

# Ke Jin

## 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.

93  
papers

3,712  
citations

33  
h-index

59  
g-index

94  
ext. papers

4,690  
ext. citations

5  
avg, IF

5.46  
L-index

#	Paper	IF	Citations
93	Physical Properties of High Entropy Alloys <b>2022</b> , 474-483		
92	Diffusion-mediated chemical concentration variation and void evolution in ion-irradiated NiCoFeCr high-entropy alloy <b>2021</b> , 36, 298		3
91	Self-ion irradiation response of (CoCrFeNi) <sub>94</sub> Ti <sub>2</sub> Al <sub>4</sub> alloy containing coherent nanoprecipitates. <i>Journal of Nuclear Materials</i> , <b>2021</b> , 549, 152889	3.3	1
90	Origin of increased helium density inside bubbles in Ni(10)Fe alloys. <i>Scripta Materialia</i> , <b>2021</b> , 191, 1-6	5.6	6
89	Diffusion-mediated chemical concentration variation and void evolution in ion-irradiated NiCoFeCr high-entropy alloy. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 298-310	2.5	8
88	Helium bubble formation in refractory single-phase concentrated solid solution alloys under MeV He ion irradiation. <i>Journal of Nuclear Materials</i> , <b>2021</b> , 550, 152937	3.3	4
87	Microstructures and mechanical properties of Ta <sub>8</sub> Nb <sub>2</sub> Zr <sub>10</sub> Ti <sub>2</sub> Al refractory high entropy alloys with varying Ta/Ti ratios. <i>Tungsten</i> , <b>2021</b> , 3, 406-414	4.6	1
86	Helium ion irradiation enhanced precipitation and the impact on cavity formation in a HfNbZrTi refractory high entropy alloy. <i>Journal of Nuclear Materials</i> , <b>2021</b> , 552, 153023	3.3	4
85	Mechanical behavior of the HfNbZrTi high entropy alloy after ion irradiation based on micro-pillar compression tests. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 162043	5.7	0
84	An as-cast Ti-V-Cr-Al light-weight medium entropy alloy with outstanding tensile properties. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 877, 160199	5.7	3
83	Thermal stability of (CoCrFeNi) <sub>94</sub> Ti <sub>2</sub> Al <sub>4</sub> alloy containing coherent nanoprecipitates at intermediate temperatures. <i>Materialia</i> , <b>2020</b> , 12, 100775	3.2	5
82	Indirectly probing the structural change in ion-irradiated Zr-Based metallic glasses from small scale mechanical tests. <i>Intermetallics</i> , <b>2020</b> , 121, 106794	3.5	3
81	Interpreting nanovoids in atom probe tomography data for accurate local compositional measurements. <i>Nature Communications</i> , <b>2020</b> , 11, 1022	17.4	16
80	Unfolding the complexity of phonon quasi-particle physics in disordered materials. <i>Npj Computational Materials</i> , <b>2020</b> , 6,	10.9	7
79	Determining dendrite arm spacing in directional solidification using a fast Fourier transform method. <i>Computational Materials Science</i> , <b>2020</b> , 173, 109463	3.2	4
78	From suppressed void growth to significant void swelling in NiCoFeCr complex concentrated solid-solution alloy. <i>Materialia</i> , <b>2020</b> , 9, 100603	3.2	15
77	A novel stress-induced martensitic transformation in a single-phase refractory high-entropy alloy. <i>Scripta Materialia</i> , <b>2020</b> , 189, 129-134	5.6	10

