Craig Marshall

List of Publications by Year
in descending order

41 papers	1,536 citations	361413 20 h-index	302126 39 g-index
41 all docs	41 docs citations	41 times ranked	1615 citing authors

#	Article	IF	Citations
1	Understanding the Application of Raman Spectroscopy to the Detection of Traces of Life. Astrobiology, 2010, 10, 229-243.	3.0	167
2	Structural characterization of kerogen in 3.4Ga Archaean cherts from the Pilbara Craton, Western Australia. Precambrian Research, 2007, 155, 1-23.	2.7	148
3	Carotenoid Analysis of Halophilic Archaea by Resonance Raman Spectroscopy. Astrobiology, 2007, 7, 631-643.	3.0	132
4	Haematite pseudomicrofossils present in the 3.5-billion-year-old Apex Chert. Nature Geoscience, 2011, 4, 240-243.	12.9	98
5	The potential of Raman spectroscopy for the analysis of diagenetically transformed carotenoids. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 3137-3144.	3.4	91
6	Polarized Raman spectra of hematite and assignment of external modes. Journal of Raman Spectroscopy, 2020, 51, 1522-1529.	2.5	78
7	FTIR characterisation of the chemical composition of Silurian miospores (cryptospores and trilete) Tj ETQq1 1 0.784314 rgBT /Overlock	1.5	76
8	Vibrational spectroscopy of extant and fossil microbes: Relevance for the astrobiological exploration of Mars. Vibrational Spectroscopy, 2006, 41, 182-189.	2.2	65
9	Raman spectroscopy reveals thermal palaeoenvironments of c.3.5 billion-year-old organic matter. Vibrational Spectroscopy, 2006, 41, 190-197.	2.2	65
10	Raman spectroscopy of the eight natural carbonate minerals of calcite structure. Journal of Raman Spectroscopy, 2018, 49, 1999-2007.	2.5	65
11	Multiple Generations of Carbon in the Apex Chert and Implications for Preservation of Microfossils. Astrobiology, 2012, 12, 160-166.	3.0	62
12	Vibrational spectroscopy of fossils. Palaeontology, 2015, 58, 201-211.	2.2	58
13	Raman Hyperspectral Imaging of Microfossils: Potential Pitfalls. Astrobiology, 2013, 13, 920-931.	3.0	38
14	Organic geochemistry of artificially matured conodonts. Organic Geochemistry, 2001, 32, 1055-1071.	1.8	31
15	Macromolecular composition of the dinoflagellate cyst Thalassiphora pelagica (Oligocene, SW) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	30
16	Experimental and Mechanistic Study of Stabilized Dry CO₂ Foam Using Polyelectrolyte Complex Nanoparticles Compatible with Produced Water To Improve Hydraulic Fracturing Performance. Industrial & Engineering Chemistry Research, 2019, 58, 9431-9449.	3.7	29
17	RAMAN SPECTROSCOPIC INVESTIGATIONS OF BURGESS SHALE-TYPE PRESERVATION: A NEW WAY FORWARD. Palaios, 2012, 27, 288-292.	1.3	28
18	Ball milling and annealing graphite in the presence of cobalt. Carbon, 2004, 42, 2179-2186.	10.3	27

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19	Multiple generations of carbonaceous material deposited in Apex chert by basin-scale pervasive hydrothermal fluid flow. Gondwana Research, 2014, 25, 284-289.	6.0	27
20	Hematite and carbonaceous materials in geological samples: A cautionary tale. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 80, 133-137.	3.9	26
21	Selection of Portable Spectrometers for Planetary Exploration: A Comparison of 532â€‰nm and 785â€‰nm Raman Spectroscopy of Reduced Carbon in Archean Cherts. Astrobiology, 2015, 15, 420-429.	3.0	20
22	Raman spectroscopy and biomarker analysis reveal multiple carbon inputs to a Precambrian glacial sediment. Organic Geochemistry, 2009, 40, 1115-1123.	1.8	18
23	Field-Based Raman Spectroscopic Analyses of an Ordovician Stromatolite. Astrobiology, 2013, 13, 814-820.	3.0	18
24	THE END OF A MYTH: ARPYLORUS ANTIQUUS PALEOZOIC DINOFLAGELLATE CYST. Palaios, 2012, 27, 414-423.	1.3	15
25	Potential for analysis of carbonaceous matter on Mars using Raman spectroscopy. Planetary and Space Science, 2014, 103, 184-190.	1.7	15
26	DESCRIPTION AND MICROSCALE ANALYSIS OF SOME ENIGMATIC PALYNOMORPHS FROM THE MIDDLE DEVONIAN (GIVETIAN) OF LIBYA. Palynology, 2009, 33, 101-112.	1.5	14
27	Challenges Analyzing Gypsum on Mars by Raman Spectroscopy. Astrobiology, 2015, 15, 761-769.	3.0	14
28	Imaging of Vanadium in Microfossils: A New Potential Biosignature. Astrobiology, 2017, 17, 1069-1076.	3.0	12
29	X-ray photoelectron spectroscopy of conodonts. Organic Geochemistry, 1998, 28, 759-765.	1.8	9
30	Enhanced Olefin Metathesis Performance of Tungsten and Niobium Incorporated Bimetallic Silicates: Evidence of Synergistic Effects. ChemCatChem, 2020, 12, 2004-2013.	3.7	9
31	MICROCHEMICAL DIFFERENTIATION OF CONODONT AND SCOLECODONT MICROFOSSILS. Palaios, 2013, 28, 433-437.	1.3	8
32	Reexamination of cell contents in Pennsylvanian spores and pollen grains using Raman spectroscopy. Review of Palaeobotany and Palynology, 2014, 210, 62-68.	1.5	8
33	Infrared Spectroscopy of Microorganisms: Characterization, Identification, and Differentiation. ACS Symposium Series, 2007, , 64-84.	0.5	6
34	Raman spectroscopy as a screening tool for ancient life detection on Mars. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140195.	3.4	6
35	Resonance Raman and polarized Raman scattering of singleâ€crystal hematite. Journal of Raman Spectroscopy, 2022, 53, 947-955.	2.5	6
36	Raman spectroscopic documentation of Oligocene bladder stone. Die Naturwissenschaften, 2013, 100, 789-794.	1.6	5

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37	Evaluating the Effects of Autofluorescence during Raman Hyperspectral Imaging. Geostandards and Geoanalytical Research, 2016, 40, 29-47.	3.1	4
38	A Givetian tintinnid-like palynomorph from Libya. Review of Palaeobotany and Palynology, 2014, 203, 3-8.	1.5	3
39	11th International GeoRaman Conference. Journal of Raman Spectroscopy, 2015, 46, 807-809.	2.5	2
40	GeoRaman. Journal of Raman Spectroscopy, 2017, 48, 1398-1400.	2.5	2
41	GeoRaman. Journal of Raman Spectroscopy, 2020, 51, 1410-1414.	2.5	1