

Svetlana Starikovskaia

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

886
citations

933447

10
h-index

996975

15
g-index

16
all docs

16
docs citations

16
times ranked

995
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2012 Plasma Roadmap. Journal Physics D: Applied Physics, 2012, 45, 253001.	2.8	511
2	Nanosecond surface dielectric barrier discharge in atmospheric pressure air: I. measurements and 2D modeling of morphology, propagation and hydrodynamic perturbations. Plasma Sources Science and Technology, 2017, 26, 125004.	3.1	62
3	Dynamics of plasma evolution in a nanosecond underwater discharge. Journal Physics D: Applied Physics, 2014, 47, 224017.	2.8	55
4	Fast gas heating of nanosecond pulsed surface dielectric barrier discharge: spatial distribution and fractional contribution from kinetics. Plasma Sources Science and Technology, 2018, 27, 124007.	3.1	49
5	Electric field induced second harmonic (E-FISH) generation for characterization of fast ionization wave discharges at moderate and low pressures. Plasma Sources Science and Technology, 2019, 28, 045004.	3.1	44
6	Electric field measurements in plasmas: how focusing strongly distorts the E-FISH signal. Plasma Sources Science and Technology, 2020, 29, 125002.	3.1	39
7	Relaxation of electronic excitation in nitrogen/oxygen and fuel/air mixtures: fast gas heating in plasma-assisted ignition and flame stabilization. Progress in Energy and Combustion Science, 2022, 91, 100928.	31.2	36
8	Non-equilibrium plasma for ignition and combustion enhancement. European Physical Journal D, 2021, 75, 1.	1.3	25
9	TALIF measurements of atomic nitrogen in the afterglow of a nanosecond capillary discharge. Plasma Sources Science and Technology, 2020, 29, 035017.	3.1	20
10	Effect of the electric field profile on the accuracy of E-FISH measurements in ionization waves. Plasma Sources Science and Technology, 2022, 31, 015010.	3.1	12
11	Fast gas heating and kinetics of electronically excited states in a nanosecond capillary discharge in CO ₂ . Plasma Sources Science and Technology, 2022, 31, 035010.	3.1	12
12	Spatially enhanced electric field induced second harmonic (SEEFISH) generation for measurements of electric field distributions in high-pressure plasmas. Plasma Sources Science and Technology, 2022, 31, 085002.	3.1	7
13	Phase imaging microscopy for the diagnostics of plasma-cell interaction. Applied Physics Letters, 2015, 106, .	3.3	6
14	Fine structure of streamer-to-filament transition in high-pressure nanosecond surface dielectric barrier discharge. Plasma Sources Science and Technology, 2022, 31, 045013.	3.1	5
15	On electric field measurements based on intensity ratio of $I_{1\text{st}}^{\text{sup}}/\hat{a}$ and $I_{2\text{nd}}^{\text{sup}}/I_{1\text{st}}^{\text{sup}}$ systems of nitrogen in discharges with high specific deposited energy. Plasma Sources Science and Technology, 2022, 31, 084002.	3.1	3
16	Editorial conclusions to the special issue on electrical discharges for aerospace applications. Journal Physics D: Applied Physics, 2020, 53, 410201.	2.8	0