

## LIBS2016 poster presentation program

N° of poster	Presenting or corresponding author Surname First name	Poster Title
1	Camacho Joaquin	Space-time-resolved OES of the laser-produced CaO plasma
2	Carrasco-Garcia Irene Maria	Time-resolved phase-change microscopy combined to optical emission spectroscopy for an understanding of the early stages of plasma formation
3	Cui Zhifeng	Investigation on the Electron Temperature and Electron Density of Laser Induced Plasma of Liquid Matrix
4	Dong Meirong	Spatially resolved laser-induced breakdown spectroscopy in laminar premixed methane–air flames
5	Ershov-Pavlov Evgueni	Calibration free LIBS analysis of solids considering inhomogeneity and time behavior of laser plasma plume
6	Ghezelbash Mahsa	Temperature dependence of magnetic properties of NdFeB alloy sample in LIBS signal
7	Guo Lianbo	Self-absorption reduction in laser-induced breakdown spectroscopy using laser-stimulated absorption and its application
8	Hanif Muhammad	Optical Emission Studies of Indium Plasma Produced by an Nd: YAG Laser
9	Heshmat Samia	Carrier peak isolation for single laser induced plasma interferogram
10	Idris Nasrullah	Shock Wave Plasma Emission Generated with $\mu\text{s}$ Nanosecond Laser Without Using Sample Chamber and Its Application for Quantitative Analysis of Cr in Low Alloy Steel
11	Jouvard Jean-Marie	Comparison of spatio-temporal distribution of species in a plasma obtained with an industrial and a laboratory laser source : applications to nanoparticles
12	Krylov Ivan	The study of asymmetric profiles of Ca I lines belonging to the transitions $n1F^{\circ}3 \rightarrow 31D2$ observed in laser-induced plasma
13	Labutin Timur	Forgotten works in LIBS
14	L'Hermite Daniel	Matrix effect correction: Unexpected decrease of emission lines in LIBS experiment
15	Liu Ping	Magnetic field enhanced recombination of $\text{Li}^+$ ( $1s12s1$ ) with electron in a laser-ablated lithium plasma at 10-2mbar vacuum environment
16	Manrique Javier	Experimental Stark widths and shifts of Ti II spectral lines measured by LIBS
17	Merotto Laura	Local Equivalence Ratio Evaluation in Hydrocarbon Non-Premixed Flames using LIBS and Numerical Simulation

18	Nosrati Yaser	Modeling and Simulation of Double Pulse Laser Ablation and Radiation
19	Pieta Tomas	Studies of thermodynamic equilibrium in laser-induced plasma in argon using emission spectroscopy and laser Thomson scattering
20	Rezaei Fatmeh	A novel theoretical approach for estimation of the plasma characteristics in LIBS experiment
21	Safi Ali	A novel theoretical approach for estimation of the plasma characteristics in LIBS experiment
22	Xu Songning	Laser-induced breakdown spectroscopy and plasma characterization generated by long-pulse laser on soil samples
23	Zaytsev Sergey	Implementation of spectra modeling for the Laser-Induced Breakdown Spectroscopy experimental design
24	Hassanimatin Mohammad Mahdi	Improving analytical performance of laser-induced breakdown spectroscopy (LIBS) using spark discharge
25	Pathak Ashok	Comparative Spatial Analysis of Gallstone using Laser Induced Breakdown Spectroscopy and Electron Probe Micro Analyzer
26	Pedarnig Johannes	Elemental mapping by optical emission spectroscopy of laser ablation - electric spark discharge plasma
27	Sun Duixiong	Metal elements detection by LIBS assisted with glow discharge in water
28	Birklbauer Ludwig	Trace element analysis of steel samples by laser-induced breakdown spectroscopy
29	Colao Francesco	Iterative method for quantitative standardless calibration of trace elements
30	Eschlboeck-Fuchs Simon	Single-pulse and double-pulse calibration-free laser-induced breakdown spectroscopy of industrial and certified steel slags
31	Khalaji Morteza	Quantitative analysis of steel alloys by Laser induced Breakdown spectroscopy. A focus on data analysis methods
32	Kim Dong Seon	Reliability improvement in quantitative analysis of LIBS experiment using precision distance meter
33	Manojkumar Gundawar	Identifying explosives by chemometrics with LIBS using appropriate feature selection
34	Pan Congyuan	An efficient procedure in quantitative analysis using laser-induced plasma spectroscopy
35	Wang Caihong	Improvement of accuracy in analyzing Cr in pork by LIBS coupled with multivariate linear regression
36	Yang Hui	Comparison of PLS and LS-SVM in calibrating Cd content in rice by analyzing LIBS spectra
37	Zhang Tianlong	Classification of iron ore based on acidity and alkalinity by LIBS coupled with N-Nearest Neighbours (N3)

