Galina Grigorian

List of Publications by Year
in descending order

33 papers	94 citations	1684188 5 h-index	1588992 8 g-index
33 all docs	33 docs citations	33 times ranked	64 citing authors

#	Article	IF	Citations
1	Balance of CO molecules in the plasma of a sealed-off CO laser. Plasma Physics Reports, 2004, 30, 788-796.	0.9	18
2	Formation and Excitation of CN Molecules in Heâ€“COâ€“N2â€“O2 Discharge Plasmas. Plasma Chemistry and Plasma Processing, 2011, 31, 337-352.	2.4	8
3	Vibrational distributions of CO molecules in a dc discharge in the presence of molecular oxygen admixture. Journal Physics D: Applied Physics, 2010, 43, 085201.	2.8	7
4	Determination of the coefficient of reflection of metastable argon atoms from the discharge tube wall. Plasma Physics Reports, 2015, 41, 434-440.	0.9	6
5	Ionization processes in flowing liquid nitrogen cooled discharges in He-CO, He-CO-O2mixtures. Journal Physics D: Applied Physics, 1992, 25, 1064-1072.	2.8	5
6	Effect of a small C3O2 additive on the vibrational distribution function of CO molecules in a low-temperature plasma. Plasma Physics Reports, 2006, 32, 246-253.	0.9	5
7	Vibrational relaxation of highly excited CO molecules on CO2molecules in the active medium of a CO laser. Quantum Electronics, 2008, 38, 222-226.	1.0	5
8	Vibrational to electronic energy transfer from CO to C2 molecules. Chemical Physics Letters, 2009, 469, 247-249.	2.6	5
9	Experimental and theoretical study of the radial density distribution of metastable atoms in a dc glow discharge in neon. Physics of Plasmas, 2017, 24, .	1.9	5
10	Preparation of carbonitride films in the active and afterglow phases of a glow discharge. Plasma Physics Reports, 2013, 39, 412-419.	0.9	4
11	Experimental and theoretical study of the radial distribution of Ar(³P₀) metastable atoms in a dc glow discharge in argon. Journal Physics D: Applied Physics, 2015, 48, 445201.	2.8	4
12	New mechanism for the influence of Xe on the concentration of CO2 molecules in self-sustained CO-laser discharges. Plasma Physics Reports, 2003, 29, 709-716.	0.9	3
13	Effect of stimulated emission on the distribution of CO molecules over vibrational levels. Quantum Electronics, 2008, 38, 940-944.	1.0	3
14	Oxygen dissociation â€“ Influence of Xe metastable. Chemical Physics, 2009, 359, 31-33.	1.9	3
15	Heterogeneous vibrational relaxation of carbon monoxide. Physical Chemistry Chemical Physics, 2013, 15, 6215.	2.8	2
16	Vibrational and chemical kinetics in plasma of CO containing gases. IOP Conference Series: Materials Science and Engineering, 2014, 62, 012001.	0.6	2
17	Radiative transitions in quasi-molecules Hg(63P1â€“ 61S0) + Xe. The influence of buffer gas atom density on spectral line shape. Journal of Physics: Conference Series, 2017, 810, 012028.	0.4	2
18	The vibrational relaxation of CO2 isolated in solid argon. Low Temperature Physics, 2003, 29, 866-869.	0.6	1

#	Article	IF	Citations
19	Plasma-chemical processes in the active medium of a CO laser. Russian Journal of Physical Chemistry B, 2015, 9, 838-842.	1.3	1
20	Dissociation and heterogeneous recombination of CO molecules in sealed-off discharge plasmas contained in tubes of various materials. Journal Physics D: Applied Physics, 2015, 48, 105201.	2.8	1
21	Heterogeneous relaxation of vibrationally excited CO(X 1Î£, v= 4, 5) molecules. Russian Journal of Physical Chemistry B, 2017, 11, 20-23.	1.3	1
22	Plasma-chemical processes with the participation of nitrogen in the active medium of a sealed-off CO laser. Russian Journal of Physical Chemistry B, 2017, 11, 89-94.	1.3	1
23	Quasimolecular emission near the Xe(5p56s1,3P1â€“ 5p6 1S0) and Kr (4p55s1,3P1â€“ 4p6 1S0) resonance lines induced by collisions with He atoms. Journal of Physics: Conference Series, 2017, 810, 012029.	0.4	1
24	Study of the Characteristics of the Positive Column of a Direct Current Glow Discharge in Xenon. Plasma Physics Reports, 2021, 47, 588-597.	0.9	1
25	Influence of plasma-chemistry products on CO vibrational distribution in a carbon monoxide laser medium. , 2001, 4184, 238.		0
26	The influence of laser oscillations on the CO vibrational distribution function. Proceedings of SPIE, 2007, , .	0.8	0
27	Peculiarities of the C₂d³Îâ†'a³Î band system intensities in gas discharges through CO-contained mixtures. Journal of Physics: Conference Series, 2012, 397, 012047.	0.4	0
28	Estimation of rate constant for VE excitation of the Ð¡2(D1Î£) state in ÐÐµ-Ð¡Ðž-Ðž2discharge plasma. , 2013, , .		0
29	Vibrational and chemical kinetics of processes with the participation of CO and C2 molecules in the active medium of a CO laser. Russian Journal of Physical Chemistry B, 2015, 9, 540-542.	1.3	0
30	Influence of nitrogen on thermodynamic properties and plasma composition in discharge tube of CO-laser. Archives of Thermodynamics, 2016, 37, 31-43.	1.0	0
31	Influence of a Nitrogen Admixture on the Value and Radial Profile of the Metastable Argon Atom Density in a DC Glow Discharge in Argon. Plasma Physics Reports, 2018, 44, 1154-1163.	0.9	0
32	Influence of nitrogen on CO-laser characteristics. Photonics Letters of Poland, 2017, 9, 69.	0.4	0
33	In Situ Analyses of Surface-Layer Composition of CxNy Thin Films Using Methods Based on Penning Ionization Processesâ€"Introductory Investigations. Materials, 2021, 14, 7812.	2.9	0