Peeter Paris

List of Publications by Year
in descending order

53 papers	1,295 citations	361413 20 h-index	361022 35 g-index
53 all docs	53 docs citations	53 times ranked	1365 citing authors

#	Article	IF	Citations
1	Intensity ratio of spectral bands of nitrogen as a measure of electric field strength in plasmas. Journal Physics D: Applied Physics, 2005, 38, 3894-3899.	2.8	197
2	Development of laser-based techniques for<i>in situ</i>characterization of the first wall in ITER and future fusion devices. Nuclear Fusion, 2013, 53, 093002.	3.5	99
3	Plasmaâ€“wall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification. Nuclear Fusion, 2017, 57, 116041.	3.5	75
4	Measurement of collisional quenching rate of nitrogen states N₂(Câ€‰³Î_u, v = 0) and. Journal Physics D: Applied Physics, 2010, 43, 385202.	2.8	71
5	Overview of the JET results with the ITER-like wall. Nuclear Fusion, 2013, 53, 104002.	3.5	70
6	Measurement of intensity ratio of nitrogen bands as a function of field strength. Journal Physics D: Applied Physics, 2004, 37, 1179-1184.	2.8	57
7	Overview of the JET results. Nuclear Fusion, 2015, 55, 104001.	3.5	50
8	The influence of the tube diameter on the properties of an atmospheric pressure He micro-plasma jet. Journal Physics D: Applied Physics, 2014, 47, 415202.	2.8	38
9	Development of ITER relevant laser techniques for deposited layer characterisation and tritium inventory. Journal of Nuclear Materials, 2013, 438, S936-S939.	2.7	35
10	Applicability of LIBS for in situ monitoring of deposition and retention on the ITER-like wall of JET â€“ Comparison to SIMS. Journal of Nuclear Materials, 2015, 463, 931-935.	2.7	34
11	Determination of deuterium depth profiles in fusion-relevant wall materials by nanosecond LIBS. Nuclear Materials and Energy, 2017, 12, 611-616.	1.3	33
12	Reply to comments on â€˜Intensity ratio of spectral bands of nitrogen as a measure of electric field strength in plasmasâ€™. Journal Physics D: Applied Physics, 2006, 39, 2636-2639.	2.8	31
13	Monitoring of tritium and impurities in the first wall of fusion devices using a LIBS based diagnostic. Nuclear Fusion, 2021, 61, 125001.	3.5	31
14	Development of laser induced breakdown spectroscopy for studying erosion, deposition, and fuel retention in ASDEX Upgrade. Fusion Engineering and Design, 2015, 98-99, 1349-1352.	1.9	28
15	Determination of elemental depth profiles by multi-spot averaging technique of LIBS spectra. Fusion Engineering and Design, 2011, 86, 1125-1128.	1.9	27
16	Effective ionization coefficient of C5 perfluorinated ketone and its mixtures with air. Journal Physics D: Applied Physics, 2018, 51, 135205.	2.8	26
17	LIBS analysis of tungsten coatings exposed to Magnum PSI ELM-like plasma. Journal of Nuclear Materials, 2015, 463, 919-922.	2.7	25
18	The effect of dielectric tube diameter on the propagation velocity of ionization waves in a He atmospheric-pressure micro-plasma jet. Journal Physics D: Applied Physics, 2016, 49, 195201.	2.8	25

