Howell Edwards

List of Publications by Year
in descending order

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314 papers	10,892 citations	28274 55 h-index	56724 83 g-index
369 all docs	369 docs citations	369 times ranked	7678 citing authors

#	Article	IF	Citations
1	A Decade of Raman Spectroscopy in Art and Archaeology. Chemical Reviews, 2007, 107, 675-686.	47.7	321
2	FT Raman microscopy of untreated natural plant fibres. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1997, 53, 2383-2392.	3.9	279
3	Raman spectra of carotenoids in natural products. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 2207-2212.	3.9	247
4	Carotenes and carotenoids in natural biological samples: a Raman spectroscopic analysis. Journal of Raman Spectroscopy, 2010, 41, 642-650.	2.5	204
5	FTâ€“Raman spectroscopic study of calcium-rich and magnesium-rich carbonate minerals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 2273-2280.	3.9	192
6	Understanding the Application of Raman Spectroscopy to the Detection of Traces of Life. Astrobiology, 2010, 10, 229-243.	3.0	167
7	Antarctic ecosystems as models for extraterrestrial surface habitats. Planetary and Space Science, 2000, 48, 1065-1075.	1.7	157
8	Raman spectroscopy in astrobiology. Analytical and Bioanalytical Chemistry, 2006, 384, 100-113.	3.7	144
9	Raman Spectroscopy of Microbial Pigments. Applied and Environmental Microbiology, 2014, 80, 3286-3295.	3.1	140
10	Analysis of seized drugs using portable Raman spectroscopy in an airport environmentâ€”a proof of principle study. Journal of Raman Spectroscopy, 2008, 39, 873-880.	2.5	139
11	Comparative study of mobile Raman instrumentation for art analysis. Analytica Chimica Acta, 2007, 588, 108-116.	5.4	138
12	The detection of drugs of abuse in fingerprints using Raman spectroscopy I: latent fingerprints. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 563-568.	3.9	132
13	Raman spectroscopic detection of key biomarkers of cyanobacteria and lichen symbiosis in extreme Antarctic habitats: Evaluation for Mars Lander missions. Icarus, 2005, 174, 560-571.	2.5	131
14	The detection of drugs of abuse in fingerprints using Raman spectroscopy II: cyanoacrylate-fumed fingerprints. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 1725-1730.	3.9	122
15	Raman spectroscopic analysis of pigments and substrata in prehistoric rock art. Journal of Molecular Structure, 2000, 550-551, 245-256.	3.6	115
16	A novel miniature confocal microscope/Raman spectrometer system for biomolecular analysis on future Mars missions after Antarctic trials. Journal of Raman Spectroscopy, 2000, 31, 633-635.	2.5	114
17	In-process vibrational spectroscopy and ultrasound measurements in polymer melt extrusion. Polymer, 2003, 44, 5937-5949.	3.8	113
18	Limits of Life and the Habitability of Mars: The ESA Space Experiment BIOMEX on the ISS. Astrobiology, 2019, 19, 145-157.	3.0	111

