

Poster Session 1 (CP-01~16:CSI, AP-01~21, 45: ASLIBS) : Tuesday 27th 9:20-18:30 Poster Session 2 (CP-17~31:CSI, AP-22~44: ASLIBS) : Wednesday 28th 9:20-18:30 Intensive Discussion : 16:30-18:30

Poster Board: W0.9m×H1.8m

Tuesday 27th Analysis of Structural Isomers of Alumina Formed by Oxidation Shigeru Suzuki, Michihisa Fukumoto, Kano CP-1 Nakajima, Susumu Imashuku of Fe-Cr-Al Alloys Vanessa Antunes, Sara Valadas, Miriam Pressato, António Candeias, José Mirão, The Evolution of Still Lifes in Earth Materials: From Baltazar CP-2 Gomes Figueira to Josefa d'Óbidos Ana Cardoso, Maria L. Carvalho, Sofia Pessanha Detectability of ancient organic compounds in various Ioana Maria Cortea, Luminița CP-3 archaeological artefacts via combined non- and minimally-[ST] Ghervase, Monica Dinu, Ovidiu Țentea invasive mobile spectroscopic techniques INFRA-ART: An open-access integrated spectral library of art CP-4 Ioana Maria Cortea, Alecsandru Chiroșca, related materials for enhanced accessibility in cultural heritage [ST] Laurentiu Anghelută Yuhei Yamamoto, Shun-ichi Tokoro, Ryosuke Application of MC-ICP-MS with solid extraction method using CP-5 Murase, Ryoichi Nakada, Kazuya Nagaishi, chelate column for trace lead isotopes in wet depositions Shoji Imai Gold nanostructures produced by low-temperature heating of the Chihiro Akiba, Manae Yamasaki, Yunhao CP-6 dry residue of a droplet of a solution of HAuCl4 for surface-[ST] Hu, Shinsuke Kunimura enhanced Raman scattering analysis Characterization of melem (2,5,8-triamino-heptazine) by soft X-Yasuji Muramatsu, Yoshito Kashitani, Arisa Une CP-7 ray absorption/emission spectroscopies and theoretical analysis In-atomizer trapping of cadmium and selenium in novel designs CP-8 Milan Svoboda, Stanislav Musil, Jan Kratzer of dielectric brrier discharge plasma atomizers How symmetry helps to improve the estimation of the hyperfine George A. Pitsevich, Alex E. Malevich, CP-9 splitting of vibrational levels due to tunneling. The case of the Alexander A. Kamnev **HSOSH** and **HOSOH** molecules CP-10 In-situ XANES measurements of thermal denaturation of Ikuya Shimogaki, Yasuji Muramatsu [ST] proteins in eggs CP-11 Rihoko Miyazaki, Yuya Akahane, Shinsuke Total reflection X-ray fluorescence analysis of the dry residue of [ST] Kunimura a large volume droplet of a water sample Use of SP-ICP-MS for the study of parameters affecting sensing CP-12 Atitiaya Suratsawadee, Atitaya Siripinyanond, performance of gold nanoparticles as colorimetric sensor for Jitapa Samranjit [ST] lead detection In situ determination of the compositions of Ni-Cu film during CP-13 Susumu Imashuku sputtering process CP-14 Yuki Tada, Yoshihiro Deguchi, Takahiro Research on high-sensitivity NH3 measurement technique using [ST] Kamimoto CT Tunable diode laser absorption spectroscopy

CP-15	Ciro Eliseo Márquez Herrera, Reina Elizabeth Haro Torralba, Ana Larissa Barbosa Sánchez, Leticia Hernández Cadena, Octavio Gamaliel Aztatzi Aguilar, Ma. de Lourdes Guadalupe Flores Luna, Martha Patricia Sierra Vargas, Consuelo Escamilla Núnez	Trace elements analysis in pleural fluid from patients in Meexico city using ICPMS
CP-16 [ST]	<u>Yushi Yoshioka,</u> Daichi Takagoshi, Harunobu Takeda, Hiroaki Yoshioka and Yuji Oki	Anisotropic scattering properties of micro-/nano-foamed PDMS
AP-1	Yuanchao Liu, Muhammad Shezad Khan, Irfan Ahmed, Condon Lau	Insertable, scabbarded, and nano-etched silver needle biosensor for hazardous elements depth profiling using laser-induced breakdown spectroscopy