38	Zhang Ying	Rock recognition based on soft independent modeling of class analogy (SIMCA) using LIBS
39	Zhu Yuanshuo	Rock classification based on vector space model (VSM) using LIBS
40	Ahamer Christoph	Femtosecond laser-induced breakdown spectroscopy and elemental mapping of thin films
41	Carrasco-Garcia Irene Maria	Pump-probe phase-change studies of femtosecond ablation on metallic thin-films
42	Ilyin Alexey	Anomalous broadening and shift of emission lines during femtosecond laser filamentation in the air
43	Rother Anne-Sophie	Comparison of molecular spectra excited by femtosecond and nanosecond pulses in laser-induced breakdown spectroscopy
44	Akpovo Codjo	Towards the determination of the 10B/11B isotope ratio using multiple laserinduced breakdown BO molecular emissions
45	Baudelet Matthieu	Laser-induced breakdown emission and absorption spectroscopy of airborne bioaerosols
46	Brown Eiei	A comprehensive study of visible and long-wave infrared eye-safe laserinduced breakdown spectroscopy (LIBS) emissions of inorganic energetic materials and solid pharmaceuticals tablets
47	Cheriet Noureddine	Spectroscopy of plasma induced by laser applied to the analyses of kidney stones, preliminary study
48	Cherni Imen	Hair analysis by the LIBS technology (Laser Induced Breakdown Spectroscopy)
49	Choi Jang Hee	Characteristics of femtosecond laser ablation of biological tissue for laserinduced breakdown spectroscopy elemental analysis
50	Garcia Dario	Spatial Analysis of Trace Elements in Potato by Laser-induced Breakdown Spectroscopy
51	Karel Novotny	Molecular and atomic emission of fluorine by Laser-Induced Breakdown Spectroscopy using 266, 532 and 1064 nm lasers
52	Labutin Timur	Plant materials analysis by LIBS
53	Li Chenyu	Classification for the explosive by using Semi-supervised clustering and Laser-induced Breakdown Spectroscopy
54	Lin Zhaoxiang	Testing the metal ingredients in Traditional medicine by LIBS
55	Moon Youngmin	Classification of skin lesion and normal tissue using laser induced breakdown spectroscopy
56	Nouir Rihem	Analysis of teeth by LIBS (Laser Induced Breakdown Spectroscopy)
57	Nozari Hadi	Considerations of LIBS in organic vapors

58	Oztoprak Belgin Genc	Classification of Polymers By Using Laser-induced Breakdown Spectroscopy and Chemometric Techniques
59	Prochazka David	Combination of Laser-Induced Breakdown Spectroscopy and Raman spectroscopy for discrimination and classification of bacteria strains by means of multivariate data analysis
60	Rammelkamp Kristin	Investigation of halogen atomic and molecular emission in high resolved LIBS spectra under martian conditions
61	Seifalinezhad Aida	A Comparative Study of Normal and Cancerous Tissues Using Spark Discharge Assisted Laser Induced Breakdown Spectroscopy
62	Sokolova Ekaterina	Etymological method of differentiation of bone and muscle tissues by femtosecond LIBS
63	Trautner Stefan	Detection of sulphur and zinc in tyre materials by laser-induced breakdown spectroscopy in helium atmosphere and in air
64	Trichard Florian	Multi-elemental LIBS imaging for biomedical application: Characterization of malignant and healthy skin tissue
65	Zhao Yu	Recognition of explosives on organic substrates using laser-induced breakdown spectroscopy
66	Zheng Peichao	Analysis of Chinese herbal medicines by laser induced breakdown spectroscopy
67	Küçükkeskin Efe	On Time Analysis of Archaeological Remains by Using Laser-Induced Breakdown Spectroscopy (LIBS)
68	Novotny Karel	Laser-Induced Breakdown Spectroscopy for the analysis of model samples of historical paintings
69	Siozos Panayiotis	Pigment identification using a portable hybrid LIBS-diffuse reflectance spectrometer
70	Sobral Hugo	Characterization of pre-Hispanic pottery from Teotihuacán by LIBS
71	Alli Muhammad	Laser Induced Breakdown Spectroscopy in the Vacuum Ultraviolet spectral region (VUV-LIBS)
72	Davitt Stephen	Laser Induced Breakdown Spectroscopy with a Compact Single-Shot Fourier Transform Spectrometer
73	Delaney Ben	Detection Limits for Trace Elements in Steel for Different LIBS Geometries
74	Legnaioli Stefano	Three-Dimensional Compositional Mapping using a Double-Pulse microLIBS Technique
75	Li Qun	A high dynamic range handheld LIBS spectrometer based on high repetition rate micro-pulse laser
76	Li Tianqi	Lens effects on the light collection efficiency for plasma emission
77	Pinon Victor	Comparative tests of an Echelle Multiplex Unit (EMU) spectrometer with a multi-channel spectrometer using a modular LIBS system

