

# Susana E Jorge-Villar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7983462/publications.pdf>

Version: 2024-02-01

65  
papers

2,247  
citations

172457

29  
h-index

223800

46  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2369  
citing authors

#	ARTICLE	IF	CITATIONS
1	FT-Raman spectroscopic study of calcium-rich and magnesium-rich carbonate minerals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 2273-2280.	3.9	192
2	Raman spectroscopy in astrobiology. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 100-113.	3.7	144
3	Raman spectroscopic detection of key biomarkers of cyanobacteria and lichen symbiosis in extreme Antarctic habitats: Evaluation for Mars Lander missions. <i>Icarus</i> , 2005, 174, 560-571.	2.5	131
4	Microbial colonization of halite from the hyper-arid Atacama Desert studied by Raman spectroscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 3205-3221.	3.4	111
5	Variations of algal communities cause darkening of a Greenland glacier. <i>FEMS Microbiology Ecology</i> , 2014, 89, 402-414.	2.7	108
6	Raman spectroscopic analysis of cyanobacterial gypsum halotrophs and relevance for sulfate deposits on Mars. <i>Analyst, The</i> , 2005, 130, 917.	3.5	84
7	Raman spectroscopic analysis of pigments from dynastic Egyptian funerary artefacts. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 786-795.	2.5	62
8	Identification of Morphological Biosignatures in Martian Analogue Field Specimens Using <i>In Situ</i> Planetary Instrumentation. <i>Astrobiology</i> , 2008, 8, 119-156.	3.0	62
9	Raman spectroscopy of endoliths from Antarctic cold desert environments. <i>Analyst, The</i> , 2005, 130, 156.	3.5	57
10	Spanish mediaeval frescoes at Basconcillos del Tozo: a Fourier transform Raman spectroscopic study. <i>Journal of Raman Spectroscopy</i> , 1999, 30, 307-311.	2.5	56
11	Destruction of Raman biosignatures by ionising radiation and the implications for life detection on Mars. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 131-144.	3.7	56
12	The Rio Tinto Mars Analogue site: An extremophilic Raman spectroscopic study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 68, 1133-1137.	3.9	52
13	Analytical Raman spectroscopic study of cacao seeds and their chemical extracts. <i>Analytica Chimica Acta</i> , 2005, 538, 175-180.	5.4	51
14	Raman spectroscopic and scanning electron microscopic analysis of a novel biological colonisation of volcanic rocks. <i>Icarus</i> , 2006, 184, 158-169.	2.5	47
15	Morphological biosignatures from relict fossilised sedimentary geological specimens: a Raman spectroscopic study. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 1352-1361.	2.5	45
16	Raman spectroscopy of hot desert, high altitude epilithic lichens. <i>Analyst, The</i> , 2005, 130, 730.	3.5	43
17	Romano-British wall-paintings II: Raman spectroscopic analysis of two villa sites at Nether Heyford, Northants. <i>Analytica Chimica Acta</i> , 2003, 484, 211-221.	5.4	40
18	An extensive colour palette in Roman villas in Burgos, Northern Spain: a Raman spectroscopic analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 283-289.	3.7	39

#	ARTICLE	IF	CITATIONS
19	Biological modification of haematite in Antarctic cryptoendolithic communities. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 470-474.	2.5	38
20	Raman spectroscopic analysis of cyanobacterial colonization of hydromagnesite, a putative martian extremophile. <i>Icarus</i> , 2005, 175, 372-381.	2.5	37
21	Comparative Evaluation Of Raman Spectroscopy At Different Wavelengths For Extremophile Exemplars. <i>Origins of Life and Evolution of Biospheres</i> , 2005, 35, 489-506.	1.9	37
22	Ancient biodeterioration: an FT-Raman spectroscopic study of mammoth and elephant ivory. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 383, 713-720.	3.7	34
23	Raman microspectroscopic studies of amber resins with insect inclusions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 68, 1089-1095.	3.9	34
24	Lichen colonization of an active volcanic environment: a Raman spectroscopic study of extremophile biomolecular protective strategies. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 63-67.	2.5	34
25	Raman spectroscopic and structural studies of indigo and its four 6,6-dihalogeno analogues. <i>Analyst</i> , 2004, 129, 613-618.	3.5	32
26	Raman spectroscopy of volcanic lavas and inclusions of relevance to astrobiological exploration. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 3127-3135.	3.4	32
27	Using a Mini-Raman Spectrometer to Monitor the Adaptive Strategies of Extremophile Colonizers in Arid Deserts: Relationships Between Signal Strength, Adaptive Strategies, Solar Radiation, and Humidity. <i>Astrobiology</i> , 2012, 12, 743-753.	3.0	32
28	Nondestructive analysis of ancient Egyptian funerary relics by Raman spectroscopic techniques. <i>Analytica Chimica Acta</i> , 2004, 503, 223-233.	5.4	31
29	Lichen biodeterioration of ecclesiastical monuments in northern Spain. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004, 60, 1229-1237.	3.9	30
30	Raman spectroscopy of natron: shedding light on ancient Egyptian mummification. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 683-689.	3.7	27
31	Raman spectroscopic study of amorphous and crystalline hydrocarbons from soils, peats and lignite. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 2390-2398.	3.9	26
32	Raman and SEM analysis of a biocolonised hot spring travertine terrace in Svalbard, Norway. <i>Geochemical Transactions</i> , 2007, 8, 8.	0.7	26
33	Raman spectroscopic analysis of mediaeval wall paintings in the Palencia region, Spain. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 1078-1085.	2.5	25
34	Raman spectroscopy of desert varnishes and their rock substrata. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 475-479.	2.5	24
35	Raman spectroscopic study of the complex aromatic mineral idrialite. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 771-776.	2.5	24
36	Raman spectroscopic study of mellite—a naturally occurring aluminium benzenehexacarboxylate from lignite—Claystone series of the tertiary age. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 65, 229-234.	3.9	23