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19	Application of portable Raman instruments for fast and non-destructive detection of minerals on outcrops. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 73, 410-419.	3.9	99
20	Pigmentation as a survival strategy for ancient and modern photosynthetic microbes under high ultraviolet stress on planetary surfaces. International Journal of Astrobiology, 2002, 1, 39-49.	1.6	98
21	Evaluation of portable Raman spectrometer with 1064 nm excitation for geological and forensic applications. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 86, 320-327.	3.9	94
22	Fourier-transform Raman spectroscopic study of natural waxes and resins. I. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1996, 52, 1639-1648.	3.9	92
23	Bacterioruberin and salinixanthin carotenoids of extremely halophilic Archaea and Bacteria: A Raman spectroscopic study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 106, 99-103.	3.9	87
24	Raman and FTIR microspectroscopic study of the alteration of Chinese tung oil and related drying oils during ageing. Analytical and Bioanalytical Chemistry, 2011, 400, 1173-1180.	3.7	86
25	Vibrational Raman spectroscopic study of scytonemin, the UV-protective cyanobacterial pigment. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2000, 56, 193-200.	3.9	85
26	Raman spectroscopic analysis of cyanobacterial gypsum halotrophs and relevance for sulfate deposits on Mars. Analyst, The, 2005, 130, 917.	3.5	84
27	A comprehensive microâ€Raman spectroscopic study of prehistoric rock paintings from the Sierra de las Cuerdas, Cuenca, Spain. Journal of Raman Spectroscopy, 2008, 39, 972-984.	2.5	81
28	Fourier-transform Raman spectroscopy of ivory: II. Spectroscopic analysis and assignments. Journal of Molecular Structure, 1997, 435, 49-58.	3.6	78
29	FT-Raman spectrum of cotton: a polymeric biomolecular analysis. Spectrochimica Acta Part A: Molecular Spectroscopy, 1994, 50, 807-811.	0.1	76
30	Fast detection of sulphate minerals (gypsum, anglesite, baryte) by a portable Raman spectrometer. Journal of Raman Spectroscopy, 2009, 40, 1082-1086.	2.5	74
31	The Miniaturized Raman System and Detection of Traces of Life in Halite from the Atacama Desert: Some Considerations for the Search for Life Signatures on Mars. Astrobiology, 2012, 12, 1095-1099.	3.0	74
32	Potential applications of FT-Raman spectroscopy for dermatological diagnostics. Journal of Molecular Structure, 1995, 347, 379-387.	3.6	73
33	Fourier-transform Raman spectroscopic study of unsaturated and saturated waxes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1997, 53, 2685-2694.	3.9	73
34	The ExoMars Raman spectrometer and the identification of biogeological spectroscopic signatures using a flight-like prototype. Analytical and Bioanalytical Chemistry, 2012, 404, 1723-1731.	3.7	73
35	Fourier-transform Raman spectroscopic study of human hair. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1997, 53, 1021-1031.	3.9	71
36	Raman spectroscopy of sulfonated polystyrene resins. Vibrational Spectroscopy, 2000, 24, 213-224.	2.2	67

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37	Interplanetary Transfer of Photosynthesis: An Experimental Demonstration of A Selective Dispersal Filter in Planetary Island Biogeography. Astrobiology, 2007, 7, 1-9.	3.0	66
38	Diffuse reflection FTIR spectral database of dyes and pigments. Analytical and Bioanalytical Chemistry, 2006, 386, 2183-2191.	3.7	65
39	Phototrophic Community in Gypsum Crust from the Atacama Desert Studied by Raman Spectroscopy and Microscopic Imaging. Geomicrobiology Journal, 2013, 30, 399-410.	2.0	65
40	Fourier transform-Raman spectroscopy of amber. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1996, 52, 1119-1125.	3.9	64
41	Fourier-transform Raman spectroscopy of mammalian and avian keratotic biopolymers. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1997, 53, 81-90.	3.9	64
42	Minium; FT-Raman non-destructive analysis applied to an historical controversy. Analyst, The, 1999, 124, 1323-1326.	3.5	64
43	Raman spectroscopy as a tool for the non-destructive identification of organic minerals in the geological record. Organic Geochemistry, 2008, 39, 371-386.	1.8	64
44	Identification of Î²-carotene in an evaporitic matrixâ€”evaluation of Raman spectroscopic analysis for astrobiological research on Mars. Analytical and Bioanalytical Chemistry, 2009, 393, 1967-1975.	3.7	64
45	Raman spectra of oxalates in lichen encrustations on Renaissance frescoes. Spectrochimica Acta Part A: Molecular Spectroscopy, 1991, 47, 1531-1539.	0.1	63
46	Critical evaluation of a handheld Raman spectrometer with near infrared (785 nm) excitation for field identification of minerals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 80, 36-40.	3.9	63
47	Raman spectroscopic analysis of pigments from dynastic Egyptian funerary artefacts. Journal of Raman Spectroscopy, 2004, 35, 786-795.	2.5	62
48	Identification of Morphological Biosignatures in Martian Analogue Field Specimens Using In Situ Planetary Instrumentation. Astrobiology, 2008, 8, 119-156.	3.0	62
49	Raman spectroscopic studies of a 13th century polychrome statue: identification of a ?forgotten? pigment. Journal of Raman Spectroscopy, 2000, 31, 407-413.	2.5	61
50	Potential and limits of Raman spectroscopy for carotenoid detection in microorganisms: implications for astrobiology. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140199.	3.4	61
51	FT-Raman spectroscopic analysis of endolithic microbial communities from Beacon sandstone in Victoria Land, Antarctica. Antarctic Science, 1998, 10, 63-74.	0.9	60
52	FT-Raman spectroscopy of gums of technological significance. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1998, 54, 903-920.	3.9	59
53	Fourier transform-Raman spectroscopic study of natural resins of archaeological interest. Biopolymers, 2002, 67, 129-141.	2.4	59
54	FT-Raman and infrared spectroscopic study of aragonite-strontianite (CaxSr1 â^' xCO3) solid solution. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1997, 53, 2347-2362.	3.9	57

