

David M Surmick

List of Publications by Year in descending order

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18
papers

241
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1163117

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940533

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docs citations

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times ranked

259
citing authors

#	ARTICLE	IF	CITATIONS
1	Computation of diatomic molecular spectra for selected transitions of aluminum monoxide, cyanide, diatomic carbon, and titanium monoxide. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 107, 132-138.	2.9	88
2	Aluminum Flame Temperature Measurements in Solid Propellant Combustion. <i>Applied Spectroscopy</i> , 2014, 68, 362-366.	2.2	24
3	Hydrogen alpha laser ablation plasma diagnostics. <i>Optics Letters</i> , 2015, 40, 3436.	3.3	23
4	Laser-Plasma Spatiotemporal Cyanide Spectroscopy and Applications. <i>Molecules</i> , 2020, 25, 615.	3.8	15
5	Aluminum Monoxide Emission Measurements in a Laser-Induced Plasma. <i>Applied Spectroscopy</i> , 2014, 68, 992-996.	2.2	14
6	Electron density determination of aluminium laser-induced plasma. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 115701.	1.5	13
7	Laser-Plasma Spectroscopy of Hydroxyl with Applications. <i>Molecules</i> , 2020, 25, 988.	3.8	11
8	Effects of Laser Beam Focusing Characteristics on Laser-Induced Breakdown Spectra. <i>Applied Spectroscopy</i> , 2021, 75, 127-136.	2.2	10
9	Asymmetric hydrogen beta electron density diagnostics of laser-induced plasma. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 28-33.	2.9	9
10	Laser plasma diagnostics and self-absorption measurements of the H β Balmer series line. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 170, 189-193.	2.3	8
11	Simulated laser-induced breakdown spectra of graphite and synthetic shergottite glass under Martian conditions. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 148, 31-43.	2.9	7
12	Measurements of ultra-violet titanium lines in laser-ablation plasma. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 15-19.	2.9	6
13	Measurement and Analysis of Atomic Hydrogen and Diatomic Molecular AlO, C β , CN, and TiO Spectra Following Laser-induced Optical Breakdown. <i>Journal of Visualized Experiments</i> , 2014, , e51250.	0.3	4
14	Spatial Molecular AlO Temperature Distributions in Laser-Induced Plasma. <i>Atoms</i> , 2019, 7, 86.	1.6	4
15	Comment on "Hydrogen Balmer beta: The separation between line peaks for plasma electron density diagnostics and self-absorption test". <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 160, 19-21.	2.3	3
16	Uncertainty of Integrated Intensity Following Line Profile Fitting of Multiline Spectra. <i>Applied Spectroscopy</i> , 2018, 72, 787-792.	2.2	1
17	Tracking Temporal Development of Optical Thickness of Hydrogen Alpha Spectral Radiation in a Laser-Induced Plasma. <i>Atoms</i> , 2019, 7, 101.	1.6	0
18	Molecular laser-induced breakdown spectroscopy. , 2020, , 167-209.		0