

Xiaodong Wang

List of Publications by Year in descending order

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48
papers

852
citations

471061

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500791

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all docs

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docs citations

48
times ranked

922
citing authors

#	ARTICLE	IF	CITATIONS
1	The austenite reversion and co-precipitation behavior of an ultra-low carbon medium manganese quenching-partitioning-tempering steel. <i>Acta Materialia</i> , 2018, 146, 126-141.	3.8	93
2	The atomic origin of nickel-doping-induced catalytic enhancement in MoS ₂ for electrochemical hydrogen production. <i>Nanoscale</i> , 2019, 11, 7123-7128.	2.8	75
3	Effects of rare earth addition on microstructure and mechanical properties of a Fe-15Mn-1.5Al-0.6C TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 608, 106-113.	2.6	60
4	Dislocation-mediated shear amorphization in boron carbide. <i>Science Advances</i> , 2021, 7, .	4.7	49
5	Dealloying Kinetics of AgAu Nanoparticles by <i>In Situ</i> Liquid-Cell Scanning Transmission Electron Microscopy. <i>Nano Letters</i> , 2020, 20, 1944-1951.	4.5	47
6	Van der Waals interfacial reconstruction in monolayer transition-metal dichalcogenides and gold heterojunctions. <i>Nature Communications</i> , 2020, 11, 1011.	5.8	47
7	Measurement of microstructural parameters of nanocrystalline Fe-30wt.%Ni alloy produced by surface mechanical attrition treatment. <i>Journal of Alloys and Compounds</i> , 2009, 474, 546-550.	2.8	45
8	Microstructures in a resistance spot welded high strength dual phase steel. <i>Materials Characterization</i> , 2010, 61, 341-346.	1.9	44
9	Microstructural origin of ultrahigh damping capacity in Ni50.8Ti49.2 alloy containing nanodomains induced by insufficient annealing and low-temperature aging. <i>Acta Materialia</i> , 2021, 205, 116541.	3.8	29
10	An advancement in the synthesis of unique soft magnetic CoCuFeNiZn high entropy alloy thin films. <i>Scientific Reports</i> , 2021, 11, 8836.	1.6	26
11	Strengthening effect of nanoscale precipitation and transformation induced plasticity in a hot rolled copper-containing ferrite-based lightweight steel. <i>Scripta Materialia</i> , 2017, 129, 25-29.	2.6	23
12	Microstructure and mechanical properties of Nb and Ti microalloyed lightweight γ -TRIP steel. <i>Materials Characterization</i> , 2020, 164, 110324.	1.9	23
13	Atomic scale structural characterization of B2 phase precipitated along FCC twin boundary in a CoCrFeNiAl _{0.3} high entropy alloy. <i>Scripta Materialia</i> , 2019, 162, 161-165.	2.6	21
14	Atomic Ni and Cu co-anchored 3D nanoporous graphene as an efficient oxygen reduction electrocatalyst for zinc-air batteries. <i>Nanoscale</i> , 2021, 13, 10862-10870.	2.8	21
15	Orientation Relationships between Ferrite and Cementite by Edge-to-edge Matching Principle. <i>Journal of Materials Science and Technology</i> , 2011, 27, 475-480.	5.6	18
16	Precipitation of T ₁ phase in 2198 Al-Li alloy studied by atomic-resolution HAADF-STEM. <i>Journal of Materials Research</i> , 2019, 34, 3535-3544.	1.2	18
17	Structures and Structural Evolution of Sublayer Surfaces of Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21419-21424.	7.2	18
18	Occurrence of the R-phase with increased stability induced by low temperature precipitate-free aging in a Ni50.9Ti49.1 alloy. <i>Acta Materialia</i> , 2022, 227, 117688.	3.8	18

