

O S Melnychuk

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

732
citations

758635

12
h-index

1058022

14
g-index

15
all docs

15
docs citations

15
times ranked

333
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen and argon doping of niobium for superconducting radio frequency cavities: a pathway to highly efficient accelerating structures. Superconductor Science and Technology, 2013, 26, 102001.	1.8	201
2	Unprecedented quality factors at accelerating gradients up to 45 MVm ⁻¹ in niobium superconducting resonators via low temperature nitrogen infusion. Superconductor Science and Technology, 2017, 30, 094004.	1.8	109
3	Ultra-high quality factors in superconducting niobium cavities in ambient magnetic fields up to 190 mG. Applied Physics Letters, 2014, 105, .	1.5	88
4	Dependence of the residual surface resistance of superconducting radio frequency cavities on the cooling dynamics around T_c . Journal of Applied Physics, 2014, 115, .	1.1	69
5	Efficient expulsion of magnetic flux in superconducting radiofrequency cavities for high Q applications. Journal of Applied Physics, 2016, 119, .	1.1	57
6	Ultralow Surface Resistance via Vacuum Heat Treatment of Superconducting Radio-Frequency Cavities. Physical Review Applied, 2020, 13, .	1.5	43
7	Effect of interstitial impurities on the field dependent microwave surface resistance of niobium. Applied Physics Letters, 2016, 109, .	1.5	38
8	Industrialization of the nitrogen-doping preparation for SRF cavities for LCLS-II. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 883, 143-150.	0.7	29
9	Error analysis for intrinsic quality factor measurement in superconducting radio frequency resonators. Review of Scientific Instruments, 2014, 85, 124705.	0.6	22
10	Field-Enhanced Superconductivity in High-Frequency Niobium Accelerating Cavities. Physical Review Letters, 2018, 121, 224801.	2.9	20
11	Magnetic flux studies in horizontally cooled elliptical superconducting cavities. Journal of Applied Physics, 2015, 118, .	1.1	19
12	Frequency dependence of trapped flux sensitivity in SRF cavities. Applied Physics Letters, 2018, 112, .	1.5	16
13	Q-factor optimization for high-beta 650 MHz cavities for PIP-II. Journal of Applied Physics, 2021, 130, .	1.1	11
14	Field emission mitigation studies in the SLAC Linac Coherent Light Source II superconducting rf cavities via in situ plasma processing. Physical Review Accelerators and Beams, 2021, 24, .	0.6	4