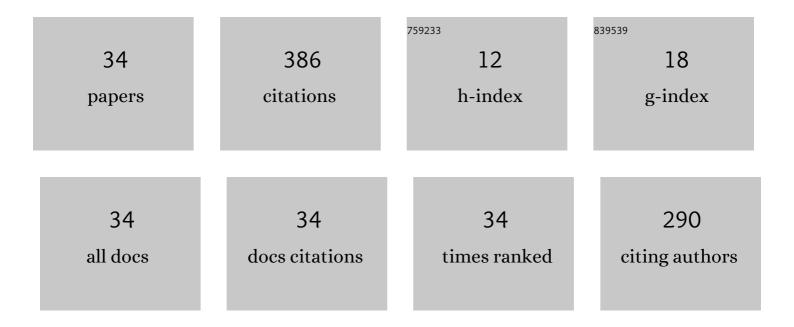
Roland Friedl

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Impact of the photoelectric threshold sensitivity on the work function determination—Revealing ultra-low work functions of caesiated surfaces. AIP Advances, 2022, 12, .	1.3	4
2	Status and future development of Heating and Current Drive for the EU DEMO. Fusion Engineering and Design, 2022, 180, 113159.	1.9	22
3	Absolute radiometric calibration of a VUV spectrometer in the wavelength range 46–300Ânm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 259, 107427.	2.3	6
4	Work function behavior of a biased C12A7 electride in low temperature hydrogen plasmas. AIP Conference Proceedings, 2021, , .	0.4	2
5	Work function performance of a C12A7 electride surface exposed to low pressure low temperature hydrogen plasmas. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	6
6	NIBS 2020 reference sheets. AIP Conference Proceedings, 2021, , .	0.4	0
7	Spatio-temporal structure and emission of a large plasmoid in atmosphere. Journal Physics D: Applied Physics, 2021, 54, 095205.	2.8	4
8	Negative Hydrogen and Deuterium Ion Density in a Low Pressure Plasma in Front of a Converter Surface at Different Work Functions. Plasma, 2021, 4, 94-107.	1.8	7
9	The role of photon self-absorption on the H (n = 2) density determination by means of VUV emission spectroscopy and TDLAS in low pressure plasmas. Plasma Sources Science and Technology, 2021, 30, 065013.	3.1	4
10	Emission spectroscopy of negative hydrogen ion sources: From VUV to IR. Review of Scientific Instruments, 2021, 92, 123510.	1.3	6
11	Application of a Langmuir probe AC technique for reliable access to the low energy range of electron energy distribution functions in low pressure plasmas. Journal of Applied Physics, 2020, 127, 113302.	2.5	5
12	Dissociative recombination and its impact on the line profile of the hydrogen Balmer series. Plasma Sources Science and Technology, 2020, 29, 015014.	3.1	2
13	Correlation of Cs flux and work function of a converter surface during long plasma exposure for negative ion sources in view of ITER. Plasma Research Express, 2020, 2, 035009.	0.9	28
14	Effect of a low pressure low temperature hydrogen plasma on the work function of europium. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, 063002.	2.1	1
15	Technology developments for a beam source of an NNBI system for DEMO. Fusion Engineering and Design, 2018, 136, 340-344.	1.9	18
16	Laboratory experiment for the development of a laser neutralizer in view of DEMO NNBI. AIP Conference Proceedings, 2018, , .	0.4	2
17	Work function of Cs-free materials for enhanced Hâ^' surface production. AIP Conference Proceedings, 2018, , .	0.4	10
18	Influence of H2 and D2 plasmas on the work function of caesiated materials. Journal of Applied Physics, 2017, 122, .	2.5	26

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#	Article	IF	CITATIONS
19	Efficiency of Cs-free materials for negative ion production in H2 and D2 plasmas. AIP Conference Proceedings, 2017, , .	0.4	3
20	Investigations on Cs-free alternatives for negative ion formation in a low pressure hydrogen discharge at ion source relevant parameters. Plasma Physics and Controlled Fusion, 2017, 59, 075008.	2.1	30
21	Towards powerful negative ion beams at the test facility ELISE for the ITER and DEMO NBI systems. Nuclear Fusion, 2017, 57, 116007.	3.5	39
22	Simultaneous measurements of work function and H‒ density including caesiation of a converter surface. AIP Conference Proceedings, 2017, , .	0.4	9
23	Enhancing the accuracy of the Fowler method for monitoring non-constant work functions. Review of Scientific Instruments, 2016, 87, 043901.	1.3	14
24	Temperature dependence of the work function of caesiated materials under ion source conditions. AIP Conference Proceedings, 2015, , .	0.4	12
25	Correlation of size, velocity, and autonomous phase of a plasmoid in atmosphere with the dissipated energy. Journal of Applied Physics, 2015, 117, .	2.5	7
26	A collisional radiative model for caesium and its application to an RF source for negative hydrogen ions. AIP Conference Proceedings, 2015, , .	0.4	0
27	Fundamental studies on the Cs dynamics under ion source conditions. Review of Scientific Instruments, 2014, 85, 02B109.	1.3	15
28	A collisional radiative model for low-pressure hydrogen–caesium plasmas and its application to an RF source for negative hydrogen ions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 149, 360-371.	2.3	10
29	Initial Phase of a Large Atmospheric Plasmoid Generated Above a Water Surface. IEEE Transactions on Plasma Science, 2014, 42, 2624-2625.	1.3	7
30	Generation of an atmospheric plasmoid from a water discharge: An analysis of the dissipated energy. Journal of Applied Physics, 2013, 114, .	2.5	17
31	Influence of cesium on the plasma parameters in front of the plasma grid in sources for negative hydrogen ions. AIP Conference Proceedings, 2013, , .	0.4	14
32	Workshop on performance variations in Hâ^' ion sources 2012: PV Hâ^'12. AIP Conference Proceedings, 2013, , .	0.4	2
33	Controllable evaporation of cesium from a dispenser oven. Review of Scientific Instruments, 2012, 83, 123305.	1.3	31
34	Spectral intensity of the N ₂ emission in argon low-pressure arc discharges for lighting purposes. New Journal of Physics, 2012, 14, 043016.	2.9	23