

Bruno Bousquet

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Post-landing major element quantification using SuperCam laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 188, 106347.	2.9	40
2	Extending the potential of plasma-induced luminescence spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 177, 106111.	2.9	5
3	Recording laser-induced sparks on Mars with the SuperCam microphone. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 174, 106000.	2.9	25
4	Should we prefer inverse models in quantitative LIBS analysis?. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 794-803.	3.0	13
5	Critical review and advices on spectral-based normalization methods for LIBS quantitative analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 160, 105688.	2.9	92
6	Guideline for increasing the analysis quality in laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 161, 105696.	2.9	11
7	Listening to laser sparks: a link between Laser-Induced Breakdown Spectroscopy, acoustic measurements and crater morphology. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 153, 50-60.	2.9	57
8	Advanced statistical analysis of LIBS spectra for the sourcing of obsidian samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 867-873.	3.0	19
9	Variable selection in laser-induced breakdown spectroscopy assisted by multivariate analysis: An alternative to multi-peak fitting. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 152, 6-13.	2.9	7
10	Variability and sampling strategy of cave wall concretion: Case study of the moonmilk found in Leye Cave (Dordogne). <i>Archaeometry</i> , 2019, 61, 327-341.	1.3	5
11	Influence of absorption-edge properties on subpicosecond intrinsic laser-damage threshold at 1053 nm in hafnia and silica monolayers. <i>Optics Express</i> , 2019, 27, 16922.	3.4	16
12	Critical aspects of data analysis for quantification in laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 140, 54-64.	2.9	30
13	Exploration of megapixel hyperspectral LIBS images using principal component analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 210-220.	3.0	67
14	Elemental imaging by laser-induced breakdown spectroscopy for the geological characterization of minerals. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1345-1353.	3.0	57
15	Robust optimization of the laser induced damage threshold of dielectric mirrors for high power lasers. <i>Optics Express</i> , 2018, 26, 11764.	3.4	30
16	Chemometrics applied to cathodoluminescence images: a new approach to classify pre-Columbian artefacts from northern Peru. <i>Environmental Science and Pollution Research</i> , 2017, 24, 2205-2209.	5.3	6
17	Variables selection: A critical issue for quantitative laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 134, 6-10.	2.9	24
18	Roughness effects on the hydrogen signal in laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 137, 13-22.	2.9	34

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19	Laser-induced breakdown spectroscopy for elemental characterization of calcitic alterations on cave walls. <i>Environmental Science and Pollution Research</i> , 2017, 24, 2197-2204.	5.3	27
20	Characterization of the Polishing-Induced Contamination of Fused Silica Optics. <i>Journal of the American Ceramic Society</i> , 2017, 100, 96-107.	3.8	26
21	Effects of deep wet etching in HF/HNO ₃ and KOH solutions on the laser damage resistance and surface quality of fused silica optics at 351 nm. <i>Optics Express</i> , 2017, 25, 4607.	3.4	38
22	Photons and electrons for the study of a white veil covering some walls in prehistoric caves. <i>Acta IMEKO</i> (2012), 2017, 6, 82.	0.7	4
23	Multi-block analysis coupled to laser-induced breakdown spectroscopy for sorting geological materials from caves. <i>Talanta</i> , 2016, 159, 287-291.	5.5	15
24	Fluorescence-based knife-edge beam diameter measurement to characterize X-ray beam profiles in reflection geometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 118, 98-101.	2.9	2
25	Quantitative Analysis of Hexahydro-1,3,5-trinitro-1,3,5-Triazine/Pentaerythritol Tetranitrate (RDX/PETN) Mixtures by Terahertz Time Domain Spectroscopy. <i>Applied Spectroscopy</i> , 2015, 69, 1464-1471.	2.2	25
26	Angular dependence of filament-induced plasma emission from a GaAs surface. <i>Optics Letters</i> , 2015, 40, 4548.	3.3	1
27	Application of a series of artificial neural networks to on-site quantitative analysis of lead into real soil samples by laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 97, 57-64.	2.9	58
28	Review of Terahertz Tomography Techniques. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2014, 35, 382-411.	2.2	201
29	Good practices in LIBS analysis: Review and advices. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 101, 171-182.	2.9	247
30	Unexpected temporal evolution of atomic spectral lines of aluminum in a laser induced breakdown spectroscopy experiment. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 101, 330-334.	2.9	11
31	Chemometrics Applied to Quantitative Analysis of Ternary Mixtures by Terahertz Spectroscopy. <i>Analytical Chemistry</i> , 2014, 86, 4927-4933.	6.5	71
32	Review in terahertz spectral analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 44, 98-105.	11.4	149
33	Improvement of the sensitivity for the measurement of copper concentrations in soil by microwave-assisted laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 73, 89-92.	2.9	55
34	In Situ Semi-Quantitative Analysis of Polluted Soils by Laser-Induced Breakdown Spectroscopy (LIBS). <i>Applied Spectroscopy</i> , 2011, 65, 467-473.	2.2	45
35	Investigations of laser-induced plasma in argon by Thomson scattering. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011, 66, 691-697.	2.9	30
36	Silver Clusters Embedded in Glass as a Perennial High Capacity Optical Recording Medium. <i>Advanced Materials</i> , 2010, 22, 5282-5286.	21.0	200