AP-2 [ST]	<u>Jiacen Liu</u> , Weiran Song, Weilun Gu, Zhe Wang	Long-term repeatability improvement using beam intensity distribution for laser-induced breakdown spectroscopy
AP-3 [ST]	Zhongqi Feng, Dacheng Zhang, Hanxing Ge, Yulu Ba, Jiajia Hou, Lei Zhang	The LIBS signal enhancement of multiple lines from multiple elements by femtosecond supercontinuum laser
AP-4 [ST]	<u>Yuzhou Song,</u> Weiran Song, Liang Li, Weilun Gu, Kaikai Kou, Muhammad Sher Afgan, Zongyu Hou, Zheng Li, Zhe Wang	Flame-assisted plasma modulation to improve the raw signal quality for laser-induced breakdown spectroscopy
AP-5	<u>Weiliang Wang</u> , Yuanchao Liu, Siyi Xiao, Lianbo Guo	Stable sensing platform for diagnosing electrolyte disturbance using laser-induced breakdown spectroscopy
AP-6 [ST]	XueChen Niu, Feiyu Gan, Deng Zhang, Lianbo Guo	A spectral stability correction method based on plasma image affected by laser energy fluctuation in laser-induced breakdown spectroscopy
AP-7 [ST]	Tong Chen, Lanxiang Sun	Online Fe grade monitoring of iron ore slurry by Morse wavelet transform and lightweight convolutional neural network based on LIBS
AP-8	Wenhao Yan, Jiaxin Lv, Chenwei Zhu, Qingzhou Li, Ji Chen, Lizhu Kang, Bing Lu, Xiangyou Li	A high-stability laser induced breakdown spectroscopy detection based on Bessel beam
AP-9 [ST]	Weizhe Ma, Shunchun Yao, Ziyu Yu, Qi Yang	Development of a LIBS-NIRS tandem detection system in coal analysis
AP-10 [ST]	Ziyu Yu, Shunchun Yao, Qi Yang	Study on plasma morphology variation in laser-induced breakdown spectroscopy analysis of particle flow
AP-11	<u>Shengqun Shi</u> , Honghua Ma, Dengzhang, Lianbo Guo	LIBS for Accurate Qualitative and Quantitative Analysis of Brown Rice Flour Adulteration
AP-12 [ST]	S. Atikukke, S.J. Shetty, W. Khan, P. Ď urina, T. Roch, P. Dvořák, E. Grigore, F. Baiasud, P. Veis	Depth Analysis of WTa-D/Mo sample by Resonant-Laser Induced Breakdown Spectroscopy
AP-13 [ST]	Hanbeom Choi, Hyang Kim, Sang-Ho Nam, Song-Hee Han, Yonghoon Lee	Collecting dry residues in the laser-produced micro-trenches on the silicon wafer for sensitive laser-induced breakdown spectroscopy analysis of bio-fluids
	A. N. Wangeci, D. Adén, M. H. Greve, M. A. Knadel	Predicting texture and soil organic carbon in European soils using laser-induced breakdown spectroscopy
AP-15	Hanyun Li, Denghong Zhang, Hengli Qian, <u>Weiwei Han.</u> Duixiong Sun	Analysis of mural pigments based on LIBS and Raman technology
AP-16	Weiwei Han, Duixiong Sun, Guoding Zhang, Guanghui Dong, Maogen Su	Single-Point and Multi-Point Quantitative Analysis in Aluminum Alloy Samples Using LIBS
AP-17	Peng Zhao, <u>Weiwei Han</u> , Duixiong Sun, Guoding Zhang, Maogen Su	Application of LIBS spectral data fusion in quantitative analysis of Astragalus

AP-18	Yaopeng Yin, <u>Duixiong Sun</u> , Weiwei Han, Zongren Yu	Application of LIBS technique in Analyzing of Wall Paintings in Dunhuang Mogao Grottoes
AP-19 [ST]	<u>Kou Kaikai,</u> Song Weiran, Hou Zongyu, Wang Zhe	Quantitative combustion diagnosis by laser induced breakdown spectroscopy: effect of temperature
AP-20 [ST]	Kaifan Zhang, Zongyu Hou, Zhe Wang	Effect of spatio-temporal windows for spectral collection on laser-induced breakdown spectroscopy (LIBS) signal at different pressures
AP-21 [ST]	<u>Qi Yang</u> , Shunchun Yao, Weizhe Ma, Ziyu Yu	LIBS raster scanning analysis for aluminium alloy classification using a fiber-Nd:YAG orthogonal dual-pulse system
