

# Mikhail S Mokrov

## List of Publications by Year in descending order

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Version: 2024-02-01

14  
papers

278  
citations

840776

11  
h-index

1125743

13  
g-index

14  
all docs

14  
docs citations

14  
times ranked

234  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical mechanisms of self-organization and formation of current patterns in gas discharges of the Townsend and glow types. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	62
2	Dynamic contraction of the positive column of a self-sustained glow discharge in air flow. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	29
3	Thermal-chemical instability of weakly ionized plasma in a reactive flow. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 484001.	2.8	29
4	Self-sustained oscillations in a low-current discharge with a semiconductor serving as a cathode and ballast resistor: II. Theory. <i>Technical Physics</i> , 2006, 51, 185-197.	0.7	26
5	Dynamic contraction of the positive column of a self-sustained glow discharge in molecular gas. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	25
6	On the mechanism of the negative differential resistance of a Townsend discharge. <i>Plasma Sources Science and Technology</i> , 2008, 17, 035031.	3.1	21
7	Simulation of current filamentation in a dc-driven planar gas dischargeâ€“semiconductor system. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 425202.	2.8	21
8	A simple physical model of hexagonal patterns in a Townsend discharge with a semiconductor cathode. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 255204.	2.8	18
9	Development of a positive corona from a long grounded wire in a growing thunderstorm field. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 455202.	2.8	15
10	Monte Carlo method for finding the ionization and secondary emission coefficients and $I \sim V$ characteristic of a Townsend discharge in hydrogen. <i>Technical Physics</i> , 2008, 53, 436-444.	0.7	14
11	Model of blue jet formation and propagation in the nonuniform atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5821-5829.	2.4	11
12	3D simulation of hexagonal current pattern formation in a dc-driven gas discharge gap with a semiconductor cathode. <i>Plasma Sources Science and Technology</i> , 2018, 27, 065008.	3.1	6
13	Filling of a Plane Slit Volume with a Glow Discharge in a Transverse Magnetic Field and Its Effect on the Discharge Contraction. <i>Technical Physics</i> , 2018, 63, 806-816.	0.7	1
14	Thermal-Chemical Plasma Instability in a Reacting Flow. , 2020, , .		0