

# David M Surmick

## List of Publications by Year in descending order

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times ranked

259  
citing authors

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