AP-45 [ST]	Junxiao Wang, Lei Zhang, Wangbao Yin	Theoretical study on signal enhancement of orthogonal double pulse induced plasma
	Wedr	nesday 28th
CP-17	Ajchara Limsakul, Anongnad Teprak, Atitaya Siripinyanond, Juwadee Shiowatana	Development of a test kit for chromium determination in water
CP-18	Shigeru Suzuki, Yuta Uemura, Kozo Shinoda, Shigeo Sato	Characterization of structure changes in stress-induced martensitic transformation and shape memory properties of Fe- Mn-Si alloys
CP-19	Hiroyuki Nakata	The pH Response of Excitation-Emission Features in Fluorescein
CP-20	<u>Shintaro Ichikawa</u> , Yuta Ishikake, Yukiko Nishi, Satoshi Kawata, Hirofumi Yamakawa, Tsutomu Kurisaki	Characterization of iron sands around Mt. Aburayama (Fukuoka, Japan) by XRF, XRD, and Mössbauer spectroscopy
	Shunya Inamoto, Yoshinari Abe, Akiko Hokura, Emiko Harada, Michio Suzuki	Distribution and chemical speciation of manganese in freshwater pearls by synchrotron radiation X-ray analyses
CP-22 [ST]	S. Ozeki, R. Kato, T. Tanaka, T. Yano	Surface-enhanced Raman spectroscopy of odor molecules using graphene-based plasmonic nanostructures
CP-23 [ST]	<u>Masato Tokoro</u> , Yu Imamura, Kazuhiro Kumagai, Akiko Hokura	Synchrotron X-ray analyses reveal the mechanism of Pt uptake in unicellular algae
CP-24 [ST]	<u>Tatsuya Fukuta</u> , Ryo Kato, Takuo Tanaka, Taka-aki Yano	Highly sensitive fluorescence spectroscopy using high-index dielectric nanoparticles
CP-25	Hirofumi Yamamoto, Yuichiro Saito, Kazuo Taniguchi, Akira Yoshikawa	The measurement of Bata rays assuming discharge of ALPS treated water into the sea at Fukushima Daiichi Nuclear Power Plant
CP-26	Akira Kuwahara, Kenta Murakami, Hideki Tomita, Youichi Enokida	Spectroscopic signatures of uranium atoms in laser ablation plasma plume under a high vacuum ambience
CP-27	Toshitsugu Marushima	Imaging Application using Raman Spectroscopy for Life Science
CP-28 [ST]	<u>Naoki Daigo</u> , Tomomi Iihara, Kozue Takano, Yuki Ito, Kazunari Maki, Shigeru Suzuki, Shigeo Sato	Effect of alloying elements on dislocation evolution in highly deformed copper alloys
CP-29 [ST]	<u>Seiichi Karasawa</u> , Kana Baba, Yusuke Onuki, Yuma Nagaoka, Masato Ito, Shigeru Suzuki, Shigeo Sato	Observation of dislocation evolution in Cu-Zn alloys during high-temperature deformation by using neutron diffraction
CP-30 [ST]	Kana Baba, Kazuhiro Mizusawa, Kozue Takano, Tomomi Iihara , Yuki Ito, Kazunari Maki, Shigeru Suzuki, Shigeo Sato	Variations in stress relaxation of kinds of alloying elements in solid-solution copper alloys
CP-31	Stefano Legnaioli, Beatrice Campanella, Susanna Monti, Vincenzo Palleschi, Francesco Poggialini, Giovanna Costanzo	Spectroscopic characterization of prebioitic molecules

	Tianzhong Luo, Mengyu Bao, Geer Teng,	1
AP-22	Xiangjun Xu, Kai Wei, Zhifang Zhao, Yongyue Zheng, Bingheng Lu, Qianqian Wang	Identification of three kinds of Mutong medicinal materials based on laser-induced breakdown spectroscopy
AP-23	<u>Takahiro Karino</u> , Katsuaki Akaoka, Hironori Ohba, Ikuo Wakaida, Joey Kim Soriano, Yuji Ikeda	Uranium isotope measurement by microwave-enhanced LIBS
AP-24 [ST]	Jeongcheol Ahn, Jaepil Lee, Jungwon Choi, Sungho Jeong, Jiyoung Ma, Jung-Je Woo	Development of the calibration model for Li-ion battery electrode concentration by laser-induced breakdown spectroscopy