78	Piorek Stanislaw	Application of Handheld, uLIBS to Rapid, In-situ Analysis and Grade Identification of Alloys
79	Raimundo Ivo	A simple device for lens-to-sample distance adjustment in LIBS
80	Ramli Muliadi	Emission Characteristics of $\mu$ J Picosecond Laser Induced Plasma and Its Potential Application for Spectrochemical Analysis of Solid Samples
81	Riebe Daniel	Compact high-resolution spectrometer for LIBS analysis of soils
82	Wang Qiuping	Discussions on the key instrumentation techniques of LIBS
83	Zehra Sadaf	A Comparison Between Time-Integrated and Time-Resolved Vacuum Ultraviolet Laser Induced Breakdown Spectroscopy (VUV LIBS)
84	Zhao Tianzhuo	Environment Adaption Design of the Echelle Spectrometer Based LIBS Instruments for Alloys Production Process On-Line Analysis
85	Akpovo Codjo	TEA CO <sub>2</sub> laser enhancement of uranium emissions in nanosecond and femtosecond laser-produced plasmas
86	Bulanov Alexey	Magnification of atomic lines intensity originated by laser breakdown of salt water in ultrasound field
87	Gaudiuso Rosalba	Nanoparticle-Enhanced LIBS (NELIBS) of glass: fundamental investigation and analytical applications
88	Girdauskas Valdas	Pt concentration measurement in used automotive catalyst using double pulse LIBS
89	Le MinhKhoi	Microwave-enhanced LIBS for quantitative analysis of aqueous solutions using calibration-free LIBS
90	Ning Ribo	Study of Enhancement Effects of Copper Alloy Self-hole Confinement on LIBS
91	Sladkova Lucia	Study of the enhancement selectivity in Nanoparticle Enhanced Laser-Induced Breakdown Spectroscopy
92	Viljanen Jan	Microwave assisted laser-induced breakdown spectroscopy at ambient conditions
93	Wang Zhenzhen	Emission characteristics from laser-induced plasma using coaxial long and short double-pulse LIBS
94	Yi Rongxing	Spectral intensity improvement in LIBS by using dual-laser induced fluorescence
95	Zhou Weidong	Comparative study of the signal enhancement of DP-LIBS and LA-FPDPS
96	Biriukova Yulia	Influence of the laser repetition rate on the limits of detection in the femtosecond LIBS of the water solutions
97	Bockova Jana	Surface-assisted laser-induced breakdown spectroscopy as a tool for quantitative analysis of minor elements in wine samples

