

Andrey M Popov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9039493/publications.pdf>

Version: 2024-02-01

48
papers

1,385
citations

361296

20
h-index

330025

37
g-index

49
all docs

49
docs citations

49
times ranked

984
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtosecond laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 90-118.	1.6	197
2	A review of normalization techniques in analytical atomic spectrometry with laser sampling: From single to multivariate correction. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 642-657.	1.5	157
3	Spatial confinement of laser-induced plasma to enhance LIBS sensitivity for trace elements determination in soils. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 837.	1.6	147
4	Enhancement of LIBS signal by spatially confining the laser-induced plasma. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 602.	1.6	92
5	Correlation between properties of a solid sample and laser-induced plasma parameters. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 938-949.	1.5	65
6	Determination of chlorine, sulfur and carbon in reinforced concrete structures by double-pulse laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 94-100.	1.5	55
7	Qualitative and quantitative analysis of environmental samples by laser-induced breakdown spectrometry. <i>Russian Chemical Reviews</i> , 2015, 84, 1021-1050.	2.5	51
8	Comparison of single- and multivariate calibration for determination of Si, Mn, Cr and Ni in high-alloyed stainless steels by laser-induced breakdown spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1417-1424.	1.6	39
9	Measurement system for high-sensitivity LIBS analysis using ICCD camera in LabVIEW environment. <i>Journal of Instrumentation</i> , 2014, 9, P06010-P06010.	0.5	38
10	Determination of chlorine in concrete by laser-induced breakdown spectroscopy in air. <i>Journal of Applied Spectroscopy</i> , 2013, 80, 315-318.	0.3	37
11	Determination of Ag, Cu, Mo and Pb in soils and ores by laser-induced breakdown spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1925-1933.	1.6	36
12	Development of Calibration-Free Laser-Induced-Breakdown-Spectroscopy based techniques for deposited layers diagnostics on ITER-like tiles. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 87, 153-160.	1.5	35
13	Rapid, direct determination of strontium in natural waters by laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1123-1130.	1.6	34
14	Matrix effects on laser-induced plasma parameters for soils and ores. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 148, 205-210.	1.5	33
15	Accuracy enhancement of a multivariate calibration for lead determination in soils by laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 140, 65-72.	1.5	32
16	Comparison of the thermodynamic and correlation criteria for internal standard selection in laser-induced breakdown spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 87, 57-64.	1.5	30
17	Automatic Identification of Emission Lines in Laser-Induced Plasma by Correlation of Model and Experimental Spectra. <i>Analytical Chemistry</i> , 2013, 85, 1985-1990.	3.2	26
18	A novel approach to sensitivity evaluation of laser-induced breakdown spectroscopy for rare earth elements determination. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 2223-2226.	1.6	25