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37	3D Patterning at the Nanoscale of Fluorescent Emitters in Glass. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15584-15588.	3.1	76
38	Luminescence properties of silver zinc phosphate glasses following different irradiations. <i>Journal of Luminescence</i> , 2009, 129, 1514-1518.	3.1	59
39	Local thermodynamic equilibrium and related metrological issues involving collisional-radiative model in laser-induced aluminum plasmas. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 931-937.	2.9	17
40	Beat the diffraction limit in 3D direct laser writing in photosensitive glass. <i>Optics Express</i> , 2009, 17, 10304.	3.4	86
41	Development of a mobile system based on laser-induced breakdown spectroscopy and dedicated to in situ analysis of polluted soils. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 1085-1090.	2.9	54
42	Three-dimensional optical data storage using third-harmonic generation in silver zinc phosphate glass. <i>Optics Letters</i> , 2008, 33, 360.	3.3	102
43	Towards quantitative laser-induced breakdown spectroscopy analysis of soil samples. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 1582-1589.	2.9	115
44	Laser-Induced Breakdown Spectroscopy of Composite Samples: A Comparison of Advanced Chemometrics Methods. <i>Analytical Chemistry</i> , 2006, 78, 1462-1469.	6.5	167
45	Third-Harmonic Generation Microscopy for Material Characterization. <i>Journal of the Optical Society of Korea</i> , 2006, 10, 188-195.	0.6	8
46	Qualitative and quantitative investigation of chromium-polluted soils by laser-induced breakdown spectroscopy combined with neural networks analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 256-262.	3.7	150
47	Optical Properties of Zinc Oxide Nanoparticles and Nanorods Synthesized Using an Organometallic Method. <i>ChemPhysChem</i> , 2006, 7, 2392-2397.	2.1	146
48	Time-resolved and time-integrated single-shot laser-induced plasma experiments using nanosecond and femtosecond laser pulses. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1033-1039.	2.9	52
49	Error analysis and calibration of a spectroscopic Mueller matrix polarimeter using a short-pulse laser source. <i>Measurement Science and Technology</i> , 2002, 13, 1563-1573.	2.6	11
50	Coherent broadband pulse shaping in the mid infrared. <i>Optics Letters</i> , 2001, 26, 743.	3.3	35
51	Polarization errors associated with zero-order achromatic quarter-wave plates in the whole visible spectral range. <i>Optics Express</i> , 2001, 9, 225.	3.4	47
52	Laser induced fluorescence imaging: application to groups of macroalgae identification. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 2561-2571.	2.8	11
53	Class Structure and Optical Nonlinearities in Thallium(I) Tellurium(IV) Oxide Glasses. <i>Journal of Solid State Chemistry</i> , 1999, 146, 329-335.	2.9	98
54	Precise measurements and analysis of linear and nonlinear optical properties of glass materials near 1.5 μm . <i>Optics Communications</i> , 1998, 151, 241-246.	2.1	21

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55	Phase measurement in a collinear pump probe experiment: Application to molecular dynamics studies in liquids. <i>Journal of Chemical Physics</i> , 1998, 109, 7319-7327.	3.0	3
56	Caractérisation et optimisation de matériaux non-linéaires. Application à la technologie des télécommunications. <i>Annales De Physique</i> , 1995, 20, 617-618.	0.2	0