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55	Raman spectroscopy of endoliths from Antarctic cold desert environments. Analyst, The, 2005, 130, 156.	3.5	57
56	The conservational heritage of wall paintings and buildings : an FTâ€Raman spectroscopic study of prehistoric, Roman, mediaeval and Renaissance lime substrates and mortars. Journal of Raman Spectroscopy, 2008, 39, 985-992.	2.5	57
57	Raman Spectroscopic Analysis of Geological and Biogeological Specimens of Relevance to the ExoMars Mission. Astrobiology, 2013, 13, 543-549.	3.0	57
58	Destruction of Raman biosignatures by ionising radiation and the implications for life detection on Mars. Analytical and Bioanalytical Chemistry, 2012, 403, 131-144.	3.7	56
59	A critical comparison of some Raman spectroscopic techniques for studies of human stratum corneum. Pharmaceutical Research, 1993, 10, 1642-1647.	3.5	55
60	Comparative FT-Raman spectroscopy of Xanthoria lichen-substratum systems from temperate and antarctic habitats. Soil Biology and Biochemistry, 1998, 30, 1947-1953.	8.8	55
61	Preliminary Raman microscopic analyses of a lichen encrustation involved in the biodeterioration of renaissance frescoes in Central Italy. International Biodeterioration, 1991, 27, 1-9.	0.2	54
62	The role of Raman spectroscopy as an astrobiological tool in the exploration of Mars. Journal of Raman Spectroscopy, 2004, 35, 441-457.	2.5	54
63	Assessment of Raman spectroscopy as a tool for the non-destructive identification of organic minerals and biomolecules for Mars studies. Planetary and Space Science, 2009, 57, 606-613.	1.7	54
64	On the definition of Raman spectroscopic detection limits for the analysis of biomarkers in solid matrices. Planetary and Space Science, 2012, 62, 48-54.	1.7	54
65	Ivory and simulated ivory artefacts: Fourier transform Raman diagnostic study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1995, 51, 2073-2081.	3.9	53
66	Acquisition of Raman spectra of amino acids using portable instruments: Outdoor measurements and comparison. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 77, 978-983.	3.9	53
67	Comparative Raman microscopy of a Martian meteorite and Antarctic lithic analogues. Planetary and Space Science, 1999, 47, 353-362.	1.7	52
68	Raman spectroscopy of different types of Mexican copal resins. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 2221-2229.	3.9	52
69	Probing history with Raman spectroscopy. Analyst, The, 2004, 129, 870.	3.5	52
70	The Rio Tinto Mars Analogue site: An extremophilic Raman spectroscopic study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 68, 1133-1137.	3.9	52
71	Biomarkers and their Raman spectroscopic signatures: a spectral challenge for analytical astrobiology. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140193.	3.4	52
72	Analytical Raman spectroscopic study of cacao seeds and their chemical extracts. Analytica Chimica Acta, 2005, 538, 175-180.	5.4	51

