

# Julie D Tucker

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

467  
citations

933264

10  
h-index

839398

18  
g-index

23  
all docs

23  
docs citations

23  
times ranked

494  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ab initio-based diffusion theory and tracer diffusion in Ni-Cr and Ni-Fe alloys. Journal of Nuclear Materials, 2010, 405, 216-234.	1.3	126
2	Assessment of thermal embrittlement in duplex stainless steels 2003 and 2205 for nuclear power applications. Acta Materialia, 2015, 87, 15-24.	3.8	115
3	An atom probe perspective on phase separation and precipitation in duplex stainless steels. Nanotechnology, 2016, 27, 254004.	1.3	43
4	Atomistic modeling of the order-disorder phase transformation in the Ni <sub>2</sub> Cr model alloy. Acta Materialia, 2014, 81, 258-271.	3.8	33
5	Defect mechanisms in BaTiO <sub>3</sub> Bi <sub>3</sub> MO <sub>3</sub> ceramics. Journal of the American Ceramic Society, 2018, 101, 2376-2390.	1.9	30
6	Effects of Corrosion in Supercritical CO <sub>2</sub> on the Microstructural Evolution in 800H Alloy. Oxidation of Metals, 2018, 90, 453-468.	1.0	26
7	Density Functional Theory Study of the Initial Stages of Cl-Induced Degradation of Ni-Cr <sub>2</sub> O <sub>3</sub> Passive Film. Journal of the Electrochemical Society, 2020, 167, 121508.	1.3	15
8	Ab initio study of phosphorus effect on vacancy-mediated process in nickel alloys - An insight into Ni <sub>2</sub> Cr ordering. Acta Materialia, 2019, 172, 30-43.	3.8	14
9	Phase Separation in Lean-Grade Duplex Stainless Steel 2101. Jom, 2015, 67, 2216-2222.	0.9	12
10	Thermal Embrittlement of a Lean Grade of Duplex Stainless Steel: Alloy 2003. Solid State Phenomena, 0, 172-174, 331-337.	0.3	11
11	Deformation twinning versus slip in Ni-based alloys, containing Pt <sub>2</sub> Mo-structured, Ni <sub>2</sub> Cr-typed precipitates. Materials and Design, 2021, 207, 109820.	3.3	11
12	Effect of stoichiometry on the evolution of thermally annealed long-range ordering in Ni-Cr alloys. Materialia, 2019, 8, 100453.	1.3	7
13	Quantifying Oxide Layer Growth at Low Pressures and Temperatures for Aluminum Alloy 6061. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3388-3398.	1.1	5
14	Solute-Vacancy Interactions in Nickel. Materials Research Society Symposia Proceedings, 2014, 1645, 1.	0.1	4
15	Role of Stoichiometry on Ordering in Ni-Cr Alloys. Materials Research Society Symposia Proceedings, 2015, 1809, 7-12.	0.1	3
16	Analysis and comparison of focused ion beam milling and vibratory polishing sample surface preparation methods for porosity study of U-Mo plate fuel for research and test reactors. Micron, 2018, 110, 57-66.	1.1	3
17	Bulk Diffusion of Cl through O Vacancies in Ni-Cr <sub>2</sub> O <sub>3</sub> : A Density Functional Theory Study. Journal of the Electrochemical Society, 2021, 168, 071503.	1.3	3
18	Effect of thermal aging on corrosion behavior of duplex stainless steels. SN Applied Sciences, 2022, 4, 1.	1.5	3

#	ARTICLE	IF	CITATIONS
19	Influence of Alloying on $\hat{\pm}\hat{\pm}\hat{E}^1$ Phase Separation in Duplex Stainless Steels. Minerals, Metals and Materials Series, 2019, , 2399-2408.	0.3	1
20	Influence of Alloying on $\hat{\pm}\hat{\pm}\hat{E}^1$ Phase Separation in Duplex Stainless Steels. Minerals, Metals and Materials Series, 2018, , 1183-1192.	0.3	0