

Xiaodong Mao

List of Publications by Year in descending order

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17
papers

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1040056

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docs citations

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235
citing authors

#	ARTICLE	IF	CITATIONS
1	On the coherency of Y ₂ Ti ₂ O ₇ particles with austenitic matrix of oxide dispersion strengthened steel. <i>Acta Materialia</i> , 2015, 89, 141-152.	7.9	41
2	Evolution of ultrafine grained microstructure and nano-sized semi-coherent oxide particles in austenitic oxide dispersion strengthened steel. <i>Materials Characterization</i> , 2016, 117, 91-98.	4.4	33
3	Si-containing 9Cr ODS steel designed for high temperature application in lead-cooled fast reactor. <i>Journal of Nuclear Materials</i> , 2019, 519, 22-29.	2.7	33
4	Thermal stability of oxide particles in 12Cr ODS steel. <i>Journal of Nuclear Materials</i> , 2012, 428, 82-89.	2.7	26
5	Microstructure and Mechanical Properties of Ultrafine-Grained Austenitic Oxide Dispersion Strengthened Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 5334-5343.	2.2	18
6	Comparative study of \hat{I}^2 -Si ₃ N ₄ powders prepared by SHS sintered by spark plasma sintering and hot pressing. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2007, 14, 271-275.	0.2	14
7	A new method for fast statistical measurement of interfacial misfit strain around nano-scale semi-coherent particles. <i>RSC Advances</i> , 2017, 7, 28506-28512.	3.6	12
8	Precipitation behavior of oxide dispersion strengthened Alloy 617. <i>Journal of Materials Science</i> , 2017, 52, 13626-13635.	3.7	12
9	Crystallographic relationship of YTaO ₄ particles with matrix in Ta-containing 12Cr ODS steel. <i>Journal of Nuclear Materials</i> , 2015, 461, 329-335.	2.7	10
10	Microstructure evolution of the oxide dispersion strengthened CLAM steel during mechanical alloying process. <i>Fusion Engineering and Design</i> , 2016, 112, 460-467.	1.9	10
11	Effect of tempering time on fatigue crack growth behavior of CLAM steel. <i>Journal of Nuclear Materials</i> , 2018, 510, 437-445.	2.7	9
12	Enhanced thermal stability of the cellular structure through nano-scale oxide precipitation in 3D printed 316L stainless steel. <i>Fusion Engineering and Design</i> , 2021, 164, 112213.	1.9	8
13	Development of Gd-Si-O dispersed 316L stainless steel for improving neutron shielding performance. <i>Nuclear Materials and Energy</i> , 2020, 23, 100739.	1.3	7
14	Microstructure evolution and toughness degeneration of 9Cr martensitic steel after aging at 550 \hat{A} \hat{A} \hat{C} for 20000 \hat{A} h. <i>Journal of Materials Science</i> , 2018, 53, 4574-4581.	3.7	6
15	Effect of silicon on oxidation behavior of 9Cr-ODS steel at 650 \hat{A} \hat{C} . <i>Fusion Engineering and Design</i> , 2021, 167, 112384.	1.9	6
16	Characterization of nano-sized oxides in Fe \hat{A} 12Cr oxide-dispersion-strengthened ferritic steel using small-angle neutron scattering. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 249-252.	2.3	4
17	Evolution of Oxide Particles during Fabrication Processes of 12Cr ODS Steel. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1383, 41.	0.1	0