#	ARTICLE	IF	CITATIONS
19	Stationary model of laser-induced plasma: Critical evaluation and applications. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 158, 105632.	1.5	24
20	Carbon determination in carbon-manganese steels under atmospheric conditions by Laser-Induced Breakdown Spectroscopy. <i>Optics Express</i> , 2014, 22, 22382.	1.7	23
21	Three calibration techniques combined with sample-effective design of experiment based on Latin hypercube sampling for direct detection of lanthanides in REE-rich ores using TXRF and WDXRF. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 224-232.	1.6	18
22	Experimental measurements of Stark widths for Mn I lines in long laser spark. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 125, 43-51.	1.5	17
23	Analytical signal normalization in laser-enhanced ionization spectrometry with laser ablation of solid samples into a flame. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 775-782.	1.5	14
24	Application of Laser-Induced Breakdown Spectrometry for analysis of environmental and industrial materials. <i>Moscow University Chemistry Bulletin</i> , 2009, 64, 366-377.	0.2	11
25	Rapid determination of zinc in soils by laser-induced breakdown spectroscopy. <i>Technical Physics Letters</i> , 2013, 39, 81-83.	0.2	11
26	Enhanced Sensitivity of Direct Beryllium Determination in Soil by Laser-Induced Breakdown Spectrometry. <i>Journal of Applied Spectroscopy</i> , 2015, 82, 739-743.	0.3	11
27	Reduction of the matrix influence on analytical signal in laser-enhanced ionization spectrometry with laser sampling. <i>Talanta</i> , 2006, 69, 1046-1048.	2.9	10
28	Multivariate correction in laser-enhanced ionization with laser sampling. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 211-216.	1.5	10
29	Selection of an analytical line for determining lithium in aluminum alloys by laser induced breakdown spectrometry. <i>Journal of Analytical Chemistry</i> , 2007, 62, 1151-1155.	0.4	10
30	Orthogonal and Collinear Configurations in Double-Pulse Laser-Induced Breakdown Spectrometry to Improve Sensitivity in Chlorine Determination. <i>Journal of Applied Spectroscopy</i> , 2017, 84, 319-323.	0.3	10
31	Confinement of Laser Plasma by Shock Waves for Increasing Signal Intensity in Spectrochemical Determination of Trace Elements in Ores. <i>Technical Physics Letters</i> , 2018, 44, 73-76.	0.2	9
32	Comments on "Sensitive analysis of carbon, chromium and silicon in steel using picosecond laser induced low pressure helium plasma". <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 118, 37-39.	1.5	8
33	Experimental Stark parameters of Mn I lines in the ${}^6P^{\circ} \rightarrow {}^6S$ multiplet under conditions of laser plasma. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2017, 123, 521-525.	0.2	7
34	The effect of hyperfine splitting on Stark broadening for three blue-green Cu I lines in laser-induced plasma. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 5594-5603.	1.6	7
35	Emission spectroscopy of long cylindrical laser spark with additional coaxial excitation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 157, 22-26.	1.5	7
36	Shift of ionization equilibrium in spatially confined laser induced plasma. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1975-1981.	1.6	6

#	ARTICLE	IF	CITATIONS
37	Tackling the FeO orange band puzzle in meteor and airglow spectra through combined astronomical and laboratory studies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 4296-4306.	1.6	6
38	Signal recording system based on a LabVIEW™ virtual instrument using a multichannel high speed ADC. <i>Measurement Techniques</i> , 2011, 54, 213-218.	0.2	5
39	Determination of copper content in soils and ores by laser-induced breakdown spectrometry. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2016, 121, 339-342.	0.2	5
40	Determination of the Mn/Fe Ratio in Ferromanganese Nodules Using Calibration-Free Laser-Induced Breakdown Spectroscopy. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2019, 126, 316-320.	0.2	5
41	Correlation between mechanical properties of aluminum alloys and characteristics of laser-induced plasma. <i>Proceedings of SPIE</i> , 2007, 7022, 393.	0.8	4
42	Determination of lithium in lithium-ionic conductors by laser-enhanced ionization spectrometry with laser ablation. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 176-184.	1.6	4
43	Comments on "Detection of rare earth elements in Powder River Basin sub-bituminous coal ash using laser-induced breakdown spectroscopy (LIBS)" by Phuoc et al.. <i>Fuel</i> , 2016, 167, 375-376.	3.4	3
44	Evaluation of Aging of Reinforced Concrete Structures by Laser-Induced Breakdown Spectroscopy of Reinforcement Corrosion Products. <i>Journal of Applied Spectroscopy</i> , 2020, 87, 800-804.	0.3	3
45	Influence of ferrite surface microstructure on laser ablation. <i>Proceedings of SPIE</i> , 2007, , .	0.8	2
46	Different calibration strategies to overcome matrix effect in steel analysis by laser-induced breakdown spectroscopy. <i>Proceedings of SPIE</i> , 2010, , .	0.8	2
47	Nonlinear normalization for laser-enhanced ionization spectrometry with laser sampling into a flame. <i>Moscow University Chemistry Bulletin</i> , 2008, 63, 219-223.	0.2	1
48	Comment on "Laser produced plasma diagnosis of carcinogenic heavy metals in gallstones" by M. A. Gondal, M. A. Shemis, A. A. I. Khalil, M. M. Nasr and B. Gondal, <i>JAAS</i> , 2016, 31, 506. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 2053-2055.	1.6	1