76	Channeling analysis in studying ion irradiation damage in materials containing various types of defects. <i>Journal of Nuclear Materials</i> , <b>2019</b> , 517, 9-16	3.3	13
75	Irradiation effects of medium-entropy alloy NiCoCr with and without pre-indentation. <i>Journal of Nuclear Materials</i> , <b>2019</b> , 524, 60-66	3.3	12
74	Defect evolution in Ni and NiCoCr by in situ 2.8 MeV Au irradiation. <i>Journal of Nuclear Materials</i> , <b>2019</b> , 523, 502-509	3.3	8
73	Temperature-dependent defect accumulation and evolution in Ni-irradiated NiFe concentrated solid-solution alloy. <i>Journal of Nuclear Materials</i> , <b>2019</b> , 519, 1-9	3.3	9
72	A comparative characterization of defect structure in NiCo and NiFe equimolar solid solution alloys under in situ electron irradiation. <i>Scripta Materialia</i> , <b>2019</b> , 166, 96-101	5.6	3
71	Influence of irradiation temperature on void swelling in NiCoFeCrMn and NiCoFeCrPd. <i>Scripta Materialia</i> , <b>2019</b> , 158, 57-61	5.6	45
70	Interpreting Voids in Atom Probe Tomography Data via Experiment and Theory. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 290-291	0.5	
69	Investigating Effects of Alloy Chemical Complexity on Helium Bubble Formation by Accurate Segregation Measurements Using Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1558-1559	0.5	4
68	Optical conductivity of metal alloys with residual resistivities near or above the Mott-Ioffe-Regel limit. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	4
67	Thermal Stability and Mechanical Properties of Low-Activation Single-Phase Ti-V-Ta Medium Entropy Alloys. <i>Jom</i> , <b>2019</b> , 71, 3490-3498	2.1	15
66	Multi-axial and multi-energy channeling study of disorder evolution in ion-irradiated nickel. <i>Journal of Nuclear Materials</i> , <b>2019</b> , 525, 92-101	3.3	5
65	Optimization of heat treatment process of AlMgBi cast alloys with Zn additions by simulation and experimental investigations. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2019</b> , 67, 101684	1.9	4
64	Phase stability of an high-entropy Al-Cr-Fe-Ni-V alloy with exceptional mechanical properties: First-principles and APT investigations. <i>Computational Materials Science</i> , <b>2019</b> , 170, 109161	3.2	7
63	Optimizing process windows for minimizing the pore size of Ni-based single crystal superalloys. <i>Materialia</i> , <b>2019</b> , 8, 100508	3.2	2
62	Helium irradiated cavity formation and defect energetics in Ni-based binary single-phase concentrated solid solution alloys. <i>Acta Materialia</i> , <b>2019</b> , 164, 283-292	8.4	30
61	Effects of Fe concentration on helium bubble formation in NiFe <sub>x</sub> single-phase concentrated solid solution alloys. <i>Materialia</i> , <b>2019</b> , 5, 100183	3.2	16
60	Effect of alloying elements on defect evolution in Ni-20X binary alloys. <i>Acta Materialia</i> , <b>2018</b> , 151, 159-168	6.4	36
59	Fabrication of highly dense isotropic Nd-Fe-B nylon bonded magnets via extrusion-based additive manufacturing. <i>Additive Manufacturing</i> , <b>2018</b> , 21, 495-500	6.1	35

58	Evolution of ion damage at 773K in Ni- containing concentrated solid-solution alloys. <i>Journal of Nuclear Materials</i> , <b>2018</b> , 501, 132-142	3.3	25
57	Delayed damage accumulation by athermal suppression of defect production in concentrated solid solution alloys. <i>Materials Research Letters</i> , <b>2018</b> , 6, 136-141	7.4	31
56	Local structure of NiPd solid solution alloys and its response to ion irradiation. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 755, 242-250	5.7	6
55	Influence of compositional complexity on interdiffusion in Ni-containing concentrated solid-solution alloys. <i>Materials Research Letters</i> , <b>2018</b> , 6, 293-299	7.4	36
54	Quantifying early stage irradiation damage from nanoindentation pop-in tests. <i>Scripta Materialia</i> , <b>2018</b> , 157, 49-53	5.6	12
53	Enhanced strength and ductility of a tungsten-doped CoCrNi medium-entropy alloy. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 3301-3309	2.5	31
52	Single-Phase Concentrated Solid-Solution Alloys: Bridging Intrinsic Transport Properties and Irradiation Resistance. <i>Frontiers in Materials</i> , <b>2018</b> , 5,	4	31
51	Interstitial migration behavior and defect evolution in ion irradiated pure nickel and Ni-xFe binary alloys. <i>Journal of Nuclear Materials</i> , <b>2018</b> , 509, 237-244	3.3	20
50	Synergistic effects of nuclear and electronic energy deposition on damage production in KTaO3. <i>Materials Research Letters</i> , <b>2018</b> , 6, 531-536	7.4	13
49	A comparison study of local lattice distortion in Ni80Pd20 binary alloy and FeCoNiCrPd high-entropy alloy. <i>Scripta Materialia</i> , <b>2018</b> , 156, 14-18	5.6	28
48	Enhanced void swelling in NiCoFeCrPd high-entropy alloy by indentation-induced dislocations. <i>Materials Research Letters</i> , <b>2018</b> , 6, 584-591	7.4	27
47	Chemical complexity induced local structural distortion in NiCoFeMnCr high-entropy alloy. <i>Materials Research Letters</i> , <b>2018</b> , 6, 450-455	7.4	35
46	Phase stability of single phase Al0.12CrNiFeCo high entropy alloy upon irradiation. <i>Materials and Design</i> , <b>2018</b> , 160, 1208-1216	8.1	30
45	Lattice Distortion and Phase Stability of Pd-Doped NiCoFeCr Solid-Solution Alloys. <i>Entropy</i> , <b>2018</b> , 20,	2.8	14
44	Local lattice distortion in NiCoCr, FeCoNiCr and FeCoNiCrMn concentrated alloys investigated by synchrotron X-ray diffraction. <i>Materials and Design</i> , <b>2018</b> , 155, 1-7	8.1	50
43	Evolution of local lattice distortion under irradiation in medium- and high-entropy alloys. <i>Materialia</i> , <b>2018</b> , 2, 73-81	3.2	46
42	Pressure-induced fcc to hcp phase transition in Ni-based high entropy solid solution alloys. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 011902	3.4	50
41	Amorphization due to electronic energy deposition in defective strontium titanate. <i>Acta Materialia</i> , <b>2017</b> , 127, 400-406	8.4	21

