

Jean-Baptiste Sirven

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,779
citations

516681

16
h-index

610883

24
g-index

26
all docs

26
docs citations

26
times ranked

1608
citing authors

#	ARTICLE	IF	CITATIONS
1	The ChemCam Instrument Suite on the Mars Science Laboratory (MSL) Rover: Science Objectives and Mast Unit Description. <i>Space Science Reviews</i> , 2012, 170, 95-166.	8.1	372
2	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	12.6	215
3	Laser-Induced Breakdown Spectroscopy of Composite Samples: A Comparison of Advanced Chemometrics Methods. <i>Analytical Chemistry</i> , 2006, 78, 1462-1469.	6.5	167
4	Feasibility study of rock identification at the surface of Mars by remote laser-induced breakdown spectroscopy and three chemometric methods. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1471.	3.0	159
5	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
6	ChemCam activities and discoveries during the nominal mission of the Mars Science Laboratory in Gale crater, Mars. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 863-889.	3.0	134
7	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
8	Independent component analysis classification of laser induced breakdown spectroscopy spectra. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 86, 31-41.	2.9	66
9	Aerosols Analysis by LIBS for Monitoring of Air Pollution by Industrial Sources. <i>Aerosol Science and Technology</i> , 2011, 45, 918-926.	3.1	61
10	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
11	Towards the determination of the geographical origin of yellow cake samples by laser-induced breakdown spectroscopy and chemometrics. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 451.	3.0	49
12	Analytical optimization of some parameters of a Laser-Induced Breakdown Spectroscopy experiment. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 1077-1084.	2.9	48
13	Chemometrics and Laser Induced Breakdown Spectroscopy (LIBS) Analyses for Identification of Wall Paintings Pigments. <i>Current Analytical Chemistry</i> , 2010, 6, 60-65.	1.2	45
14	Monitoring of heavy metal particle emission in the exhaust duct of a foundry using LIBS. <i>Talanta</i> , 2014, 127, 75-81.	5.5	24
15	Evaluation and optimization of the robustness of a multivariate analysis methodology for identification of alloys by laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 117, 16-22.	2.9	24
16	Analysis of particle release using LIBS (laser-induced breakdown spectroscopy) and TEM (transmission) Tj ETQq0 0 0 rgBT /Overlock 10 T Nanoparticle Research, 2011, 13, 563-577.	1.9	23
17	Analysis of time-resolved laser-induced breakdown spectra by mean field-independent components analysis (<sc>MFICA</sc>) and multivariate curve resolution-alternating least squares (<sc>MCR-ALS</sc>). <i>Journal of Chemometrics</i> , 2017, 31, e2869.	1.3	15
18	Analysis of liquid sodium purity by laser-induced breakdown spectroscopy. Modeling and correction of signal fluctuation prior to quantitation of trace elements. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 82, 28-35.	2.9	14

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19	Characterization of laser ablation of copper in the irradiance regime of laser-induced breakdown spectroscopy analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 101, 164-170.	2.9	14
20	In-situ characterization of nanoparticle beams focused with an aerodynamic lens by Laser-Induced Breakdown Detection. <i>Scientific Reports</i> , 2015, 5, 15696.	3.3	9
21	Determination of electron temperature temporal evolution in laser-induced plasmas through Independent Component Analysis and 3D Boltzmann plot. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 135, 48-53.	2.9	9
22	Assessment of exposure to airborne carbon nanotubes by laser-induced breakdown spectroscopy analysis of filter samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1868-1877.	3.0	7
23	On-line Monitoring of Nanoparticle Synthesis by Laser-Induced Breakdown Spectroscopy in Vacuum. <i>MRS Advances</i> , 2017, 2, 1487-1491.	0.9	5
24	Optical on line techniques for nuclear applications. , 2011, , .		1
25	Development of analytical laser spectroscopy at the French Atomic Energy Commission. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 100, 10-12.	2.9	1