

# Tomás Delgado

## List of Publications by Year in descending order

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18  
papers

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citations

759233

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	The crucial role of molecular emissions on LIBS differentiation of organic compounds of interest in astrobiology under a Mars simulated atmosphere. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 192, 106413.	2.9	6
2	Investigation on the origin of molecular emissions in laser-induced breakdown spectroscopy under Mars-like atmospheric conditions of isotope-labeled compounds of interest in astrobiology. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 179, 106114.	2.9	10
3	Detectability and discrimination of biomarker organic precursors in a low pressure CO <sub>2</sub> atmosphere by LIBS. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1947-1955.	3.0	11
4	Considerations on formation mechanisms of emitting species of organic and C-containing inorganic compounds in CO <sub>2</sub> atmosphere using laser-induced breakdown spectroscopy as a strategy for detection of molecular solids. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 169, 105869.	2.9	13
5	A stochastic model of the process of sequence casting of steel, taking into account imperfect mixing. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	2.2	1
6	In-situ monitoring and characterization of airborne solid particles in the hostile environment of a steel industry using stand-off LIBS. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 115, 1-10.	5.0	33
7	Stand-off laser-induced breakdown spectroscopy for steel-grade intermix detection in sequence casting operations. At-line monitoring of temporal evolution versus predicted mathematical model. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 146, 93-100.	2.9	13
8	Isomer discrimination in condensed phase by laser-induced breakdown spectrometry and laser-ionization mass spectrometry using a tailored paired-pulse excitation scheme. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1469-1476.	3.0	7
9	At-line monitoring of continuous casting sequences of steel using discriminant function analysis and dual-pulse laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1119-1128.	3.0	21
10	Distinction strategies based on discriminant function analysis for particular steel grades at elevated temperature using stand-off LIBS. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 2242-2252.	3.0	15
11	Acting Role of Background Gas in the Emission Response of Laser-Induced Plasmas of Energetic Nitro Compounds. <i>Applied Spectroscopy</i> , 2016, 70, 1364-1374.	2.2	15
12	Primary and recombined emitting species in laser-induced plasmas of organic explosives in controlled atmospheres. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1675-1685.	3.0	30
13	Pressure Effects in Laser-Induced Plasmas of Trinitrotoluene and Pyrene by Laser-Induced Breakdown Spectroscopy (LIBS). <i>Applied Spectroscopy</i> , 2014, 68, 33-38.	2.2	19
14	Laser-induced plasma spectroscopy of organic compounds. Understanding fragmentation processes using ion-photon coincidence measurements. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1377.	3.0	22
15	Condensed-phase laser ionization time-of-flight mass spectrometry of highly energetic nitroaromatic compounds. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1807-1813.	1.5	12
16	Vibrational emission analysis of the CN molecules in laser-induced breakdown spectroscopy of organic compounds. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 89, 77-83.	2.9	77
17	Laser welding of AA 5083 samples by high power diode laser. <i>Science and Technology of Welding and Joining</i> , 2009, 14, 78-86.	3.1	46
18	Laser welding of aluminium alloys 5083 and 6082 under conduction regime. <i>Applied Surface Science</i> , 2009, 255, 9512-9521.	6.1	88