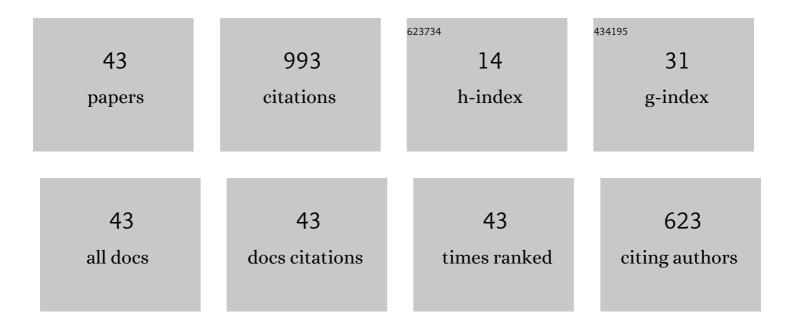
## Arnaud Bultel

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Interface detection by picosecond Laser-Induced Breakdown Spectroscopy (LIBS): Application to a physical vapor deposited tungsten layer on a copper-chromium-zirconium substrate. Optics and Laser Technology, 2022, 150, 107913.	4.6	5
2	Absorption of a nanosecond laser pulse by a picosecond laser-induced preformed aluminum plasma. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 175, 106011.	2.9	3
3	Low-energy electron impact dissociative recombination and vibrational transitions of N2+. Journal of Applied Physics, 2021, 129, .	2.5	13
4	Double pulse laser-induced plasmas on W and Al by ps-LIBS: Focus on the plasma-second pulse interaction. Fusion Engineering and Design, 2021, 168, 112364.	1.9	3
5	Electron dissociative attachement to ArH+, HD+, N2 + and CO2. Journal of Physics: Conference Series, 2020, 1412, 172005.	0.4	0
6	Plasma density determination by using hydrogen Balmer Hα spectral line with improved accuracy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 166, 105821.	2.9	10
7	Vibrational and electronic collisional-radiative model in CO2-N2-Ar mixtures for Mars entry problems. Physics of Plasmas, 2019, 26, .	1.9	13
8	Towards ps-LIBS tritium measurements in W/Al materials. Fusion Engineering and Design, 2019, 146, 1971-1974.	1.9	8
9	Tungsten coatings repair: An approach to increase the lifetime of plasma facing components. Fusion Engineering and Design, 2019, 146, 800-804.	1.9	8
10	Thermochemical Non-Equilibrium in Thermal Plasmas. Atoms, 2019, 7, 5.	1.6	1
11	State-to-state modeling of non equilibrium low-temperature atomic plasmas. AIP Conference Proceedings, 2017, , .	0.4	0
12	State-to-state modeling of ultrashort laser-induced plasmas. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 127, 7-19.	2.9	5
13	Non-uniqueness of the multi-temperature law of mass action. Application to 2T plasma composition calculation by means of a collisional-radiative model. European Physical Journal D, 2017, 71, 1.	1.3	6
14	Picosecond LIBS diagnostics for Tokamak <i>in situ</i> plasma facing materials chemical analysis. Physica Scripta, 2016, T167, 014016.	2.5	13
15	Dissociative recombination in reactive flows related to planetary atmospheric entries. EPJ Web of Conferences, 2015, 84, 06005.	0.3	1
16	Dissociative recombination and vibrational excitation of CO <sup>+</sup> : model calculations and comparison with experiment. Plasma Sources Science and Technology, 2015, 24, 035005.	3.1	14
17	Dynamics of a femtosecond/picosecond laser-induced aluminum plasma out of thermodynamic equilibrium in a nitrogen background gas. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 103-104, 112-123.	2.9	19
18	Achievement of local thermodynamic equilibrium for ns laser-induced plasmas on aluminium sample at different wavelengths. Journal of Physics: Conference Series, 2014, 550, 012048.	0.4	0

