O S Melnychuk

List of Publications by Year
in descending order

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14	732	758635 12	1058022 14
papers	citations	h-index	g-index

15	15	15	333
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Field emission mitigation studies in the SLAC Linac Coherent Light Source II superconducting rf cavities via inÂsitu plasma processing. Physical Review Accelerators and Beams, 2021, 24, .	0.6	4
2	Q-factor optimization for high-beta 650â€‰MHz cavities for PIP-II. Journal of Applied Physics, 2021, 130, .	1.1	11
3	Ultralow Surface Resistance via Vacuum Heat Treatment of Superconducting Radio-Frequency Cavities. Physical Review Applied, 2020, 13, .	1.5	43
4	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
5	Field-Enhanced Superconductivity in High-Frequency Niobium Accelerating Cavities. Physical Review Letters, 2018, 121, 224801.	2.9	20
6	Frequency dependence of trapped flux sensitivity in SRF cavities. Applied Physics Letters, 2018, 112, .	1.5	16
7	Unprecedented quality factors at accelerating gradients up to 45 MVm^{â^'1}in niobium superconducting resonators via low temperature nitrogen infusion. Superconductor Science and Technology, 2017, 30, 094004.	1.8	109
8	Effect of interstitial impurities on the field dependent microwave surface resistance of niobium. Applied Physics Letters, 2016, 109, .	1.5	38
9	Efficient expulsion of magnetic flux in superconducting radiofrequency cavities for high Q applications. Journal of Applied Physics, 2016, 119, .	1.1	57
10	Magnetic flux studies in horizontally cooled elliptical superconducting cavities. Journal of Applied Physics, 2015, 118, .	1.1	19
11	Error analysis for intrinsic quality factor measurement in superconducting radio frequency resonators. Review of Scientific Instruments, 2014, 85, 124705.	0.6	22
12	Ultra-high quality factors in superconducting niobium cavities in ambient magnetic fields up to 190 mG. Applied Physics Letters, 2014, 105, .	1.5	88
13	Dependence of the residual surface resistance of superconducting radio frequency cavities on the cooling dynamics around Tc. Journal of Applied Physics, 2014, 115, .	1.1	69
14	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