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73	Anataseâ€"a pigment in ancient artwork or a modern usurper?. Analytical and Bioanalytical Chemistry, 2006, 384, 1356-1365.	3.7	51
74	Fourier transform Raman spectroscopy: evaluation as a non-destructive technique for studying the degradation of human hair from archaeological and forensic environments. Journal of Raman Spectroscopy, 1999, 30, 367-373.	2.5	50
75	Raman spectroscopy of the Dukhan sabkha: identification of geological and biogeological molecules in an extreme environment. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 3099-3107.	3.4	50
76	Environmental UV Radiation: Biological Strategies for Protection and Avoidance. , 2002, , 245-260.		50
77	Lichen biodeterioration under different microclimates: an FT Raman spectroscopic study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1995, 51, 2091-2100.	3.9	49
78	Raman Spectroscopic Protocol for the Molecular Recognition of Key Biomarkers in Astrobiological Exploration. Origins of Life and Evolution of Biospheres, 2004, 34, 3-11.	1.9	49
79	Diagnostic Raman spectroscopy for the forensic detection of biomaterials and the preservation of cultural heritage. Analytical and Bioanalytical Chemistry, 2005, 382, 1398-1406.	3.7	49
80	NIR-FT-Raman spectroscopic analytical characterization of the fruits, seeds, and phytotherapeutic oils from rosehips. Analytical and Bioanalytical Chemistry, 2008, 392, 1489-1496.	3.7	49
81	Raman spectroscopy and security applications: the detection of explosives and precursors on clothing. Journal of Raman Spectroscopy, 2009, 40, 2009-2014.	2.5	49
82	FT-Raman spectroscopic investigation of a pseudopolymorphic transition in caffeine hydrate. Journal of Molecular Structure, 1998, 440, 97-104.	3.6	48
83	FT-Raman spectroscopy of lichens on dolomitic rocks: an assessment of metal oxalate formation. Analyst, The, 2003, 128, 1218.	3.5	48
84	The Nature of a Whewellite-Rich Rock Crust Associated with Pictographs in Southwestern Texas. Studies in Conservation, 1999, 44, 91.	1.1	46
85	Fourier-transform Raman characterization of brazilwood trees and substitutes. Analyst, The, 2003, 128, 82-87.	3.5	46
86	Raman spectroscopic analysis of dragon's blood resinsâ€"basis for distinguishing between Dracaena (Convallariaceae), Daemonorops (Palmae) and Croton (Euphorbiaceae). Analyst, The, 2004, 129, 134-138.	3.5	46
87	Morphological biosignatures from relict fossilised sedimentary geological specimens: a Raman spectroscopic study. Journal of Raman Spectroscopy, 2007, 38, 1352-1361.	2.5	45
88	A Raman spectroscopic study of a fulgurite. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 3087-3097.	3.4	45
89	Analysis of the rock accretions in the lower pecos region of southwest texas. Geoarchaeology - an International Journal, 1995, 10, 43-63.	1.5	44
90	The effect of laser wavelength on the Raman Spectra of phenanthrene, chrysene, and tetracene: Implications for extra-terrestrial detection of polyaromatic hydrocarbons. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 76, 1-5.	3.9	44

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91	Comparison of Fourier transform Raman spectra of mammalian and reptilian skin. Analyst, The, 1994, 119, 563.	3.5	43
92	Caput mortuum: spectroscopic and structural studies of an ancient pigment. Analyst, The, 2002, 127, 536-541.	3.5	43
93	Raman spectroscopic analysis of an English soft-paste porcelain plaque-mounted table. Journal of Raman Spectroscopy, 2004, 35, 656-661.	2.5	43
94	Raman spectroscopy of hot desert, high altitude epilithic lichens. Analyst, The, 2005, 130, 730.	3.5	43
95	Ab initio calculations of scytonemin derivatives of relevance to extremophile characterization by Raman spectroscopy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 3193-3203.	3.4	43
96	Raman spectroscopic approach to analytical astrobiology: the detection of key geological and biomolecular markers in the search for life. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 3059-3065.	3.4	43
97	Raman spectra of pure biomolecules obtained using a handheld instrument under cold high-altitude conditions. Analytical and Bioanalytical Chemistry, 2010, 397, 2753-2760.	3.7	43
98	On the interpretation of the Raman spectra of Maya Blue: a review on the literature data. Journal of Raman Spectroscopy, 2011, 42, 86-96.	2.5	42
99	A spectroscopy and isotope study of sediments from the Antarctic Dry Valleys as analogues for potential paleolakes on Mars. International Journal of Astrobiology, 2003, 2, 273-287.	1.6	41
100	Raman spectroscopic investigation of cocaine hydrochloride on human nail in a forensic context. Analytical and Bioanalytical Chemistry, 2008, 390, 1159-1166.	3.7	41
101	Fourier-transform Raman spectra of ivory III: identification of mammalian specimens. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1997, 53, 2403-2409.	3.9	40
102	Romano-British wall-paintings II: Raman spectroscopic analysis of two villa sites at Nether Heyford, Northants. Analytica Chimica Acta, 2003, 484, 211-221.	5.4	40
103	Raman spectroscopic characterisations and analytical discrimination between caffeine and demethylated analogues of pharmaceutical relevance. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 1453-1459.	3.9	40
104	Application of FT-Raman spectroscopy to the characterisation of parchment and vellum, I; novel information for paleographic and historiated manuscript studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 1223-1234.	3.9	39
105	Romano-British wall-painting fragments: a spectroscopic analysis. Analyst, The, 2002, 127, 277-281.	3.5	39
106	Detection of explosives on human nail using confocal Raman microscopy. Journal of Raman Spectroscopy, 2009, 40, 144-149.	2.5	39
107	Analytical Raman spectroscopic discrimination between yellow pigments of the Renaissance. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 80, 14-20.	3.9	39
108	Raman spectroscopic detection of biomolecular markers from Antarctic materials: evaluation for putative Martian habitats. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 2277-2290.	3.9	38

