

# Run-Guang Li

## List of Publications by Year in descending order

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42  
papers

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citations

393982

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315357

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42  
docs citations

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times ranked

1575  
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#	ARTICLE	IF	CITATIONS
1	Phase Evolution and Thermal Expansion Behavior of a $\gamma$ -Phase Precipitated Ni-Based Superalloy by Synchrotron X-Ray Diffraction. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 93-102.	1.5	4
2	Stress-induced reorientation of hydrides in Zr-1Nb-0.01Cu cladding tube studied by synchrotron X-ray diffraction and EBSD. <i>Journal of Nuclear Materials</i> , 2022, 558, 153374.	1.3	3
3	Unveiling the origins of work-hardening enhancement and mechanical instability in laser shock peened titanium. <i>Acta Materialia</i> , 2022, 229, 117810.	3.8	18
4	In-situ synchrotron-based high energy X-ray diffraction study of the deformation mechanism of $\gamma$ -hydrides in a commercially pure titanium. <i>Scripta Materialia</i> , 2022, 213, 114608.	2.6	5
5	Ultra-wide-temperature-range superelasticity and intrinsic two-way shape memory effect in Co-Ni-Ga microwires. <i>Applied Physics Letters</i> , 2022, 120, 151903.	1.5	2
6	Mechanical, corrosion and magnetic behavior of a CoFeMn1.2NiGa0.8 high entropy alloy. <i>Journal of Materials Science and Technology</i> , 2021, 73, 139-144.	5.6	11
7	Plastic accommodation during tensile deformation of gradient structure. <i>Science China Materials</i> , 2021, 64, 1534-1544.	3.5	30
8	Grain-orientation-dependent phase transformation kinetics in austenitic stainless steel under low-temperature uniaxial loading. <i>Materialia</i> , 2021, 15, 101030.	1.3	1
9	Micromechanical Behaviors of Fe <sub>20</sub> Co <sub>30</sub> Cr <sub>25</sub> Ni <sub>25</sub> High Entropy Alloys with Partially and Completely Recrystallized Microstructures Investigated by In-Situ High-Energy X-ray Diffraction. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 3674-3683.	1.1	4
10	A Low-Cost Ni-Mn-Ti-B High-Temperature Shape Memory Alloy with Extraordinary Functional Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 31870-31879.	4.0	15
11	Hierarchical crack buffering triples ductility in eutectic herringbone high-entropy alloys. <i>Science</i> , 2021, 373, 912-918.	6.0	304
12	In situ neutron diffraction study of a new type of stress-induced confined martensitic transformation in Fe <sub>22</sub> Co <sub>20</sub> Ni <sub>19</sub> Cr <sub>20</sub> Mn <sub>12</sub> Al <sub>7</sub> high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 771, 138555.	2.6	15
13	Magnetic-field-induced strain-glass-to-martensite transition in a Fe-Mn-Ga alloy. <i>Acta Materialia</i> , 2020, 183, 11-23.	3.8	31
14	Effect of initial microstructure on the micromechanical behavior of Ti-55531 titanium alloy investigated by in-situ high-energy X-ray diffraction. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 772, 138806.	2.6	25
15	Large room-temperature elastocaloric effect in a bulk polycrystalline Ni-Ti-Cu-Co alloy with low isothermal stress hysteresis. <i>Applied Materials Today</i> , 2020, 21, 100844.	2.3	13
16	In situ investigation of the deformation behaviors of Fe <sub>20</sub> Co <sub>30</sub> Cr <sub>25</sub> Ni <sub>25</sub> and Fe <sub>20</sub> Co <sub>30</sub> Cr <sub>30</sub> Ni <sub>20</sub> high entropy alloys by high-energy X-ray diffraction. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 795, 139936.	2.6	8
17	Superior strength-ductility synergy by hetero-structuring high manganese steel. <i>Materials Research Letters</i> , 2020, 8, 417-423.	4.1	25
18	Microscopic stress and crystallographic orientation of hydrides precipitated in Zr-1Nb-0.01Cu cladding tube investigated by high-energy X-ray diffraction and EBSD. <i>Journal of Nuclear Materials</i> , 2020, 542, 152534.	1.3	5

