

Emmanuel A Lalla

List of Publications by Year in descending order

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34
papers

849
citations

687363

13
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477307

29
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36
all docs

36
docs citations

36
times ranked

828
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopic study of terrestrial analogues to support rover missions to Mars – A Raman-centred review. <i>Analytica Chimica Acta</i> , 2022, 1209, 339003.	5.4	12
2	Analytical database of Martian minerals (ADaMM): Project synopsis and Raman data overview. <i>Journal of Raman Spectroscopy</i> , 2022, 53, 364-381.	2.5	7
3	The Raman laser spectrometer ExoMars simulator (RLS Sim): A heavy-duty Raman tool for ground testing on ExoMars. <i>Journal of Raman Spectroscopy</i> , 2022, 53, 382-395.	2.5	8
4	Raman Characterization of the CanMars Rover Field Campaign Samples Using the Raman Laser Spectrometer ExoMars Simulator: Implications for Mars and Planetary Exploration. <i>Astrobiology</i> , 2022, , .	3.0	3
5	Elemental estimation of terrestrial analogues from the CanMars rover field campaign using LiRS: Implications for detecting silica-rich deposits on Mars. <i>Icarus</i> , 2021, 358, 114113.	2.5	7
6	Structural and vibrational analyses of CePO ₄ synthetic monazite samples under an optimized precipitation process. <i>Journal of Molecular Structure</i> , 2021, 1223, 129150.	3.6	8
7	ExoMars Raman Laser Spectrometer: A Tool to Semiquantify the Serpentinization Degree of Olivine-Rich Rocks on Mars. <i>Astrobiology</i> , 2021, 21, 307-322.	3.0	13
8	Remote science activities during the AMADEE-18 Mars analog mission: Preparation and execution during a simulated planetary surface mission. <i>Journal of Space Safety Engineering</i> , 2021, 8, 75-85.	0.9	2
9	Combined Spectroscopic Analysis of Terrestrial Analogs from a Simulated Astronaut Mission Using the Laser-Induced Breakdown Spectroscopy (LIBS) Raman Sensor: Implications for Mars. <i>Applied Spectroscopy</i> , 2021, 75, 1093-1113.	2.2	8
10	UV Time-Resolved Laser-Induced Fluorescence Spectroscopy of Amino Acids Found in Meteorites: Implications for Space Science and Exploration. <i>Astrobiology</i> , 2021, 21, 1350-1362.	3.0	4
11	Statistical learning for the estimation of Judd-Ofelt parameters: A case study of Er ³⁺ : Doped tellurite glasses. <i>Journal of Luminescence</i> , 2021, 235, 118020.	3.1	4
12	Raman-IR Spectroscopic Structural Analysis of Rare-Earth (RE ³⁺) Doped Fluorotellurite Glasses at different laser wavelengths. <i>Vibrational Spectroscopy</i> , 2020, 106, 103020.	2.2	11
13	Clinical anisotropy: A case for shared decision making in the age of too much data and patient disintegration. <i>Journal of Evaluation in Clinical Practice</i> , 2020, 26, 604-609.	1.8	2
14	Judd-Ofelt parameters of RE ³⁺ -doped fluorotellurite glass (RE ³⁺ = Pr ³⁺ , Nd ³⁺ , Sm ³⁺ , Tb ³⁺ , Dy ³⁺ , Ho ³⁺), <i>Tj ETQq0,0,0 rgBT / Overlock 1</i>	3.5	40
15	UV laser-induced fluorescence spectroscopy as a non-destructive technique for mineral and organic detection in carbonaceous chondrites. <i>Meteoritics and Planetary Science</i> , 2020, 55, 2287-2300.	1.6	6
16	Laboratory Analysis of Returned Samples from the AMADEE-18 Mars Analog Mission. <i>Astrobiology</i> , 2020, 20, 1303-1320.	3.0	10
17	ExoMars Raman Laser Spectrometer (RLS): development of chemometric tools to classify ultramafic igneous rocks on Mars. <i>Scientific Reports</i> , 2020, 10, 16954.	3.3	22
18	Raman characterization of terrestrial analogs from the AMADEE-18 astronaut simulated mission using the ExoMars RLS simulator: Implications for Mars. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 2525-2535.	2.5	5

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19	Raman Laser Spectrometer (RLS) calibration target design to allow onboard combined science between the RLS and MicrOmega instruments on the ExoMars rover. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1718-1730.	2.5	19
20	The AMADEE-18 Mars Analog Expedition in the Dhofar Region of Oman. <i>Astrobiology</i> , 2020, 20, 1276-1286.	3.0	11
21	On the application of a novel linear mixture model on laser-induced breakdown spectroscopy: Implications for Mars. <i>Journal of Chemometrics</i> , 2019, 33, e3174.	1.3	10
22	Synthesis, luminescence, and electrical properties of Na ₆ Mg(SO ₄) ₄ :xEu vanthoffite ceramics as electrode materials for sodium ion batteries. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 247, 114384.	3.5	6
23	Biosignature detection by Mars rover equivalent instruments in samples from the CanMars Mars Sample Return Analogue Deployment. <i>Planetary and Space Science</i> , 2019, 176, 104683.	1.7	17
24	Polarized Raman analyzes of (RE ₃ ⁺) doped fluorotellurite glass and ceramics. <i>Vibrational Spectroscopy</i> , 2019, 103, 102934.	2.2	6
25	A micro-Raman and X-ray study of erupted submarine pyroclasts from El Hierro (Spain) and its' astrobiological implications. <i>Life Sciences in Space Research</i> , 2019, 21, 49-64.	2.3	7
26	Combined vibrational, structural, elemental and Mössbauer spectroscopic analysis of natural phillipsite (zeolite) from historical eruptions in Tenerife, Canary Islands: Implication for Mars. <i>Vibrational Spectroscopy</i> , 2019, 101, 10-19.	2.2	8
27	Optical temperature sensor based on Sm ³⁺ emissions in a fluorotellurite glass. <i>Optical Fiber Technology</i> , 2019, 47, 178-186.	2.7	20
28	Raman-IR vibrational and XRD characterization of ancient and modern mineralogy from volcanic eruption in Tenerife Island: Implication for Mars. <i>Geoscience Frontiers</i> , 2016, 7, 673-681.	8.4	16
29	Raman-Mössbauer-XRD studies of selected samples from Los Azulejos outcrop: A possible analogue for assessing the alteration processes on Mars. <i>Advances in Space Research</i> , 2016, 57, 2385-2395.	2.6	18
30	Nd ³⁺ -doped TeO ₂ -PbF ₂ -AlF ₃ glasses for laser applications. <i>Optical Materials</i> , 2016, 51, 35-41.	3.6	53
31	Optical temperature sensor based on the Nd ³⁺ infrared thermalized emissions in a fluorotellurite glass. <i>Journal of Luminescence</i> , 2015, 166, 209-214.	3.1	38
32	Effects of Er ³⁺ concentration on thermal sensitivity in optical temperature fluorotellurite glass sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 1167-1175.	7.8	137
33	Optical characterization, 1.514μm emission and IR-to-visible energy upconversion in Er ³⁺ -doped fluorotellurite glasses. <i>Journal of Luminescence</i> , 2011, 131, 1239-1248.	3.1	66
34	Temperature sensor based on the Er ³⁺ green upconverted emission in a fluorotellurite glass. <i>Sensors and Actuators B: Chemical</i> , 2011, 158, 208-213.	7.8	245