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109	Biological modification of haematite in Antarctic cryptoendolithic communities. Journal of Raman Spectroscopy, 2004, 35, 470-474.	2.5	38
110	Non-destructive analysis of pigments and other organic compounds in lichens using Fourier-transform Raman spectroscopy: a study of Antarctic epilithic lichens. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 2301-2309.	3.9	37
111	Novel spectroscopic deconvolution procedure for complex biological systems: vibrational components in the FT-Raman spectra of ice-man and contemporary skin. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 3883.	1.7	36
112	Raman spectroscopic analysis of a unique linen artefact: theHMS Victory Trafalgar sail. Journal of Raman Spectroscopy, 2006, 37, 1193-1200.	2.5	36
113	Raman spectroscopic studies of acid dissociation in sulfonated polystyrene resins. Journal of Molecular Structure, 2001, 595, 111-125.	3.6	35
114	Ancient biodeterioration: an FTâ€“Raman spectroscopic study of mammoth and elephant ivory. Analytical and Bioanalytical Chemistry, 2005, 383, 713-720.	3.7	34
115	Raman microspectroscopic studies of amber resins with insect inclusions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 68, 1089-1095.	3.9	34
116	Lichen colonization of an active volcanic environment: a Raman spectroscopic study of extremophile biomolecular protective strategies. Journal of Raman Spectroscopy, 2010, 41, 63-67.	2.5	34
117	In situ detection of cocaine hydrochloride in clothing impregnated with the drug using benchtop and portable Raman spectroscopy. Journal of Raman Spectroscopy, 2010, 41, 938-943.	2.5	34
118	The rotational and rotation-vibrational Raman spectra of HCN and DCN. Journal of Raman Spectroscopy, 1974, 2, 407-421.	2.5	32
119	Protective pigmentation in UVB-screened Antarctic lichens studied by Fourier transform Raman spectroscopy: an extremophile bioresponse to radiation stress. Journal of Raman Spectroscopy, 2004, 35, 463-469.	2.5	32
120	Comparison of near infrared laser excitation wavelengths and its influence on the interrogation of seized drugsâ€•â€•abuse by Raman spectroscopy. Journal of Raman Spectroscopy, 2009, 40, 1974-1983.	2.5	32
121	Raman spectroscopy of volcanic lavas and inclusions of relevance to astrobiological exploration. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 3127-3135.	3.4	32
122	FT-Raman spectroscopic study of organic residues from 2300-year-old Vietnamese burial jars. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1997, 53, 2373-2382.	3.9	31
123	Application of Fourier transform Raman spectroscopy to the characterization of parchment and vellum. IIâ€”Effect of biodeterioration and chemical deterioration on spectral interpretation. Journal of Raman Spectroscopy, 2004, 35, 754-760.	2.5	31
124	Nondestructive analysis of ancient Egyptian funerary relics by Raman spectroscopic techniques. Analytica Chimica Acta, 2004, 503, 223-233.	5.4	31
125	Practical Considerations for the Field Application of Miniaturized Portable Raman Instrumentation for the Identification of Minerals. Applied Spectroscopy, 2013, 67, 767-778.	2.2	31
126	Study of carotenoids in cyanobacteria by Raman spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 150, 373-380.	3.9	31