AP-25 [ST]	<u>Jaepil Lee</u> , Sungho Shin, Seongguk Bae, Sungho Jeong	Method for improving classification accuracy of painted metal scraps during laser-induced breakdown spectroscopy analysis
AP-26	<u>Chengjun Li</u> , Zhimin Lu, Ziyu Yu, Shunchun Yao	Exploring the chemistry matrix effects in the quantitative analysis of potassium by LIBS
AP-27 [ST]	Yongyue Zheng, Geer Teng, Xiangjun Xu, Zhifang Zhao, Kai Wei, Tianzhong Luo, Yongyue Zheng, Bingheng Lu, Qianqian Wang	Femtosecond Laser-induced breakdown Spectroscopy studies for the discrimination of plastics
AP-28	Sang-Ho Nam, Hyang Kim, Yonghoon Lee	Laser-induced breakdown spectroscopy analysis of polished rice grains and their husks
AP-29 [ST]	Ioana Maria Cortea, Monica Dinu, Luminița Ghervase, Lucian Ratoiu, Ovidiu Țentea	A minimally-invasive multimethod approach for the study of paint-layer stratigraphy in some 2nd century polychrome murals
AP-30 [ST]	Gookseon Jeon, Woonkyeong Jung, Hohyen Keum, Kyunghwan Oh, Janghee Choi	Improving the robustness of laser-induced breakdown spectroscopy for industrial steel classification
AP-31 [ST]	Masashi Shintani, Yuko Yokoyama, Naoya Nishi, Tetsuo Sakka	Line width of Fraunhofer-type absorption in underwater LIBS
AP-32	<u>Jiujiang Yan</u> , Qingzhou Li, Fangjun Qin, Liangfen Xiao, Xiangyou Li	A polynomial interactive reconstruction method based on spectral morphological features in the classification of gem minerals using portable LIBS
AP-33 [ST]	Shixin Hu, Liang Chen, Yuan Lu, Wangquan Ye, Ziwen Jia, Ye Tian, Zengfeng Du, Xin Zhang, Ronger Zheng	Super-resolution algorithm in the spectral reconstruction of laser-induced breakdown spectroscopy for rare earth elements detection
AP-34 [ST]	<u>Haorong Guo</u> , Yada Chi, Zexuan Dong, Minchao Cui	Rapid analysis of steel powder for 3D printing using laser-induced breakdown spectroscopy
AP-35 [ST]	Shoujie Li, Yuan Lu, Wangquan Ye, Ye Tian, Ying Li, Jinjia Guo, Ronger Zheng	Evaluation of long-pulse laser in micro laser-induced breakdown spectroscopy for human teeth analysis
AP-36	Zhuoyan Zhou, Yuzhu Liu	LIBS in-situ online methane detection and analysis method based on C and CN spectral line competition
AP-37	Ryuzo Nakanishi, Morihisa Saeki, Hironori Ohba	Detection of trace metals in aqueous solutions by LIBS with liquid sheet jets
AP-38	Koji Tamura, Ryuzo Nakanishi, Hironori Ohba, Ikuo Wakaida	Radiation Effects for a Ceramics and a Single Crystal Microchip of a Laser-Induced Breakdown Spectroscopy (LIBS) System for Remote Analysis
AP-39 [ST]	Yusuke Shimazu, Hideo Nagahashi, Kosuke Suzuki, Haruka Nakano, Ayumu Matsumoto, Shinji Yae	Surface-enhanced LIBS using a porous silicon substrate — Introduction of fiber-optic system for remote analysis—
AP-40	Ryoichi Okada, Yoshihiro Deguchi	Development of high spatial resolution mapping LIBS measurement technique for picosecond lasers
AP-41 [ST]	Shilei Xiong, Nan Yang, Guangyuan Shi, Minchao Cui	A new idea of multi-modal fusion based on LIBS spectroscopy-laser ultrasound
AP-42	Jun Feng, Qihang Zhang, Xu Lu, Boyuan Han, Zhuoyan Zhou, Yuzhu Liu	On-line detection of VOCs in the atmosphere based on LIBS and Raman technology
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AP-43	and Ying Li	Correction method for spectra of underwater laser-induced breakdown spectroscopy under high-pressure conditions based on functional data analysis
AP-44 [ST]	Hiahiii Liang Lei Zhang Wanghao Yin	Non-contact bacterial identification and decontamination based on laser-induced breakdown spectroscopy