40	Radiation-induced segregation on defect clusters in single-phase concentrated solid-solution alloys. <i>Acta Materialia</i> , <b>2017</b> , 127, 98-107	8.4	128
39	Intrinsic properties and strengthening mechanism of monocrystalline Ni-containing ternary concentrated solid solutions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 695, 74-79	5.3	29
38	X-ray absorption investigation of local structural disorder in Ni <sub>1-x</sub> Fe <sub>x</sub> (x = 0.10, 0.20, 0.35, and 0.50) alloys. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 165105	2.5	2
37	Irradiation-induced damage evolution in concentrated Ni-based alloys. <i>Acta Materialia</i> , <b>2017</b> , 135, 54-60	8.4	35
36	The effect of injected interstitials on void formation in self-ion irradiated nickel containing concentrated solid solution alloys. <i>Journal of Nuclear Materials</i> , <b>2017</b> , 488, 328-337	3.3	34
35	Mechanisms of radiation-induced segregation in CrFeCoNi-based single-phase concentrated solid solution alloys. <i>Acta Materialia</i> , <b>2017</b> , 126, 182-193	8.4	102
34	Thermophysical properties of Ni-containing single-phase concentrated solid solution alloys. <i>Materials and Design</i> , <b>2017</b> , 117, 185-192	8.1	69
33	Understanding of the Elemental Diffusion Behavior in Concentrated Solid Solution Alloys. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2017</b> , 38, 434-444	1	49
32	Synergistic effects of nuclear and electronic energy loss in KTaO <sub>3</sub> under ion irradiation. <i>AIP Advances</i> , <b>2017</b> , 7, 015016	1.5	15
31	Effects of chemical alternation on damage accumulation in concentrated solid-solution alloys. <i>Scientific Reports</i> , <b>2017</b> , 7, 4146	4.9	24
30	Local Structure and Short-Range Order in a NiCoCr Solid Solution Alloy. <i>Physical Review Letters</i> , <b>2017</b> , 118, 205501	7.4	156
29	Quantum critical behavior in the asymptotic limit of high disorder in the medium entropy alloy NiCoCr <sub>0.8</sub> . <i>Npj Quantum Materials</i> , <b>2017</b> , 2,	5	13
28	Influence of chemical disorder on energy dissipation and defect evolution in advanced alloys. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 2363-2375	2.5	78
27	Mechanism of Radiation Damage Reduction in Equiatomic Multicomponent Single Phase Alloys. <i>Physical Review Letters</i> , <b>2016</b> , 116, 135504	7.4	250
26	Quantum Critical Behavior in a Concentrated Ternary Solid Solution. <i>Scientific Reports</i> , <b>2016</b> , 6, 26179	4.9	36
25	A coupled effect of nuclear and electronic energy loss on ion irradiation damage in lithium niobate. <i>Acta Materialia</i> , <b>2016</b> , 105, 429-437	8.4	34
24	Investigation of defect clusters in ion-irradiated Ni and NiCo using diffuse X-ray scattering and electron microscopy. <i>Journal of Nuclear Materials</i> , <b>2016</b> , 469, 153-161	3.3	20
23	Formation and growth of stacking fault tetrahedra in Ni via vacancy aggregation mechanism. <i>Scripta Materialia</i> , <b>2016</b> , 114, 137-141	5.6	35