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19	Ultra-high damping capacity achieved by modulating R phase in Ti49.2Ni50.8 shape memory alloy wires. <i>Scripta Materialia</i> , 2020, 183, 102-106.	2.6	17
20	Characterization of Gd-rich precipitates in a fully lamellar TiAl alloy. <i>Scripta Materialia</i> , 2017, 137, 50-54.	2.6	14
21	Effect of deformation induced B2 precipitates on the microstructure and mechanical property of Al0.3CoCrFeNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153445.	2.8	13
22	Atomic-scale understanding of the $\hat{1}^3/\hat{1}^2$ interface in a TiAl alloy. <i>Journal of Alloys and Compounds</i> , 2020, 846, 156381.	2.8	12
23	Effect of Coiling Temperature on Microstructure and Tensile Behavior of a Hot-Rolled Ferritic Lightweight Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 5918-5931.	1.1	11
24	Photomechanical effect leading to extraordinary ductility in covalent semiconductors. <i>Physical Review B</i> , 2019, 100, .	1.1	11
25	One-dimensional Co-Cu-Fe-Ni-Zn high-entropy alloy nanostructures. <i>Materials Research Letters</i> , 2021, 9, 285-290.	4.1	10
26	Low and room temperatures tensile properties of a nanoprecipitate-strengthened (FeCoCr)40Ni40Al10Cu10 high-entropy alloy. <i>Materials Characterization</i> , 2018, 145, 177-184.	1.9	9
27	Effect of secondary phases' structure on the dielectric properties of $\hat{1}^2$ -SiAlON. <i>Materials Characterization</i> , 2019, 155, 109815.	1.9	9
28	Room-temperature superplasticity in Au nanowires and their atomistic mechanisms. <i>Nanoscale</i> , 2019, 11, 8727-8735.	2.8	9
29	Deformation behavior of ultrahard Al0.3CoCrFeNi high-entropy alloy treated by plasma nitriding. <i>Materials Letters</i> , 2019, 255, 126566.	1.3	7
30	Enhanced densification and mechanical properties of $\hat{1}^2$ -boron by in-situ formed boron-rich oxide. <i>Journal of Materials Science and Technology</i> , 2022, 99, 148-160.	5.6	7
31	Grain growth kinetics of nanocrystalline martensite in Fe-30wt.%Ni alloy. <i>Materials Letters</i> , 2008, 62, 3262-3265.	1.3	6
32	Graphite interface mediated grain-boundary sliding leads to enhanced mechanical properties of nanocrystalline silicon carbide. <i>Materialia</i> , 2019, 7, 100394.	1.3	6
33	Microstructural Evolution of a Medium Carbon Advanced High Strength Steel Heat-Treated by Quenching-Partitioning Process. <i>Steel Research International</i> , 2015, 86, 252-256.	1.0	5
34	A phenomenon of strain induced bainitic transformation and its effect on strength enhancement in a lightweight transformation-induced-plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 751, 340-350.	2.6	5
35	Ordered stacking faults within nanosized silicon precipitates in aluminum alloy. <i>Materials Letters</i> , 2017, 190, 225-228.	1.3	4
36	Realization of Selective Strengthening of Ferrite by Nb/V Microalloying in a Medium Carbon Lightweight $\hat{1}$ -TRIP Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 2460-2468.	1.1	4

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37	Study on the precipitates in various aging stages and composite strengthening effect of precipitates and long-period stacking ordered structure of Mg-Gd-Y-Ni alloy. Journal of Materials Research, 2020, 35, 172-184.	1.2	4
38	Magnetic coupling in Mn ₃ O ₄ -coated δ -MnOOH nanowires. Surface Innovations, 2018, 6, 250-257.	1.4	3
39	Shear band formation during nanoindentation of EuB ₆ rare-earth hexaboride. Communications Materials, 2022, 3, .	2.9	3
40	Structures and Structural Evolution of Sublayer Surfaces of Metal-Organic Frameworks. Angewandte Chemie, 2020, 132, 21603-21608.	1.6	2
41	Observations of multi-component boride precipitates in ultrahard boron carbide. Materials Characterization, 2021, 176, 111106.	1.9	2
42	EFFECT OF NITROGEN ON MARTENSITIC TRANSFORMATION AND MECHANICAL PROPERTIES OF TWIP STEEL. Jinshu Xuebao/Acta Metallurgica Sinica, 2013, 48, 769-774.	0.3	2
43	In-situ observation of microcrack evolution in a dual-phase steel during tensile straining. Materials Science and Technology, 2020, 36, 674-680.	0.8	1
44	Vacancy-driven shear localization in silicon nitride. Scripta Materialia, 2021, 190, 163-167.	2.6	1
45	Microstructural Evolution of a Medium Carbon Advanced High Strength Steel Heat-Treated by Quenching-Partitioning Process. , 2013, , 885-889.		0
46	Direct Evidence for the Modulation Caused by Ti Substitution of Ta in a ($\text{Ta}_{2}\text{O}_{5}$) _{0.92} ($\text{Ta}_{1-x}\text{Ti}_{x}\text{O}_{5}$) _{0.08} Ceramic by Analytical Electron Microscopy. Journal of the American Ceramic Society, 2014, 97, 350-353.		0
47	Microstructural Evolution of a Medium Carbon Advanced High Strength Steel Heat-Treated by Quenching-Partitioning Process. , 2013, , 885-889.		0
48	Design and Characterization for Advanced High Strength Nb-Containing Dual-Phase Steels. , 0, , 173-178.		0