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Mechanisms of plastic deformation and fracture of austenitic chromium-nickel steel irradiated during 45 years in WWER-440

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Journal of Nuclear Materials, 2021, 549, 152911.

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#	Paper	IF	Citations
8	Mechanisms of Stress Corrosion Cracking of Irradiated Austenitic Chromium-Nickel Steels Used for WWER and PWR Vessel Internals. <i>Inorganic Materials: Applied Research</i> , <b>2021</b> , 12, 1701-1720	0.6	
7	Peculiarities of stress corrosion fracture of sensitized and neutron irradiated chromium-nickel austenitic steel. <i>Journal of Physics: Conference Series</i> , <b>2022</b> , 2155, 012011	0.3	0
6	Continuum modeling of dislocation channels in irradiated metals based on stochastic crystal plasticity. <i>International Journal of Plasticity</i> , <b>2022</b> , 151, 103211	7.6	0
5	On the link of the embrittlement mechanisms and microcrack nucleation and propagation properties for RPV steels. Part I. Materials, study strategy and deformation properties. <i>Engineering Fracture Mechanics</i> , <b>2022</b> , 108400	4.2	
4	Macro-Scale strain localization in highly irradiated stainless steel investigated using digital image correlation. <i>Acta Materialia</i> , <b>2022</b> , 231, 117858	8.4	1
3	General Meeting of the Division of Chemistry and Materials Science of the Russian Academy of Sciences. <i>Russian Chemical Bulletin</i> , <b>2022</b> , 71, 1313-1319	1.7	
2	Origin, parameters, and underlying deformation mechanisms of propagating deformation bands in irradiated 316L stainless steel. <b>2023</b> , 242, 118434		0
1	Simulations of the localized necking and Lüders band in irradiated metals by crystal plasticity. <b>2023</b> , 39,		0