22	Direct Observation of Defect Range and Evolution in Ion-Irradiated Single Crystalline Ni and Ni Binary Alloys. <i>Scientific Reports</i> , <b>2016</b> , 6, 19994	4.9	100
21	Tailoring the physical properties of Ni-based single-phase equiatomic alloys by modifying the chemical complexity. <i>Scientific Reports</i> , <b>2016</b> , 6, 20159	4.9	124
20	Effects of Fe concentration on the ion-irradiation induced defect evolution and hardening in Ni-Fe solid solution alloys. <i>Acta Materialia</i> , <b>2016</b> , 121, 365-373	8.4	54
19	Enhancing radiation tolerance by controlling defect mobility and migration pathways in multicomponent single-phase alloys. <i>Nature Communications</i> , <b>2016</b> , 7, 13564	17.4	336
18	Ion irradiation induced defect evolution in Ni and Ni-based FCC equiatomic binary alloys. <i>Journal of Nuclear Materials</i> , <b>2016</b> , 471, 193-199	3.3	41
17	Effects of compositional complexity on the ion-irradiation induced swelling and hardening in Ni-containing equiatomic alloys. <i>Scripta Materialia</i> , <b>2016</b> , 119, 65-70	5.6	156
16	Enhanced damage resistance and novel defect structure of CrFeCoNi under in situ electron irradiation. <i>Scripta Materialia</i> , <b>2016</b> , 125, 5-9	5.6	42
15	Ferromagnetism and nonmetallic transport of thin-film $\text{FeSi}(2)$ : a stabilized metastable material. <i>Physical Review Letters</i> , <b>2015</b> , 114, 147202	7.4	24
14	Point defect evolution in Ni, NiFe and NiCr alloys from atomistic simulations and irradiation experiments. <i>Acta Materialia</i> , <b>2015</b> , 99, 69-76	8.4	93
13	Influence of chemical disorder on energy dissipation and defect evolution in concentrated solid solution alloys. <i>Nature Communications</i> , <b>2015</b> , 6, 8736	17.4	330
12	Ab initio molecular dynamics investigations of low-energy recoil events in Ni and NiCo. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 435006	1.8	10
11	Synergy of elastic and inelastic energy loss on ion track formation in SrTiO <sub>3</sub> . <i>Scientific Reports</i> , <b>2015</b> , 5, 7726	4.9	82
10	Argon Cluster Sputtering Source for ToF-SIMS Depth Profiling of Insulating Materials: High Sputter Rate and Accurate Interfacial Information. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2015</b> , 26, 1283-90	3.5	22
9	Electronic stopping powers for heavy ions in SiC and SiO <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 044903	2.5	30
8	New ion beam materials laboratory for materials modification and irradiation effects research. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 338, 19-30	1.2	106
7	The effect of electronic energy loss on irradiation-induced grain growth in nanocrystalline oxides. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 8051-9	3.6	51
6	Angular distribution and recoil effect for 1 MeV Au <sup>+</sup> ions through a Si <sub>3</sub> N <sub>4</sub> thin foil. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 332, 346-350	1.2	
5	ToF-SIMS depth profiling of insulating samples, interlaced mode or non-interlaced mode?. <i>Surface and Interface Analysis</i> , <b>2014</b> , 46, 257-260	1.5	10

4	Effects of boron-nitride substrates on Stone-Wales defect formation in graphene: An ab initio molecular dynamics study. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 203106	3-4	5
3	Ion distribution and electronic stopping power for Au ions in silicon carbide. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 307, 65-70	1-2	19
2	Surface modification of single track-etched nanopores with surfactant CTAB. <i>Langmuir</i> , <b>2009</b> , 25, 8870-4		28
1	Electric energy generation in single track-etched nanopores. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 163116	3-4	96