98	Boudhib Mohamed	Nanoparticle analysis in low-pressure Radio-Frequency plasma via laserinduced breakdown spectroscopy
99	Brada Michal	Comparison of approaches for Laser-Induced Breakdown Spectroscopy analyses of liquid suspensions
100	Gaubeur Ivanise	A new approach to liquid samples elemental analysis by Laser Induced Breakdown Spectroscopy
101	Harris Candace	Characterization of laser-induced plasmas associated with energetic laser cleaning of metal particles on fused silica surfaces
102	Lazic Violeta	Stand-off detection of particles from explosives
103	Lazic Violeta	LIBS analysis of powder samples in small quantities
104	Renot Quentin	Evaluation of the personal exposure to airborne nanoparticles
105	Ripoll Laura	Evaluation of two simple and efficient sample preparation procedures for liquid samples analysis by LIBS: Electrospray pyrolysis deposition and solid phase microextraction
106	Roosma Jorg	Monitoring mineral and heavy metal content of surface water with LIBS
107	Ruas Alexandre	Development of Quick and Remote Analysis for Severe Accident Reactor – Focus on the application of LIBS to zirconium in aqueous solution
108	Sakka Tetsuo	Laser-induced breakdown spectroscopy of particles in liquid
109	Skarkova Pavlina	2D distribution mapping of Quantum Dots injected on chromatographic paper by various LIBS setups
110	Sun Tong	Detection of Cr content in peanut oil by double pulse laser induced breakdown spectroscopy and several multivariate calibration methods
111	Tarasenko Nikolai	Application of LIBS for elemental analysis of nanoparticles in solutions
112	Tassios Steven	An overview of rapid online and offline analysis at CSIRO using laser-induced breakdown spectroscopy
113	Viskup Richard	Laser Induced Breakdown Spectroscopy of Diesel Particulate Matter exhaust emissions generated from diesel combustion engine vehicle
114	Watanabe Soshi	Limit-of-detection evaluation of contaminations in water-mist by microwave-enhanced plasma spectroscopy
115	Yang Clayton	Simultaneous Visible + Long-wave infrared (LWIR) atomic and molecular laser-induced breakdown spectroscopy (LIBS) emissions of thin solid explosive powder films deposited on aluminum substrates
116	Angeyo Kalamuka	LIBS Chemometric Analysis and Modelling of Radiogenic Geothermal Fields
117	Guezenoc Julian	LIBS analysis of agricultural soils: Accurate control of a portable LIBS instrument to assess the analytical ability of the method

118	Harhira Aïssa	LIBS: A Breakthrough in Soil Analysis and Precision Agriculture
119	Idris Nasrullah	Detection of Salts Contamination in Tsunami Sediment Impacted Soil by Means of a TEA CO <sub>2</sub> Laser Induced Breakdown Spectroscopy
120	Li Yuandong	Selecting Ca emission line as internal reference for micro-LIBS analysis of seashell
121	Mal Eshita	Laser Induced-Breakdown studies on tungsten in air
122	Omenetto Nico	Quantitative detection of chlorine in concrete by LIBS: analytical comparison of different emission and photon detection approaches
123	Popov Andrey	Effects of matrix state on the laser-induced plasma parameters for soils and ores
124	Zhao Nanjing	On-Line/On-Site Analysis Water & Soils Heavy Metal Contents by Laser-Induced Breakdown Spectroscopy
125	Abdi Saeed	Design and construction of automatic Stand-off LIBS system for the analysis of inaccessible samples
126	Cheng Kai	Development of a LIBS probe for seafloor sediment measurements with precise laser focusing
127	Guo Jinjia	Development of an underwater LIBS system and the preliminary results in the sea trials
128	L'haridon Jonas	Chemical diversity in diagenetic features observed by ChemCam in Gale Crater, Mars
129	Li Qian	Effect of ambient gas conditions on laser-induced breakdown spectroscopy by long-pulse laser
130	López-Claros Marina	Double pulse laser-induced breakdown spectroscopy of metallic samples submerged at oceanic pressures
131	Meslin Pierre Yves	Calibration of F, Cl, OH and P by LIBS for the characterization of calcium phosphate apatites detected by ChemCam on Mars
132	Payre Valerie	Trace elements in Gale Crater, Mars: Li, Sr, Rb and Ba updated calibrations and quantifications using ChemCam data
133	Song Jiaojian	Laser induced plasma on submerged metallic target with different LFTSD
134	Ye Wangquan	An autonomous operation system for depth profiling detection in the deep sea trials using combined multi-optical spectrometry
135	Bauer Amy	Hand-held LIBS for Provenance of Ammunition Cartridges
136	Bi Yunfeng	Recognition of Minerals by Using Correlation Analysis of Quantitatively Featured Laser-induced Breakdown Spectroscopic Data
137	Bordel Nerea	LIBS Imaging for the visualization of Gunshot Residues Patterns

