. <i>Acta Materialia</i> , 2018 , 160, 235-246	8.4	57
98	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	5.3	20
97	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	1.6	16
96	Microstructure and mechanical property of biodegradable Mg _{0.5} Zn _{0.6} Zr alloy with varying contents of scandium. <i>Materials Letters</i> , 2018 , 229, 60-63	3.3	2
95	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	1.2	6
94	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	10	36
93	Characterization of Plastic Deformation Behavior of a Thermally Aged Duplex Stainless Steel. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 2814-2825	1.6	2
92	Non-uniform phase separation in ferrite of a duplex stainless steel. <i>Acta Materialia</i> , 2017 , 140, 388-397	8.4	31
91	Evaluation of hardening behaviors in ion-irradiated Fe ₉ Cr and Fe ₂₀ Cr alloys by nanoindentation technique. <i>Journal of Nuclear Materials</i> , 2016 , 478, 50-55	3.3	24
90	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	8.1	31
89	Enhanced mechanical properties in Al/diamond composites by Si addition. <i>Rare Metals</i> , 2016 , 35, 701-704	4.5	6
88	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	3.3	13
87	Investigation of hardening behavior in Xe ion-irradiated Zr ₁ Nb. <i>Journal of Nuclear Materials</i> , 2016 , 473, 256-263	3.3	11
86	Microstructural evolution in 316LN austenitic stainless steel during solidification process under different cooling rates. <i>Journal of Materials Science</i> , 2016 , 51, 2529-2539	4.3	20
85	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	5.7	30
84	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	3.7	15

83	A physically based dynamic recrystallization model considering orientation effects for a nitrogen alloyed ultralow carbon stainless steel during hot forging. <i>Journal of Iron and Steel Research International</i> , 2016 , 23, 364-371	1.2	4
82	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	8.4	55
81	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	1.6	5
80	High thermal conductivity through interfacial layer optimization in diamond particles dispersed Zr-alloyed Cu matrix composites. <i>Scripta Materialia</i> , 2015 , 109, 72-75	5.6	98
79	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	5.7	72
78	Microstructure, Mechanical Properties and In Vitro Degradation Behavior of a Novel Biodegradable Mg _{0.5} Zn _{0.6} Zr _{0.2} Sc Alloy. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 744-750	9.1	27
77	Effect of Xe ²⁶⁺ ion irradiation on the microstructural evolution and mechanical properties of Zr/Nb at room and high temperature. <i>Journal of Nuclear Materials</i> , 2015 , 461, 78-84	3.3	10
76	Interface characterization of a Cu/Ti-coated diamond system. <i>Surface and Coatings Technology</i> , 2015 , 278, 163-170	4.4	10
75	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	1.2	28
74	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	1.6	3
73	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	1.6	11
72	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	5.3	31
71	A physically-based constitutive model for a nitrogen alloyed ultralow carbon stainless steel. <i>Computational Materials Science</i> , 2015 , 98, 64-69	3.2	54
70	Thermal conductivity of Cu/Zr/diamond composites produced by high temperature/high pressure method. <i>Composites Part B: Engineering</i> , 2015 , 68, 22-26	10	49
69	Recrystallization behavior of cold-rolled Zr/Nb alloy. <i>Journal of Nuclear Materials</i> , 2015 , 456, 321-328	3.3	13
68	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	1.1	7
67	Study on LBB Behavior of Nuclear Primary Pipes after Long-Term Thermal Aging 2015 , 501-508		
66	Hot Tensile Deformation and Fracture Behavior of a Nitrogen Alloyed Ultralow Carbon Austenitic Stainless Steel. <i>Materials Transactions</i> , 2015 , 56, 1984-1991	1.3	

