

Pavel A Sdvizhenskii

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

349
citations

933447

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839539

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all docs

33
docs citations

33
times ranked

265
citing authors

#	ARTICLE	IF	CITATIONS
1	Sample temperature effect on laser ablation and analytical capabilities of laser induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 607-615.	3.0	37
2	In situ elemental analysis and failures detection during additive manufacturing process utilizing laser induced breakdown spectroscopy. <i>Optics Express</i> , 2019, 27, 4612.	3.4	34
3	Compact diode-pumped Nd:YAG laser for remote analysis of low-alloy steels by laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 294-303.	3.0	33
4	In situ multi-elemental analysis by laser induced breakdown spectroscopy in additive manufacturing. <i>Additive Manufacturing</i> , 2019, 25, 64-70.	3.0	29
5	Elemental profiling of laser clad multilayer coatings by laser induced breakdown spectroscopy and energy dispersive X-ray spectroscopy. <i>Applied Surface Science</i> , 2017, 416, 302-307.	6.1	27
6	Combining Raman and laser induced breakdown spectroscopy by double pulse lasing. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 277-286.	3.7	21
7	Online laser-induced breakdown spectroscopy for metal-particle powder flow analysis during additive manufacturing. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 246-253.	3.0	18
8	Online and in situ laser-induced breakdown spectroscopy for laser welding monitoring. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 175, 106032.	2.9	18
9	Laser induced breakdown spectroscopy with picosecond pulse train. <i>Laser Physics Letters</i> , 2017, 14, 026002.	1.4	16
10	Laser-induced breakdown spectroscopy for three-dimensional elemental mapping of composite materials synthesized by additive technologies. <i>Applied Optics</i> , 2017, 56, 9698.	1.8	16
11	Transformations of the Spectrum of an Optical Phonon Excited in Raman Scattering in the Bulk of Diamond by Ultrashort Laser Pulses with a Variable Duration. <i>JETP Letters</i> , 2022, 115, 251-255.	1.4	10
12	Laser crater enhanced Raman spectroscopy. <i>Optics Letters</i> , 2017, 42, 607.	3.3	9
13	Laser induced breakdown spectroscopy for in-situ multielemental analysis during additive manufacturing process. <i>Journal of Physics: Conference Series</i> , 2018, 1109, 012050.	0.4	9
14	Investigation of the feasibility of online laser-induced breakdown spectroscopy for elemental analysis of compositionally graded alloy parts during their fabrication. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 540-547.	3.0	8
15	Laser induced breakdown spectroscopy for multielement analysis of powdered materials used in additive technologies. <i>Spectroscopy Letters</i> , 2018, 51, 184-190.	1.0	7
16	Deep ablation and LIBS depth elemental profiling by combining nano- and microsecond laser pulses. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 177, 106054.	2.9	7
17	Surface plasma influence on nanosecond laser ablation. <i>Applied Optics</i> , 2019, 58, 1496.	1.8	7
18	Improving Calibration Strategy for LIBS Heavy Metals Analysis in Agriculture Applications. <i>Photonics</i> , 2021, 8, 563.	2.0	7

#	ARTICLE	IF	CITATIONS
19	Laser Welding Spot Diagnostics by Laser-Induced Breakdown Spectrometry. Physics of Wave Phenomena, 2021, 29, 221-228.	1.1	6
20	In situ laser-induced breakdown spectroscopy measurements during laser welding of superalloy. Applied Optics, 2021, 60, 1144.	1.8	5
21	Remote Laser Induced Fluorescence of Soils and Rocks. Photonics, 2021, 8, 411.	2.0	4
22	Lidar Monitoring of Moisture in Biological Objects. Doklady Physics, 2021, 66, 273-276.	0.7	4
23	Optimizing laser crater enhanced Raman scattering spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 196, 31-39.	3.9	2
24	Laser induced breakdown spectrometry for elemental mapping of wear resistant coatings synthesized by laser cladding. Journal of Physics: Conference Series, 2018, 1109, 012066.	0.4	2
25	Optimizing laser crater enhanced Raman spectroscopy. Applied Optics, 2018, 57, 2096.	1.8	2
26	Tablet Coating Thickness Measurements by Combined Raman Spectrometry and Laser Induced Breakdown Spectrometry Techniques. Bulletin of the Lebedev Physics Institute, 2020, 47, 87-91.	0.6	2
27	Laser-Induced Breakdown Spectrometry for Analyzing the Composition of the Products during Coaxial Laser Cladding. Moscow University Chemistry Bulletin, 2020, 75, 77-81.	0.6	2
28	Effect of Surface Plasma on Nanosecond Laser Ablation. Bulletin of the Lebedev Physics Institute, 2018, 45, 399-403.	0.6	1
29	Laser induced breakdown spectroscopy for in situ multielemental analysis during additive manufacturing process. , 2019, , .		1
30	Eye-safe LIDAR sensing through dense fog. , 2020, , .		1
31	Combined Nano- and Microsecond Laser Ablation for Elemental Depth Profiling of Metal Targets by Laser-Induced Breakdown Spectroscopy. Physics of Wave Phenomena, 2022, 30, 37-43.	1.1	1
32	Interlayer Dilution Zone Elemental Profiling and Microhardness Measurements for Individual Laser Clads. Physics of Metals and Metallography, 2020, 121, 1473-1477.	1.0	0