

Weizong Xu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A deep convolutional neural network to analyze position averaged convergent beam electron diffraction patterns. <i>Ultramicroscopy</i> , 2018, 188, 59-69.	1.9	47
2	Numerical modeling of specimen geometry for quantitative energy dispersive X-ray spectroscopy. <i>Ultramicroscopy</i> , 2018, 184, 100-108.	1.9	6
3	On the origin and behavior of irradiation-induced c-component dislocation loops in magnesium. <i>Acta Materialia</i> , 2017, 131, 457-466.	7.9	16
4	Absolute-Scale Comparison with Simulation for Quantitative Energy-Dispersive X-Ray Spectroscopy in Atomic-Resolution Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 388-389.	0.4	1
5	Calcination Temperature Dependent Catalytic Activity and Stability of IrO ₂ â€“Ta ₂ O ₅ Anodes for Oxygen Evolution Reaction in Aqueous Sulfate Electrolytes. <i>Journal of the Electrochemical Society</i> , 2017, 164, F895-F900.	2.9	42
6	Standardless EDS Composition Analysis using Quantitative Annular Dark-Field Imaging. <i>Microscopy and Microanalysis</i> , 2017, 23, 512-513.	0.4	0
7	A Convolutional Neural Network Approach to Thickness Determination using Position Averaged Convergent Beam Electron Diffraction. <i>Microscopy and Microanalysis</i> , 2017, 23, 120-121.	0.4	2
8	Novel FIB-less Fabrication of Electrical Devices for in-situ Biasing. <i>Microscopy and Microanalysis</i> , 2017, 23, 1502-1503.	0.4	0
9	Numerical Modeling of Specimen Geometry for Quantitative Multiple Detector EDS. <i>Microscopy and Microanalysis</i> , 2017, 23, 390-391.	0.4	0
10	Utilizing High-temperature Atomic-resolution STEM and EELS to Determine Reconstructed Surface Structure of Complex Oxide. <i>Microscopy and Microanalysis</i> , 2017, 23, 1596-1597.	0.4	0
11	In-situ-by-Ex-situ: FIB-less Preparation of Bulk Samples on Heating Membranes for Atomic Resolution STEM Imaging. <i>Microscopy and Microanalysis</i> , 2016, 22, 774-775.	0.4	1
12	Resolving Atomic Scale Chemistry and Structure at NO and Ba Passivated SiC/SiO ₂ Interfaces. <i>Microscopy and Microanalysis</i> , 2016, 22, 1658-1659.	0.4	0
13	Structure and chemistry of passivated SiC/SiO ₂ interfaces. <i>Applied Physics Letters</i> , 2016, 108, 201607.	3.3	34
14	Direct conversion of h-BN into c-BN and formation of epitaxial c-BN/diamond heterostructures. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	31
15	In-situ real-space imaging of single crystal surface reconstructions via electron microscopy. <i>Applied Physics Letters</i> , 2016, 109, 201601.	3.3	17
16	Quantitative atomic resolution elemental mapping via absolute-scale energy dispersive X-ray spectroscopy. <i>Ultramicroscopy</i> , 2016, 168, 7-16.	1.9	49
17	Influence of experimental conditions on atom column visibility in energy dispersive X-ray spectroscopy. <i>Ultramicroscopy</i> , 2016, 171, 1-7.	1.9	10
18	A numerical model for multiple detector energy dispersive X-ray spectroscopy in the transmission electron microscope. <i>Ultramicroscopy</i> , 2016, 164, 51-61.	1.9	19

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19	Effect of nano-oxide particle size on radiation resistance of iron-chromium alloys. <i>Journal of Nuclear Materials</i> , 2016, 469, 72-81.	2.7	21
20	Long-term stability of 14YT-4Sc alloy at high temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 647, 222-228.	5.6	7
21	Influence of Convergence Angle and Finite Effective Source Size for Quantitative Atomic Resolution EDXS. <i>Microscopy and Microanalysis</i> , 2015, 21, 1093-1094.	0.4	0
22	Effect of Specimen Geometry on Quantitative EDS Analysis with Four-Quadrant Super-X Detectors. <i>Microscopy and Microanalysis</i> , 2015, 21, 1091-1092.	0.4	0
23	Effect of Ag on interfacial segregation in Mg-Gd-Y(Ag)-Zr alloy. <i>Acta Materialia</i> , 2015, 95, 20-29.	7.9	95
24	Microstructures and Stabilization Mechanisms of Nanocrystalline Iron-Chromium Alloys with Hafnium Addition. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 4394-4404.	2.2	20
25	Finite element simulation and experimental investigation on homogeneity of Mg-9.8Gd-2.7Y-0.4Zr magnesium alloy processed by repeated-upsetting. <i>Journal of Materials Processing Technology</i> , 2015, 225, 310-317.	6.3	12
26	Influence of scandium addition on the high-temperature grain size stabilization of oxide-dispersion-strengthened (ODS) ferritic alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 636, 565-571.	5.6	23
27	Strong and Conductive Dry Carbon Nanotube Films by Microcombing. <i>Small</i> , 2015, 11, 3830-3836.	10.0	56
28	High-temperature grain size stabilization of nanocrystalline Fe-Cr alloys with Hf additions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 613, 289-295.	5.6	36
29	Dynamic Void Growth and Shrinkage in Mg under Electron Irradiation. <i>Materials Research Letters</i> , 2014, 2, 176-183.	8.7	7
30	Size effect of primary Y ₂ O ₃ additions on the characteristics of the nanostructured ferritic ODS alloys: Comparing as-milled and as-milled/annealed alloys using S/TEM. <i>Journal of Nuclear Materials</i> , 2014, 452, 223-229.	2.7	34
31	Nucleation and growth mechanism of Ag precipitates in a CuAgZr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 610, 85-90.	5.6	22
32	In-situ atomic-scale observation of irradiation-induced void formation. <i>Nature Communications</i> , 2013, 4, 2288.	12.8	98
33	Ultrastrong Mg Alloy via Nano-spaced Stacking Faults. <i>Materials Research Letters</i> , 2013, 1, 61-66.	8.7	268
34	Effect of carbon nanotube length on thermal, electrical and mechanical properties of CNT/bismaleimide composites. <i>Carbon</i> , 2013, 53, 145-152.	10.3	166
35	Twinning in cryomilled nanocrystalline Mg powder. <i>Philosophical Magazine Letters</i> , 2013, 93, 457-464.	1.2	5
36	Morphology, structure and composition of precipitates in Al _{0.3} CoCrCu _{0.5} FeNi high-entropy alloy. <i>Intermetallics</i> , 2013, 32, 329-336.	3.9	82

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37	Significant hardening due to the formation of a sigma phase matrix in a high entropy alloy. <i>Intermetallics</i> , 2013, 33, 81-86.	3.9	153
38	Deformation-induced ϵ phase in nanocrystalline Mo. <i>Scripta Materialia</i> , 2013, 68, 130-133.	5.2	29
39	Grain Size Effect on Deformation Mechanisms of Nanocrystalline bcc Metals. <i>Materials Research Letters</i> , 2013, 1, 26-31.	8.7	78
40	Dislocations with edge components in nanocrystalline bcc Mo. <i>Journal of Materials Research</i> , 2013, 28, 1820-1826.	2.6	28
41	Physics and model of strengthening by parallel stacking faults. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	81
42	Carbide characterization in a Nb-microalloyed advanced ultrahigh strength steel after quenching-partitioning-tempering process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 3373-3378.	5.6	58
43	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.	5.5	45