#	ARTICLE	IF	CITATIONS
37	Raman Microscopy of a Mediaeval Spanish Cantoral. <i>Applied Spectroscopy</i> , 1999, 53, 1436-1439.	2.2	20
38	Raman spectroscopy of sediments from the Antarctic Dry Valleys; an analogue study for exploration of potential paleolakes on Mars. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 458-462.	2.5	19
39	Microorganism Response to Stressed Terrestrial Environments: A Raman Spectroscopic Perspective of Extremophilic Life Strategies. <i>Life</i> , 2013, 3, 276-294.	2.4	19
40	Near-infrared Raman spectra of terrestrial minerals: relevance for the remote analysis of Martian spectral signatures. <i>Vibrational Spectroscopy</i> , 2005, 39, 88-94.	2.2	18
41	Raman spectroscopy detection of biomolecules in biocrusts from differing environmental conditions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 171, 40-51.	3.9	18
42	V-RICH MINERALS IN CONTACT-METAMORPHOSED SILURIAN SEDEX DEPOSITS IN THE POBLET AREA, SOUTHWESTERN CATALONIA, SPAIN. <i>Canadian Mineralogist</i> , 2003, 41, 561-579.	1.0	17
43	Combined FT-Raman spectroscopic and mass spectrometric study of ancient Egyptian sarcophagal fragments. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 829-836.	3.7	16
44	FT-Raman spectroscopic analysis of an Antarctic endolith. <i>International Journal of Astrobiology</i> , 2002, 1, 349-355.	1.6	15
45	Raman spectroscopy of natural accumulated paraffins from rocks: Evenkite, ozokerite and hatchetine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 68, 1143-1148.	3.9	15
46	Raman spectroscopy study of lichens using three spectrometers under different experimental conditions: analyses of the results with relevance for extraplanetary exploration. <i>Analytical Methods</i> , 2011, 3, 2783.	2.7	15
47	Raman spectroscopic study of the photoprotection of extremophilic microbes against ultraviolet radiation. <i>International Journal of Astrobiology</i> , 2006, 5, 313-318.	1.6	14
48	Green and blue pigments in Roman wall paintings: A challenge for Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 2190-2203.	2.5	14
49	The Servilia tomb: an architecturally and pictorially important Roman building. <i>Archaeological and Anthropological Sciences</i> , 2018, 10, 1207-1223.	1.8	13
50	Machine learning algorithms applied to Raman spectra for the identification of variscite originating from the mining complex of Gavá. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1563-1574.	2.5	13
51	Raman spectroscopy analysis of Palaeolithic industry from Guadalteba terrace river, Campillos (Guadalteba county, Southern of Iberian Peninsula). <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1651-1657.	2.5	12
52	Lichens around the world: a comprehensive study of lichen survival biostrategies detected by Raman spectroscopy. <i>Analytical Methods</i> , 2015, 7, 6856-6868.	2.7	12
53	Combined Raman spectroscopic and Rietveld analyses as a useful and nondestructive approach to studying flint raw materials at prehistoric archaeological sites. <i>Archaeological and Anthropological Sciences</i> , 2015, 7, 235-243.	1.8	11
54	Raman spectroscopic analysis of arctic nodules: relevance to the astrobiological exploration of Mars. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 2927-2933.	3.7	10

#	ARTICLE	IF	CITATIONS
55	PGE-BEARING MINERALS IN SILURIAN SEDEX DEPOSITS IN THE POBLET AREA, SOUTHWESTERN CATALONIA, SPAIN. <i>Canadian Mineralogist</i> , 2003, 41, 581-595.	1.0	7
56	Spectroscopic requirements for Raman instrumentation on a planetary lander: potential for the remote detection of biosignatures on Mars. <i>International Journal of Astrobiology</i> , 2004, 3, 165-174.	1.6	7
57	Raman spectroscopic analysis of the effect of the lichenicolous fungus <i>Xanthoriicola physciae</i> on its lichen host. <i>Symbiosis</i> , 2017, 71, 57-63.	2.3	7
58	Lichen biomarkers upon heating: a Raman spectroscopic study with implications for extra-terrestrial exploration. <i>International Journal of Astrobiology</i> , 2017, 16, 74-81.	1.6	6
59	Biogeological Raman spectroscopic studies of Antarctic lacustrine sediments. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 2413-2417.	3.9	5
60	Forensic Archaeometry Applied to Antiquities Trafficking: The Beginnings of an Investigation at the Frontiers of Knowledge. <i>Arts</i> , 2018, 7, 98.	0.3	5
61	Critical Elements in Supergene Phosphates: The Example of the Weathering Profile at the Gavã Neolithic Mines, Catalonia, Spain. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 3.	2.0	4
62	Combined study of archaeomagnetism and Raman spectroscopy of experimentally burnt limestones from the middle-palaeolithic site of Pinilla del Valle (Madrid, Spain). <i>Boletín De La Sociedad Geológica Mexicana</i> , 2019, 71, 383-396.	0.3	4
63	Geochemical and spectroscopic approach to the characterization of earliest cremated human bones from the Levant (PPNB of Kharaysin, Jordan). <i>Journal of Archaeological Science: Reports</i> , 2020, 30, 102211.	0.5	3
64	Colours of Gemmy Phosphates from the Gavã Neolithic Mines (Catalonia, Spain): Origin and Archaeological Significance. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 368.	2.0	2
65	Raman spectroscopic studies of a 13th century polychrome statue: identification of a "forgotten" pigment. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 407-413.	2.5	0