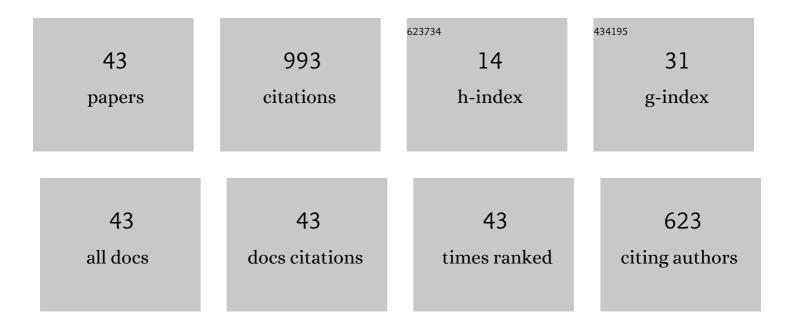
Arnaud Bultel

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 ⁺ : 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 |

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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 ₂ 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 |

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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 |