Arnaud Bultel

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19	Vibrational and electronic collisional-radiative model in air for Earth entry problems. Physics of Plasmas, 2014, 21, 123512.	1.9	25
20	Theoretical study of the formation mechanism of laser-induced aluminum plasmas using Nd:YAG fundamental, second or third harmonics. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 94-95, 63-70.	2.9	9
21	Collisional-Radiative Modeling Behind Shock Waves in Nitrogen. Journal of Thermophysics and Heat Transfer, 2014, 28, 608-622.	1.6	24
22	Temporal description of aluminum laser-induced plasmas by means of a collisional-radiative model. Journal of Physics: Conference Series, 2014, 511, 012062.	0.4	0
23	Detailed kinetic of CO <sub>2</sub> dissociation and C ionization: application to atmospheric Martian entries. Journal of Physics: Conference Series, 2014, 511, 012053.	0.4	6
24	Collisional-Radiative modeling of the transient excitation of a carbon atoms beam crossing a tokamak plasma edge. Journal of Physics: Conference Series, 2014, 511, 012045.	0.4	1
25	Reduction of State-to-State to Macroscopic Models for Hypersonics. The Open Plasma Physics Journal, 2014, 7, 60-75.	0.7	9
26	Elaboration of collisional–radiative models for flows related to planetary entries into the Earth and Mars atmospheres. Plasma Sources Science and Technology, 2013, 22, 025008.	3.1	51
27	Global rate coefficients for ionization and recombination of carbon, nitrogen, oxygen, and argon. Physics of Plasmas, 2012, 19, .	1.9	44
28	Electronic Excitation of Atoms and Molecules for the FIRE II Flight Experiment. Journal of Thermophysics and Heat Transfer, 2011, 25, 361-374.	1.6	91
29	CoRaM-Al: a Collisional-Radiative model dedicated to aluminum laser-induced plasma. , 2011, , .		0
30	Elaboration of a collisional-radiative model for CO2-N2-Ar plasma flows: Application to atmospheric Martian entries. , 2011, , .		3
31	Modeling of thermal and chemical non-equilibrium in a laser-induced aluminum plasma by means of a Collisional-Radiative model. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 830-841.	2.9	39
32	Fire II Flight Experiment Analysis by Means of a Collisional-Radiative Model. Journal of Thermophysics and Heat Transfer, 2009, 23, 236-248.	1.6	151
33	The Critical Temperature of Aluminum. International Journal of Thermophysics, 2009, 30, 1853-1863.	2.1	64
34	Spectroscopic measurements of nonequilibrium CO2 plasma in RF torch. Chemical Physics, 2008, 354, 16-26.	1.9	51
35	Numerical Simulation of Stagnation Line Nonequilibrium Airflows for Reentry Applications. Journal of Thermophysics and Heat Transfer, 2008, 22, 168-177.	1.6	13
36	Analysis of the FIRE II Flight Experiment by Means of a Collisional Radiative Model. , 2008, , .		7

Arnaud Bultel

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37	Experimental Study of a Double Arc Nitrogen Plasma: Static and Dynamic Behavior. IEEE Transactions on Plasma Science, 2007, 35, 498-508.	1.3	12
38	Collisional-radiative model in air for earth re-entry problems. Physics of Plasmas, 2006, 13, 043502.	1.9	116
39	Role of molecular ions in plasmas of atmospheric and energetic interest. Journal of Physics: Conference Series, 2005, 4, 205-210.	0.4	1
40	Dynamical analysis of a helium glow discharge. I A model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 323, 267-277.	2.1	2
41	The Hornbeck-Molnar process in argon. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 111-124.	1.5	5
42	Influence ofAr2+in an argon collisional-radiative model. Physical Review E, 2002, 65, 046406.	2.1	127
43	Measurement of the ground state and metastable atomic nitrogen number density in a low-pressure plasma jet. Plasma Sources Science and Technology, 1995, 4, 597-605.	3.1	20