138	Cho Yuichiro	Development of an in-situ K–Ar isochron dating method 3: quantitative potassium measurements with LIBS using 15–30 mJ laser
139	Fabre Cecile	Field applications using portable LIBS : first tests on Ag-rich galena veins and carbonates
140	Labutin Timur	“Scintillation” scheme of analytical signal registration for LIBS determination of precious metals traces in geological samples
141	Lebedev Vyacheslav	Real-time semi-quantitative determination of lithium in forsterite single crystals using laser-induced breakdown spectroscopy
142	LeGras Monica	Laser-induced breakdown spectroscopy for routine analysis of geological materials
143	Malaba Joy	Chemometrics-based LAMIS applied to nuclear forensics
144	Moncayo Samuel	LIBS for multi-elemental imaging in paleoclimate studies
145	Romppanen Sari	Analysis of lithium ore samples by laser-induced breakdown spectroscopy
146	Suchonova Maria	Analysis of Indium bearing mineral by Laser Induced Breakdown Spectroscopy
147	Tassios Steven	Analysis of gold in geological samples using acid digestion, solvent extraction and laser-induced breakdown spectroscopy
148	Bhatt Bobby	Rapid In-Field Nuclear Forensics Analysis Via Machine Learning Based LIBS
149	Coulon Nadine	Remote LIBS system for in situ material characterization in nuclear facilities under decommissioning
150	Hartig Kyle	Standoff Detection of Uranium and its Isotopes through Optical Spectroscopy of Femtosecond Laser-Produced Plasmas
151	Jovanovic Igor	Alkali Elements as Surrogates for Quantification of Chlorine on Steel Surfaces in Dry Cask Storage of Spent Nuclear Fuel
152	Lie Zener Sukra	Preliminary H-D Analysis Employing Low Pressure $\mu$ J Picosecond LaserInduced Breakdown Spectroscopy (LIBS)
153	Rinaldi Carlos	Isotopic analysis of uranium in matrix of alumina by LIBS
154	Balachninaite Ona	Laser induced breakdown spectroscopy application in monitoring of the femtosecond laser micromachining process of glass immersed in water
155	Banerjee Shyama	Application of Laser Induced Breakdown Spectroscopy for Characterization of Organic Photovoltaic Devices
156	Breithaupt Sebastian	Application of LIBS for technical rubber goods
157	De Saro Robert	Applying LIBS to Industrial Process Control: The Coal and Aluminum Industries



158	Demir Arif	Depth analysis of DLC, TiB <sub>2</sub> , and Al <sub>2</sub> O <sub>3</sub> thin films by LIBS
159	Doucet François	Dawn of the 4th industrial revolution
160	Gilon Nicole	LIBS Fast analysis for the identification and recycling of different materials
161	Gottlieb Cassian	On-site carbon analysis in coal using a mobile LIBS system
162	Gottlieb Cassian	Damage assessment of infrastructures using a mobile LIBS system
163	Kaci Imene	Laser-induced breakdown spectroscopy applied to steel analysis
164	Kashiwakura Shunsuke	Linearity of calibration lines of a major element X in Fe-X binary alloys by laser-induced breakdown spectroscopy
165	Legnaioli Stefano	An efficient approach for sorting analysis based on LIBS and ANN: the SHREDDERSORT project
166	Lienemann Charles	The need of rapid analysis in the petroleum industry, 2 case studies where LIBS can be quite efficient
167	Ma Youngtaek	Gas Phase Glass Inclusion Analysis Using Laser Induced Breakdown Spectroscopy
168	Prucha Lukas	Depth Profile Analysis Using Laser-Induced Breakdown Spectroscopy
169	Meima J.A.	Calibration of LIBS drilling core measurements with respect to valuable metals in heterogeneous mining residues using PLSR
170	Taparli UgurAlp	Development of a LIBS analysis system for time- and space-resolved in situ measurement of chemical compositions during GTA-Welding
171	Wang Xilin	Study on RTV Coatings Used in Transmission Lines With Laserinduced Breakdown Spectroscopy Technique
172	Yin Hualiang	Cement raw material quality analysis using LIBS
173	Zhang Lei	Stability enhanced on-line powdery cement raw materials quality monitoring using LIBS