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19	The multi-avalanche nature of streamer formation in inhomogeneous fields. Journal Physics D: Applied Physics, 1994, 27, 970-978.	2.8	21
20	Development of laser-induced breakdown spectroscopy for analyzing deposited layers in ITER. Physica Scripta, 2014, T159, 014067.	2.5	21
21	Discrimination of moist oil shale and limestone using laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 107, 61-66.	2.9	20
22	LIBS detection of erosion/deposition and deuterium retention resulting from exposure to Pilot-PSI plasmas. Journal of Nuclear Materials, 2017, 489, 129-136.	2.7	19
23	Detection of deuterium retention by LIBS at different background pressures. Physica Scripta, 2017, T170, 014003.	2.5	18
24	Comparison of LIBS results on ITER-relevant samples obtained by nanosecond and picosecond lasers. Nuclear Materials and Energy, 2019, 18, 1-5.	1.3	16
25	LIBS for tungsten diagnostics in vacuum: Selection of analytes. Journal of Nuclear Materials, 2015, 463, 923-926.	2.7	15
26	Quantification of H/D content in Be/W mixtures coatings by CF-LIBS. Physica Scripta, 2020, 2020, 014073.	2.5	15
27	Ozone generation efficiency as a function of electric field strength in air. Journal Physics D: Applied Physics, 2014, 47, 335205.	2.8	14
28	On the formation of negative coronas. Journal Physics D: Applied Physics, 1993, 26, 231-236.	2.8	12
29	LIBS study of ITER relevant tungstenâ€“oxygen coatings exposed to deuterium plasma in Magnum-PSI. Journal of Nuclear Materials, 2021, 544, 152660.	2.7	12
30	Triggering of Negative Corona. European Physical Journal Special Topics, 1997, 07, C4-259-C4-270.	0.2	11
31	Laser ablation of thin tungsten layers deposited on carbon substrate. Fusion Engineering and Design, 2009, 84, 1465-1467.	1.9	11
32	CF-LIBS quantification and depth profile analysis of Be coating mixed layers. Nuclear Materials and Energy, 2021, 27, 100990.	1.3	11
33	Negative coronas: Low current mode â€“ pulse mode transition. European Physical Journal D, 1999, 49, 217-224.	0.4	9
34	Development of Ionization waves in an Atmosphericâ€Pressure Microâ€Plasma Jet. Contributions To Plasma Physics, 2016, 56, 134-145.	1.1	9
35	Dependence of LIBS spectra on the surface composition and morphology of W/Al coatings. Fusion Engineering and Design, 2017, 121, 296-300.	1.9	9
36	Loading of deuterium and helium by Pilot-PSI plasma and their detection by in-situ LIBS. Nuclear Materials and Energy, 2017, 12, 694-698.	1.3	9

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37	In-situ LIBS and NRA deuterium retention study in porous W-O and compact W coatings loaded by Magnum-PSI. Fusion Engineering and Design, 2021, 168, 112403.	1.9	9
38	Laser induced breakdown spectroscopy for hydrogen detection in molybdenum at atmospheric pressure mixtures of argon and nitrogen. Fusion Engineering and Design, 2022, 179, 113131.	1.9	9
39	Experimental determination of first Townsend ionization coefficient in mixtures of He and N2. Journal Physics D: Applied Physics, 2021, 54, 325202.	2.8	8
40	Erosion of marker coatings exposed to Pilot-PSI plasma. Journal of Nuclear Materials, 2013, 438, S754-S757.	2.7	7
41	Laser-based diagnostics applications for plasma-surface interaction studies. Journal of Instrumentation, 2013, 8, C11011-C11011.	1.2	7
42	Feasibility of arc-discharge and plasma-sputtering methods in cleaning plasma-facing and diagnostics components of fusion reactors. Fusion Engineering and Design, 2015, 96-97, 101-106.	1.9	7
43	Ozone production rate as a function of electric field strength in oxygen. Journal Physics D: Applied Physics, 2012, 45, 205201.	2.8	6
44	Micro-NRA and micro-3HIXE with 3 He microbeam on samples exposed in ASDEX Upgrade and Pilot-PSI machines. Nuclear Instruments & Methods in Physics Research B, 2017, 404, 179-184.	1.4	5
45	DETERMINATION OF THE CALORIFIC VALUE AND MOISTURE CONTENT OF CRUSHED OIL SHALE BY LIBS. Oil Shale, 2018, 35, 339.	1.0	5
46	Determination of Heating Value of Estonian Oil Shale by Laser-Induced Breakdown Spectroscopy. Journal of Spectroscopy, 2018, 2018, 1-10.	1.3	5
47	Study of corona discharge aerosol with an electrical aerosol spectrometer. Journal of Aerosol Science, 1998, 29, S845-S846.	3.8	4
48	LIBS applicability for investigation of re-deposition and fuel retention in tungsten coatings exposed to pure and nitrogen-mixed deuterium plasmas of Magnum-PSI. Physica Scripta, 2021, 96, 114010.	2.5	4
49	Experimental determination of the first Townsend ionization coefficient in mixtures of Ar and N2. Journal Physics D: Applied Physics, 2021, 54, 465201.	2.8	4
50	Laser-induced current in air gap at atmospheric pressure. Journal Physics D: Applied Physics, 2005, 38, 3900-3906.	2.8	3
51	Influence of He/D2 plasma fluxes on the morphology and crystallinity of tungsten coatings. Physica Scripta, 2014, 89, 044009.	2.5	3
52	Application of Yâ€"ZrO2 microtubes as dielectric barrier material in a He atmospheric pressure micro-plasma jet. SN Applied Sciences, 2021, 3, 1.	2.9	3
53	Laser ablation in air: nature of current pulses. Journal Physics D: Applied Physics, 2008, 41, 055201.	2.8	2