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19	Micromechanical behaviors related to confined deformation in pure titanium. MATEC Web of Conferences, 2020, 321, 12018.	0.1	0
20	Mechanical behavior in boron-microalloyed CoCrNi medium-entropy alloy studied by in situ high-energy X-ray diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 788, 139600.	2.6	32
21	Unprecedented non-hysteretic superelasticity of [001]-oriented NiCoFeGa single crystals. Nature Materials, 2020, 19, 712-718.	13.3	95
22	Intrinsic two-way shape memory effect in a Ni-Mn-Sn metamagnetic shape memory microwire. Journal of Materials Science and Technology, 2020, 45, 44-48.	5.6	10
23	Residual stress provides significant strengthening and ductility in gradient structured materials. Materials Research Letters, 2019, 7, 433-438.	4.1	74
24	Ductile Ti-rich high-entropy alloy controlled by stress induced martensitic transformation and mechanical twinning. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 763, 138147.	2.6	29
25	Wide-temperature-range perfect superelasticity and giant elastocaloric effect in a high entropy alloy. Materials Research Letters, 2019, 7, 482-489.	4.1	51
26	Deformation-induced martensitic transformation kinetics and correlative micromechanical behavior of medium-Mn transformation-induced plasticity steel. Journal of Materials Science and Technology, 2019, 35, 1779-1786.	5.6	41
27	Ultra-high cyclability of a large elastocaloric effect in multiferroic phase-transforming materials. Materials Research Letters, 2019, 7, 137-144.	4.1	41
28	Superelastic effect in Ti-rich high entropy alloys via stress-induced martensitic transformation. Scripta Materialia, 2019, 162, 112-117.	2.6	39
29	A brittle fracture mechanism in thermally aged duplex stainless steels revealed by in situ high-energy X-ray diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 739, 264-271.	2.6	13
30	Multiscale mechanical fatigue damage of stainless steel investigated by neutron diffraction and X-ray microdiffraction. Acta Materialia, 2019, 165, 336-345.	3.8	18
31	Manipulation of magnetostructural transition and realization of prominent multifunctional magneto-responsive properties in NiCoMnIn alloys. Physical Review Materials, 2019, 3, .	0.9	10
32	Magnetic field-induced magnetostructural transition and huge tensile superelasticity in an oligocrystalline Ni-Cu-Co-Mn-In microwire. IUCr, 2019, 6, 843-853.	1.0	15
33	The in-depth residual strain heterogeneities due to an indentation and a laser shock peening for Ti-6Al-4V titanium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 714, 140-145.	2.6	20
34	Unraveling submicron-scale mechanical heterogeneity by three-dimensional X-ray microdiffraction. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 483-488.	3.3	52
35	Cryogenic temperature toughening and strengthening due to gradient phase structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 358-364.	2.6	12
36	In situ high-energy X-ray diffraction mapping of $\frac{1}{4}$ bands propagation in medium-Mn transformation-induced plasticity steels. Materials Research Letters, 2018, 6, 662-667.	4.1	28

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37	In situ synchrotron X-ray diffraction investigations of the physical mechanism of ultra-low strain hardening in Ti-30Zr-10Nb alloy. <i>Acta Materialia</i> , 2018, 154, 45-55.	3.8	40
38	Orientation-dependent fatigue damage in planar slip metals. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 375, 012029.	0.3	0
39	Giant negative thermal expansion in Fe-Mn-Ga magnetic shape memory alloys. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	19
40	Manipulation of facet orientation in hybrid perovskite polycrystalline films by cation cascade. <i>Nature Communications</i> , 2018, 9, 2793.	5.8	189
41	Giant and reversible room-temperature magnetocaloric effect in Ti-doped Ni-Co-Mn-Sn magnetic shape memory alloys. <i>Acta Materialia</i> , 2017, 134, 236-248.	3.8	145
42	Novel elastic deformation mechanism in multifunctional Ti-Nb alloy. <i>Materials Letters</i> , 2017, 186, 378-381.	1.3	1