65	Leak-before-break analysis of thermally aged nuclear pipe under different bending moments. <i>Nuclear Engineering and Technology</i> , 2015 , 47, 712-718	2.6	3
64	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	3.1	8
63	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	1.6	22
62	Effects of Ni content on the microstructures, mechanical properties and thermal aging embrittlement behaviors of Fe ₂₀ Cr _x Ni alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 639, 640-646	5.3	10
61	Effects of ion irradiation on microstructure and properties of zirconium alloys—a review. <i>Nuclear Engineering and Technology</i> , 2015 , 47, 323-331	2.6	60
60	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	4.3	33
59	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	5.3	27
58	A modified Zerilli-Armstrong constitutive model to predict hot deformation behavior of 20CrMo alloy steel. <i>Materials & Design</i> , 2014 , 56, 122-127		46
57	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		32
56	Tensile behaviour of 316LN stainless steel at elevated temperatures. <i>Materials at High Temperatures</i> , 2014 , 31, 198-203	1.1	10
55	Microstructure, mechanical property and in vitro biocorrosion behavior of single-phase biodegradable Mg _{0.5} Zn _{0.6} Zr alloy. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 181-189	8.8	20
54	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	3.3	54
53	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	6.7	6
52	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	1.6	27
51	Effect of thermal aging on the leak-before-break analysis of nuclear primary pipes. <i>Nuclear Engineering and Design</i> , 2014 , 280, 493-500	1.8	7
50	Study on LBB Behavior of Nuclear Primary Pipes After Long-Term Thermal Aging 2014 , 501-508		
49	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		148
48	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	6.8	35

47	Corrosion behavior of Zr-Nb-Cr cladding alloys. <i>Rare Metals</i> , 2013 , 32, 480-485	5.5	4
46	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	3.3	71
45	The coupling effects of thermal cycling and high current density on Sn58Bi solder joints. <i>Journal of Materials Science</i> , 2013 , 48, 2318-2325	4.3	22
44	Proton-irradiation-induced damage in Fe-0.3 wt.%Cu alloys characterized by positron annihilation and nanoindentation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 307, 545-551	1.2	13
43	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	5.7	10
42	Strengthening of δ phase in a Fe ₂₀ Cr ₉ Ni cast austenite stainless steel. <i>Materials Characterization</i> , 2013 , 84, 120-125	3.9	12
41	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	1.8	37
40	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	5.3	25
39	Effects of prior solution treatment on thermal aging behavior of duplex stainless steels. <i>Journal of Nuclear Materials</i> , 2013 , 441, 337-342	3.3	14
38	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	5.3	53
37	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		52
36	Grain morphology and crystal structure of pre-transition oxides formed on Zircaloy-4. <i>Corrosion Science</i> , 2013 , 74, 323-331	6.8	38
35	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	3.1	4
34	Probabilistic fracture mechanics analysis of thermally aged nuclear piping in a pressurized water reactor. <i>Nuclear Engineering and Design</i> , 2013 , 265, 611-618	1.8	12
33	The failure models of Sn-based solder joints under coupling effects of electromigration and thermal cycling. <i>Journal of Applied Physics</i> , 2013 , 113, 044904	2.5	16
32	Effect of Precipitated Phases on the Pitting Corrosion of Z3CN20.09M Cast Duplex Stainless Steel. <i>Materials Transactions</i> , 2013 , 54, 839-843	1.3	13
31	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		4
30	Effect of copper content on the thermal conductivity and thermal expansion of Al-Cu/diamond composites. <i>Materials & Design</i> , 2012 , 39, 87-92		54

