

Svetozar Popovic

List of Publications by Year in descending order

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papers

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13
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33
all docs

33
docs citations

33
times ranked

152
citing authors

#	ARTICLE	IF	CITATIONS
1	Excessive Balmer line broadening in microwave-induced discharges. Journal of Applied Physics, 2004, 95, 24-29.	2.5	27
2	Characteristics of an Arc-Seeded Microwave Plasma Torch. IEEE Transactions on Plasma Science, 2004, 32, 1734-1741.	1.3	23
3	Air plasma effect on dental disinfection. Physics of Plasmas, 2011, 18, .	1.9	21
4	Anomalous propagation of planar shock wave in weakly ionized gas. Physics of Plasmas, 1999, 6, 1448-1454.	1.9	11
5	Electron-impact dissociative ionization of ethylene. Physical Review A, 2006, 73, .	2.5	11
6	Characterization of a supersonic microwave discharge in Ar/H ₂ /Air mixtures. Journal of Applied Physics, 2008, 104, .	2.5	11
7	The boundary effects of the shock wave dispersion in discharges. Physics of Plasmas, 2008, 15, .	1.9	11
8	Plasma treatment of bulk niobium surface for superconducting rf cavities: Optimization of the experimental conditions on flat samples. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	9
9	Shock wave refraction enhancing conditions on an extended interface. Physics of Plasmas, 2013, 20, .	1.9	9
10	Measurements of population densities of metastable and resonant levels of argon using laser induced fluorescence. Journal of Applied Physics, 2015, 117, .	2.5	9
11	Plasma processing of large curved surfaces for superconducting rf cavity modification. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	9
12	Microwave air breakdown enhanced with metallic initiators. Applied Physics Letters, 2008, 92, .	3.3	7
13	Kinetic Description of Martian Atmospheric Entry Plasma. IEEE Transactions on Plasma Science, 2009, 37, 1646-1655.	1.3	7
14	Redirection of the spherical expanding shock wave on the interface with plasma. Physics of Plasmas, 2014, 21, 022105.	1.9	6
15	Etching mechanism of niobium in coaxial Ar/Cl ₂ radio frequency plasma. Journal of Applied Physics, 2015, 117, 113301.	2.5	6
16	Effect of self-bias on cylindrical capacitive discharge for processing of inner walls of tubular structures – Case of SRF cavities. AIP Advances, 2018, 8, .	1.3	6
17	Characterization of a CO ₂ /N ₂ /Ar supersonic flowing discharge. Journal of Applied Physics, 2009, 106, 083305.	2.5	5
18	High etching rates of bulk Nb in Ar/Cl ₂ microwave discharge. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 301-305.	2.1	5

#	ARTICLE	IF	CITATIONS
19	Apparatus and method for plasma processing of SRF cavities. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 818, 76-81.	1.6	5
20	Reversal of the asymmetry in a cylindrical coaxial capacitively coupled Ar/Cl ₂ plasma. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	2.1	4
21	Electron density measurements in a pulse-repetitive microwave discharge in air. Journal of Applied Physics, 2011, 110, .	2.5	3
22	Cryogenic rf test of the first SRF cavity etched in an rf Ar/Cl ₂ plasma. AIP Advances, 2017, 7, .	1.3	3
23	Characterization of the supersonic flowing microwave discharge using two dimensional plasma tomography. Journal of Applied Physics, 2013, 113, .	2.5	2
24	Argon metastable and resonant level densities in Ar and Ar/Cl ₂ discharges used for the processing of bulk niobium. Journal of Applied Physics, 2019, 126, .	2.5	2
25	Characterizing plasma with emission tomography” Feasibility study on synthetic and experimental data. Review of Scientific Instruments, 2020, 91, 053102.	1.3	2
26	Aerodynamic Effects in Weakly Ionized Gas: Phenomenology and Applications. AIP Conference Proceedings, 2006, , .	0.4	1
27	Studies of Flow in Ionized Gas: Historical Perspective, Contemporary Experiments, and Applications. AIP Conference Proceedings, 2007, , .	0.4	1
28	The refraction phenomena in the shock wave dispersion on plasma inhomogenities. , 2009, , .		1
29	Plasma modification of bulk niobium surface for SRF cavities. , 2010, , .		1
30	Resonant-frequency discharge in a multi-cell radio frequency cavity. Journal of Applied Physics, 2014, 116, .	2.5	1
31	Excited Atoms and Molecules in High Pressure Gas Discharges. AIP Conference Proceedings, 2003, , .	0.4	0
32	Electron density measurements in supersonic flowing discharges. , 2010, , .		0
33	Tomographic analysis of plasma sources with distorted cylindrical symmetry. , 2010, , .		0