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127	Impact shocked rocks as protective habitats on an anoxic early Earth. International Journal of Astrobiology, 2015, 14, 115-122.	1.6	31
128	FT-Raman spectroscopy of avian mummified tissue of archaeological relevance. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1999, 55, 2691-2703.	3.9	30
129	Lichen biodeterioration of ecclesiastical monuments in northern Spain. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 1229-1237.	3.9	30
130	Raman microprobe analysis of stucco samples from the buildings of Maya Classic Copan. Journal of Archaeological Science, 2007, 34, 666-673.	2.4	30
131	FT-Raman spectroscopic studies of metal oxalates and their mixtures. Spectrochimica Acta Part A: Molecular Spectroscopy, 1994, 50, 1891-1898.	0.1	29
132	Near-infrared Fourier transform Raman spectroscopy of skin samples from the ?Tomb of the Two Brothers,? Khnum-Nakht and Nekht-Ankh, XIIth dynasty Egyptian mummies (ca 2000BC). Journal of Raman Spectroscopy, 2003, 34, 375-379.	2.5	29
133	Identification of reddish pigments in octocorals by Raman spectroscopy. Journal of Raman Spectroscopy, 2011, 42, 653-658.	2.5	29
134	Raman spectroscopy on Mars: identification of geological and bio-geological signatures in Martian analogues using miniaturized Raman spectrometers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140204.	3.4	29
135	Raman spectroscopy as tool for the characterization of thio-polyaromatic hydrocarbons in organic minerals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 68, 1065-1069.	3.9	28
136	Raman spectroscopic analysis of a tembetÃ¡: a resin archaeological artefact in need of conservation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 1505-1513.	3.9	27
137	Raman spectroscopy of natron: shedding light on ancient Egyptian mummification. Analytical and Bioanalytical Chemistry, 2007, 388, 683-689.	3.7	27
138	A Raman spectroscopic and combined analytical approach to the restoration of severely damaged frescoes: the Palomino project. Journal of Raman Spectroscopy, 2008, 39, 444-452.	2.5	27
139	Application of portable Raman spectroscopy and benchtop spatially offset Raman spectroscopy to interrogate concealed biomaterials. Journal of Raman Spectroscopy, 2009, 40, 1875-1880.	2.5	27
140	Raman spectroscopic study of amorphous and crystalline hydrocarbons from soils, peats and lignite. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 2390-2398.	3.9	26
141	Life in the sabkha: Raman spectroscopy of halotrophic extremophiles of relevance to planetary exploration. Analytical and Bioanalytical Chemistry, 2006, 385, 46-56.	3.7	26
142	Raman and SEM analysis of a biocolonised hot spring travertine terrace in Svalbard, Norway. Geochemical Transactions, 2007, 8, 8.	0.7	26
143	Fourier-transform Raman spectroscopic study of frankincense and myrrh. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1997, 53, 2393-2401.	3.9	25
144	Raman spectroscopic and SEM study of cinnabar from Herod's palace and its likely origin. Analyst, The, 2002, 127, 293-296.	3.5	25

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145	Raman spectroscopy of desert varnishes and their rock substrata. Journal of Raman Spectroscopy, 2004, 35, 475-479.	2.5	24
146	Raman spectra of organic compounds kladnoite (C6H4(CO)2NH) and hoelite (C14H8O2)â€"Rare sublimation products crystallising on self-ignited coal heaps. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 68, 1053-1057.	3.9	24
147	Identification of the dateâ€rape drug GHB and its precursor GBL by Raman spectroscopy. Drug Testing and Analysis, 2009, 1, 25-31.	2.6	24
148	The detection of biomarkers in evaporite matrices using a portable Raman instrument under Alpine conditions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 80, 8-13.	3.9	24
149	Colour diversification in octocorals based on conjugated polyenes: A Raman spectroscopic view. Journal of Raman Spectroscopy, 2013, 44, 560-566.	2.5	24
150	Raman spectroscopy meets extremophiles on Earth and Mars: studies for successful search of life. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140207.	3.4	24
151	Raman spectroscopy of benzenesulfonic and 4-toluenesulfonic acids dissolved in dimethylsulfoxide. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 1533-1542.	3.9	23
152	Raman spectroscopic analyses of preserved historical specimens of human hair attributed to Robert Stephenson and Sir Isaac Newton. Analyst, The, 2004, 129, 956.	3.5	23
153	Raman spectroscopic study of melliteâ€"A naturally occurring aluminium benzenehexacarboxylate from ligniteâ€"Claystone series of the tertiary age. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 65, 229-234.	3.9	23
154	Romano-British wall paintings: Raman spectroscopic analysis of fragments from two urban sites of early military colonisation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 73, 553-560.	3.9	23
155	Characterization of paint and varnish on a medieval Coptic-Byzantine icon: Novel usage of dammar resin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 73, 566-575.	3.9	23
156	Reduced and oxidised scytonemin: Theoretical protocol for Raman spectroscopic identification of potential key biomolecules for astrobiology. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 117, 72-77.	3.9	23
157	The vibrational spectrum of trifluoromethanesulphonic acid, CF3SO3H, and the determination of its degrees of dissociation in aqueous solution by Raman spectroscopy. Spectrochimica Acta Part A: Molecular Spectroscopy, 1989, 45, 715-719.	0.1	22
158	Raman spectrometric discrimination of flexirubin pigments from two genera ofBacteroidetes. FEMS Microbiology Letters, 2013, 348, 97-102.	1.8	22
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