

Andrei V Pipa

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

921
citations

430754

18
h-index

454834

30
g-index

40
all docs

40
docs citations

40
times ranked

961
citing authors

#	ARTICLE	IF	CITATIONS
1	The simplest equivalent circuit of a pulsed dielectric barrier discharge and the determination of the gas gap charge transfer. Review of Scientific Instruments, 2012, 83, 115112.	0.6	90
2	Experimental determination of dielectric barrier discharge capacitance. Review of Scientific Instruments, 2012, 83, 075111.	0.6	80
3	The Equivalent Circuit Approach for the Electrical Diagnostics of Dielectric Barrier Discharges: The Classical Theory and Recent Developments. Atoms, 2019, 7, 14.	0.7	69
4	Beer's Lawâ€”Why Integrated Absorbance Depends Linearly on Concentration. ChemPhysChem, 2019, 20, 2748-2753.	1.0	54
5	On the spectroscopic detection of neutral species in a low-pressure plasma containing boron and hydrogen. Plasma Sources Science and Technology, 2003, 12, 576-589.	1.3	51
6	Controlling the NO production of an atmospheric pressure plasma jet. Journal Physics D: Applied Physics, 2012, 45, 085201.	1.3	47
7	Absolute production rate measurements of nitric oxide by an atmospheric pressure plasma jet (APPJ). Journal Physics D: Applied Physics, 2008, 41, 194011.	1.3	40
8	Overview spectra and axial distribution of spectral line intensities in a high-current vacuum arc with CuCr electrodes. Journal of Applied Physics, 2015, 118, .	1.1	38
9	The influence of target erosion on the mass spectra of clusters formed in the planar DC magnetron sputtering source. Surface and Coatings Technology, 2012, 213, 41-47.	2.2	34
10	Account of the fine structure of hydrogen atom levels in the effective emission cross sections of Balmer lines excited by electron impact in gases and plasma. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT 10 Overlock 10 Tf 50 37	1.3	27
11	On determination of the degree of dissociation of hydrogen in non-equilibrium plasmas by means of emission spectroscopy: I. The collision-radiative model and numerical experiments. Plasma Sources Science and Technology, 2006, 15, 135-146.	1.3	27
12	On determination of the degree of dissociation of hydrogen in non-equilibrium plasmas by means of emission spectroscopy: II. Experimental verification. Plasma Sources Science and Technology, 2006, 15, 147-155.	1.3	27
13	Velocity distribution of mass-selected nano-size cluster ions. Plasma Sources Science and Technology, 2013, 22, 045011.	1.3	27
14	Analysis of the Mid-Infrared Spectrum of the Exhaust Gas From an Atmospheric Pressure Plasma Jet (APPJ) Working With an Argonâ€”Air Mixture. IEEE Transactions on Plasma Science, 2009, 37, 1000-1003.	0.6	25
15	Fenton chemistry promoted by sub-microsecond pulsed corona plasmas for organic micropollutant degradation in water. Electrochimica Acta, 2017, 245, 539-548.	2.6	23
16	Determination of the number densities of argon metastables in argon-hydrogen plasma by absorption and self-absorption methods. Plasma Sources Science and Technology, 2006, 15, 391-395.	1.3	22
17	Resonance broadening of argon lines in a micro-scaled atmospheric pressure plasma jet (argon 1/4APPJ). Applied Physics Letters, 2015, 106, .	1.5	20
18	Dependence of dissipated power on applied voltage for surface barrier discharge from simplest equivalent circuit. Plasma Sources Science and Technology, 2020, 29, 12LT01.	1.3	20

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19	Observation of microwave volume plasma ignition in ambient air. Plasma Sources Science and Technology, 2012, 21, 035009.	1.3	18
20	Influence of dielectric thickness and electrode structure on the ion wind generation by micro fabricated plasma actuators. Journal Physics D: Applied Physics, 2020, 53, 405201.	1.3	18
21	On the Role of Capacitance Determination Accuracy for the Electrical Characterization of Pulsed Driven Dielectric Barrier Discharges. Contributions To Plasma Physics, 2013, 53, 469-480.	0.5	17
22	Cathode fall voltage of TIG arcs from a non-equilibrium arc model. Welding in the World, Le Soudage Dans Le Monde, 2015, 59, 127-135.	1.3	16
23	Spectroscopic study of H ₂ microwave plasmas with small admixtures of CH ₄ and B ₂ H ₆ used for doped diamond deposition. Plasma Sources Science and Technology, 2014, 23, 045015.	1.3	14
24	Optimization of a Dielectric Barrier Discharge for Pulsed UV Emission of XeCl at 308 nm. Contributions To Plasma Physics, 2011, 51, 850-862.	0.5	13
25	A Miniaturized XeCl Dielectric Barrier Discharge as a Source of Short Lived, Fast Decaying UV Radiation. Contributions To Plasma Physics, 2010, 50, 182-192.	0.5	12
26	PVT growth of GaN bulk crystals. Journal of Crystal Growth, 2011, 318, 406-410.	0.7	12
27	Spectroscopic study of plasma nitrocarburizing processes with an industrial-scale carbon active screen. Plasma Sources Science and Technology, 2020, 29, 035001.	1.3	12
28	On the Reaction Kinetics of Chemically Active Molecular Microwave Plasmas. Contributions To Plasma Physics, 2005, 45, 358-368.	0.5	11
29	Change of electrical conductivity of Ar welding arc under resonant absorption of laser radiation. Journal Physics D: Applied Physics, 2015, 48, 095502.	1.3	11
30	Influence of the arc plasma parameters on the weld pool profile in TIG welding. Journal of Physics: Conference Series, 2014, 550, 012004.	0.3	9
31	Operational limit of a planar DC magnetron cluster source due to target erosion. Nuclear Instruments & Methods in Physics Research B, 2013, 316, 6-12.	0.6	6
32	Effects of Plasma-Chemical Composition on AISI 316L Surface Modification by Active Screen Nitrocarburizing Using Gaseous and Solid Carbon Precursors. Metals, 2021, 11, 1411.	1.0	6
33	Icing Mitigation by MEMS-Fabricated Surface Dielectric Barrier Discharge. Applied Sciences (Switzerland), 2021, 11, 11106.	1.3	6
34	Plasma enhanced growth of GaN single crystalline layers from Ga vapour. Crystal Research and Technology, 2013, 48, 186-192.	0.6	5
35	Ultraviolet (UV) emissions from a unipolar submicrosecond pulsed dielectric barrier discharge (DBD) in He-Air mixtures. Journal of Physics: Conference Series, 2007, 86, 012014.	0.3	4
36	Effect of the admixture of N ₂ to low pressure, low temperature H ₂ -CH ₄ -CO ₂ microwave plasmas used for large area deposition of nanocrystalline diamond films. Journal Physics D: Applied Physics, 2020, 53, 455204.	1.3	4

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37	Determining a Line Strength in the $\hat{1}\frac{1}{2}₃$ Band of the Silyl Radical Using Quantum Cascade Laser Absorption Spectroscopy. Journal of Physical Chemistry A, 2019, 123, 10030-10039.	1.1	3
38	Design and optical study of a microwave plasma torch in nitrogen used for the evaporation of aluminium wires. Contributions To Plasma Physics, 2018, 58, 353-366.	0.5	1
39	Absolute measurements of nitric oxide production rate in atmospheric plasma jet. , 2007, , .		0