

Claude Geffroy

List of Publications by Year in descending order

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50
papers

4,876
citations

304368

22
h-index

197535

49
g-index

50
all docs

50
docs citations

50
times ranked

3881
citing authors

#	ARTICLE	IF	CITATIONS
1	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	6.0	687
2	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	6.0	508
3	Marsâ€™ Surface Radiation Environment Measured with the Mars Science Laboratoryâ€™s Curiosity Rover. Science, 2014, 343, 1244797.	6.0	475
4	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	6.0	367
5	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	6.0	327
6	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	6.0	327
7	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	6.0	323
8	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	6.0	280
9	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	6.0	246
10	Isotope Ratios of H, C, and O in CO ₂ and H ₂ O of the Martian Atmosphere. Science, 2013, 341, 260-263.	6.0	241
11	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	6.0	215
12	The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.	6.0	134
13	Low Upper Limit to Methane Abundance on Mars. Science, 2013, 342, 355-357.	6.0	103
14	A new extraction technique for in situ analyses of amino and carboxylic acids on Mars by gas chromatography mass spectrometry. Planetary and Space Science, 2006, 54, 1592-1599.	0.9	54
15	Search for evidence of life in space: Analysis of enantiomeric organic molecules by N,N-dimethylformamide dimethylacetal derivative dependant Gas Chromatographyâ€™Mass Spectrometry. Journal of Chromatography A, 2010, 1217, 731-740.	1.8	48
16	Chemical derivatization of amino acids for in situ analysis of Martian samples by gas chromatography. Journal of Chromatography A, 2001, 915, 199-207.	1.8	41
17	Spectral characteristics of soil dissolved organic matter: Long-term effects of exogenous organic matter on soil organic matter and spatial-temporal changes. Chemosphere, 2020, 240, 124808.	4.2	39
18	Development of a gas chromatography compatible Sample Processing System (SPS) for the in-situ analysis of refractory organic matter in martian soil: preliminary results. Advances in Space Research, 2009, 43, 143-151.	1.2	36

#	ARTICLE	IF	CITATIONS
19	Did life exist on Mars? Search for organic and inorganic signatures, one of the goals for "SAM" (sample analysis at Mars). <i>Advances in Space Research</i> , 2004, 33, 2240-2245.	1.2	32
20	Thermochemolysis in search for organics in extraterrestrial environments. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009, 85, 454-459.	2.6	31
21	Isotopic biogeochemistry of the lipids in recent sediments of Lake Bled (Slovenia) and Baldeggersee (Switzerland). <i>Organic Geochemistry</i> , 2002, 33, 1183-1195.	0.9	27
22	Solvent extraction of organic molecules of exobiological interest for in situ analysis of the Martian soil. <i>Journal of Chromatography A</i> , 2003, 999, 165-174.	1.8	25
23	A laboratory pilot for in situ analysis of refractory organic matter in Martian soil by gas chromatography-mass spectrometry. <i>Advances in Space Research</i> , 2007, 39, 337-344.	1.2	22
24	Unusual microbial mat-related structural diversity 2.1 billion years ago and implications for the Francevillian biota. <i>Geobiology</i> , 2018, 16, 476-497.	1.1	20
25	Searching for organic compounds in the Universe. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 65, 1-12.	5.8	19
26	Detection of martian amino acids by chemical derivatization coupled to gas chromatography: In situ and laboratory analysis. <i>Advances in Space Research</i> , 2001, 27, 195-199.	1.2	17
27	In situ inorganic and organic analysis (Pyr/CD-GC/MS) of the Martian soil, on the Mars 2005 mission. <i>Planetary and Space Science</i> , 2001, 49, 523-531.	0.9	17
28	Occurrence of plant and fecal steroid and their evolution during co-composting of sewage sludge and lignocellulosic waste. <i>Biochemical Engineering Journal</i> , 2016, 105, 497-504.	1.8	16
29	Depth-related variations in organic matter at the molecular level in a loamy soil: reference data for a long-term experiment devoted to the carbon sequestration research field. <i>European Journal of Soil Science</i> , 2009, 60, 33-43.	1.8	15
30	Distribution of PAHs and trace metals in urban stormwater sediments: combination of density fractionation, mineralogy and microanalysis. <i>Environmental Science and Pollution Research</i> , 2014, 21, 9764-9776.	2.7	15
31	The Challenging Detection of Nucleobases from Pre-accretional Astrophysical Ice Analogs. <i>Astrophysical Journal Letters</i> , 2019, 887, L31.	3.0	14
32	Chirality and the origin of life: In situ enantiomeric separation for future space missions. <i>Chirality</i> , 2002, 14, 527-532.	1.3	13
33	Development of liquid chromatography high resolution mass spectrometry strategies for the screening of complex organic matter: Application to astrophysical simulated materials. <i>Talanta</i> , 2018, 179, 238-245.	2.9	13
34	Search for organics in extraterrestrial environments by in situ gas chromatography analysis. <i>Advances in Space Research</i> , 2005, 36, 195-200.	1.2	12
35	Organic matter compounds as source indicators and tracers for marine pollution in a western Mediterranean coastal zone. <i>Environmental Science and Pollution Research</i> , 2011, 18, 1606-1616.	2.7	12
36	C32 and C34 hopanoids in recent sediments of European lakes: novel intermediates in the early diagenesis of biohopanoids. <i>Organic Geochemistry</i> , 1999, 30, 713-716.	0.9	11