29	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	1.9	6
28	Microstructural modelling of dynamic recrystallisation in Nb microalloyed steels. <i>Materials Science and Technology</i> , 2012 , 28, 778-782	1.5	5
27	Positron annihilation study of proton-irradiated reactor pressure vessel steels. <i>Radiation Physics and Chemistry</i> , 2012 , 81, 1586-1592	2.5	28
26	Mechanical and thermal properties of carbon nanotube/aluminum composites consolidated by spark plasma sintering. <i>Materials & Design</i> , 2012 , 41, 344-348		68
25	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	5.7	25
24	Enhanced thermal conductivity in copper matrix composites reinforced with titanium-coated diamond particles. <i>Scripta Materialia</i> , 2011 , 65, 1097-1100	5.6	178
23	Effects of electromigration on resistance changes in eutectic SnBi solder joints. <i>Journal of Materials Science</i> , 2011 , 46, 3544-3549	4.3	16
22	Effects of Co additions on electromigration behaviors in Sn ₈₀ Ag ₁₅ Cu-based solder joint. <i>Journal of Materials Science</i> , 2011 , 46, 4896-4905	4.3	32
21	Retarding electromigration on the Sn-Ag-Cu solder joints by micro-sized metal-particle reinforcement 2011 ,		2
20	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		3
19	Microstructural Evolution of Rheo-Diecast AZ91D Magnesium Alloy with Gadolinium Addition. <i>Materials Science Forum</i> , 2010 , 654-656, 667-670	0.4	1
18	Thermo-Physical Properties of Ti-Coated Diamond/Al Composites Prepared by Pressure Infiltration. <i>Materials Science Forum</i> , 2010 , 654-656, 2572-2575	0.4	13
17	Hot-Rolled TRIP Steels Based on Dynamic Transformation of Undercooled Austenite. <i>Materials Science Forum</i> , 2010 , 654-656, 250-253	0.4	8
16	Thermal Aging Embrittlement Evaluation of Nuclear Primary Pipe Steel by Ductile to Brittle Transition Test. <i>Advanced Materials Research</i> , 2010 , 97-101, 797-800	0.5	1
15	Electromigration in Sn-Bi Modified with Polyhedral Oligomeric Silsesquioxane. <i>Journal of Electronic Materials</i> , 2010 , 39, 2513-2521	1.9	25
14	MICROSTRUCTURE CONTROL OF HOT ROLLED TRIP STEEL BASED ON DYNAMIC TRANSFORMATION OF UNDERCOOLED AUSTENITE I. Prior Austenite Grain Size. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2010 , 2010, 155-160		4
13	MICROSTRUCTURE CONTROL OF HOT ROLLED TRIP STEEL BASED ON DYNAMIC TRANSFORMATION OF UNDERCOOLED AUSTENITE II. Cooling Rate After Dynamic Transformation of Undercooled Austenite. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2010 , 2010, 161-166		1
12	Thermal Aging of Primary Circuit Piping Materials in PWR Nuclear Power Plant. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1215, 1		

11	The influence of silicon content on the thermal conductivity of Al-Si/diamond composites 2009 ,		7
10	Properties of two new medium temperature solders. <i>Soldering and Surface Mount Technology</i> , 2009 , 21, 4-8	1.4	1
9	Electrical characterization of isotropic conductive adhesive under mechanical loading. <i>Journal of Electronic Materials</i> , 2002 , 31, 916-920	1.9	14
8	Heat transfer in high density electronics packaging. <i>Central South University</i> , 2001 , 8, 278-282		1
7	Experimental and theoretical characterization of electrical contact in anisotropically conductive adhesive. <i>IEEE Transactions on Advanced Packaging</i> , 2000 , 23, 15-21		25
6	The 1400°C isothermal section of the Ti-Al-Nb ternary system. <i>Journal of Phase Equilibria and Diffusion</i> , 1998 , 19, 200-205		15
5	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 δ -TiAl and β phase. <i>Intermetallics</i> , 1998 , 6, 323-327	3.5	11
4	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		10
3	Investigation on the 1000, 1150 and 1400 °C isothermal section of the Ti-Al-Nb system. <i>Intermetallics</i> , 1996 , 4, 13-22	3.5	54
2	Recent Work on Environmental Embrittlement in Silicides. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 460, 575		1
1	Partial phase diagram of the Ti-Al binary system. <i>Journal of Phase Equilibria and Diffusion</i> , 1996 , 17, 117-120		13