

# Alexander A Sorokin

## List of Publications by Year in descending order

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8  
papers

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1683354  
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docs citations

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times ranked

35  
citing authors

#	ARTICLE	IF	CITATIONS
1	The radiation swelling effect on fracture properties and fracture mechanisms of irradiated austenitic steels. Part I. Ductility and fracture toughness. Journal of Nuclear Materials, 2016, 480, 52-68.	1.3	30
2	Physical and mechanical modelling of neutron irradiation effect on ductile fracture. Part 1. Prediction of fracture strain and fracture toughness of austenitic steels. Journal of Nuclear Materials, 2014, 452, 595-606.	1.3	18
3	Mechanisms of plastic deformation and fracture of austenitic chromium-nickel steel irradiated during 45 years in WWER-440. Journal of Nuclear Materials, 2021, 549, 152911.	1.3	15
4	Analysis of mechanisms inducing corrosion cracking of irradiated austenitic steels and development of a model for prediction of crack initiation. Engineering Failure Analysis, 2020, 107, 104235.	1.8	9
5	Physical and mechanical modeling of the neutron irradiation effect on ductile fracture. Part 2. Prediction of swelling effect on drastic decrease in strength. Journal of Nuclear Materials, 2014, 452, 607-613.	1.3	7
6	Correlation between grain boundary strength determined by impact test of miniature specimen and stress corrosion cracking resistance of irradiated austenitic steels used for the internals of WWER-type and PWR-type nuclear reactors. Engineering Failure Analysis, 2021, 127, 105544.	1.8	4
7	The radiation swelling effect on fracture properties and fracture mechanisms of irradiated austenitic steels. Part II. Fatigue crack growth rate. Journal of Nuclear Materials, 2016, 480, 15-24.	1.3	3
8	Physical and mechanical modeling and prediction of fracture strain and fracture toughness of irradiated austenitic steels. Engineering Failure Analysis, 2015, 47, 283-298.	1.8	2