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37	Distribution of PAH residues in humic and mineral fractions of sediments from stormwater infiltration basins. <i>Journal of Soils and Sediments</i> , 2013, 13, 531-542.	1.5	11
38	Study of a novel agent for TCA precipitated proteins washing - comprehensive insights into the role of ethanol/HCl on molten globule state by multi-spectroscopic analyses. <i>Journal of Proteomics</i> , 2018, 173, 77-88.	1.2	11
39	Identification of amino acids by capillary gas chromatography. Application to martian samples. <i>Chromatographia</i> , 2001, 53, S332-S339.	0.7	10
40	Peer Reviewed: Analyzing a Comet Nucleus by Capillary GC. <i>Analytical Chemistry</i> , 2002, 74, 481 A-487 A.	3.2	10
41	Data-Driven UPLC-Orbitrap MS Analysis in Astrochemistry. <i>Life</i> , 2019, 9, 35.	1.1	10
42	Comparison of Methods for Measurement of Organic Compounds at Ultra-Trace Level: Analytical Criteria and Application to Analysis of Amino Acids in Extraterrestrial Samples. <i>Astrobiology</i> , 2005, 5, 48-65.	1.5	8
43	TCA precipitation and ethanol/HCl single-step purification evaluation: One-dimensional gel electrophoresis, bradford assays, spectrofluorometry and Raman spectroscopy data on HSA, Rnase, lysozyme - Mascots and Skyline data. <i>Data in Brief</i> , 2018, 17, 938-953.	0.5	8
44	Gas chromatography-mass spectrometry of hexafluoroacetone derivatives: First time utilization of a gaseous phase derivatizing agent for analysis of extraterrestrial amino acids. <i>Journal of Chromatography A</i> , 2012, 1245, 158-166.	1.8	6
45	Pilot for Validation of Online Pretreatments for Analyses of Organics by Gas Chromatography-mass Spectrometry: Application to Space Research. <i>Analytical Chemistry</i> , 2016, 88, 5137-5144.	3.2	5
46	Geomimetic autoxidation of biohopanoids: a route to bis-hopanoids, potential new sedimentary molecular fossils. <i>Tetrahedron Letters</i> , 1997, 38, 3905-3908.	0.7	4
47	Simple Derivatization-mass Spectrometry for Fatty Acids Profiling in Soil Dissolved Organic Matter. <i>Molecules</i> , 2020, 25, 5278.	1.7	4
48	Focused ultrasound extraction versus microwave-assisted extraction for extraterrestrial objects analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3643-3651.	1.9	4
49	Primary Step Towards In Situ Detection of Chemical Biomarkers in the UNIVERSE via Liquid-Based Analytical System: Development of an Automated Online Trapping/Liquid Chromatography System. <i>Molecules</i> , 2019, 24, 1429.	1.7	3
50	Data for dynamics analysis of soil dissolved organic matter. Long term amendment effect. <i>Data in Brief</i> , 2019, 27, 104665.	0.5	0