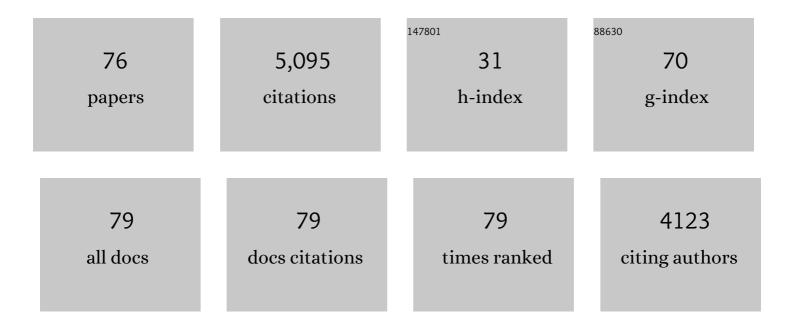
Samuel P Kounaves

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Science Objectives for Flagship-Class Mission Concepts for the Search for Evidence of Life at Enceladus. Astrobiology, 2022, 22, 685-712.	3.0	21
2	Degradation of Amino Acids on Mars by UV Irradiation in the Presence of Chloride and Oxychlorine Salts. Astrobiology, 2021, 21, 793-801.	3.0	5
3	The Enceladus Orbilander Mission Concept: Balancing Return and Resources in the Search for Life. Planetary Science Journal, 2021, 2, 77.	3.6	74
4	Microbial Hotspots in Lithic Microhabitats Inferred from DNA Fractionation and Metagenomics in the Atacama Desert. Microorganisms, 2021, 9, 1038.	3.6	19
5	Methanogenic Archaea Can Produce Methane in Deliquescence-Driven Mars Analog Environments. Scientific Reports, 2020, 10, 6.	3.3	30
6	Stable nitrogen and oxygen isotope fractionation during precipitation of nitrate salt from saturated solutions. Rapid Communications in Mass Spectrometry, 2020, 34, e8905.	1.5	0
7	The Role of Titanium Dioxide (TiO ₂) in the Production of Perchlorate (ClO ₄ [–]) from Chlorite (ClO ₂ [–]) and Chlorate (ClO ₃ [–]) on Earth and Mars. ACS Earth and Space Chemistry, 2019, 3, 1678-1684.	2.7	8
8	Effects of Oxygen-Containing Salts on the Detection of Organic Biomarkers on Mars and in Terrestrial Analog Soils. Astrobiology, 2019, 19, 711-721.	3.0	24
9	Indigenous Organicâ€Oxidized Fluid Interactions in the Tissint Mars Meteorite. Geophysical Research Letters, 2019, 46, 3090-3098.	4.0	25
10	Volatiles Measured by the Phoenix Lander at the Northern Plains of Mars. , 2019, , 265-283.		4
11	Transitory microbial habitat in the hyperarid Atacama Desert. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2670-2675.	7.1	172
12	Evaluation of the Tindouf Basin Region in Southern Morocco as an Analogue Site for Soil Geochemistry on Noachian Mars. Astrobiology, 2018, 18, 1318-1328.	3.0	8
13	Enhanced Microbial Survivability in Subzero Brines. Astrobiology, 2018, 18, 1171-1180.	3.0	32
14	Survivability of 1â€Chloronapthalene During Simulated Early Diagenesis: Implications for Chlorinated Hydrocarbon Detection on Mars. Journal of Geophysical Research E: Planets, 2018, 123, 2790-2802.	3.6	6
15	Perchlorateâ€Driven Combustion of Organic Matter During Pyrolysisâ€Gas Chromatographyâ€Mass Spectrometry: Implications for Organic Matter Detection on Earth and Mars. Journal of Geophysical Research E: Planets, 2018, 123, 1901-1909.	3.6	12
16	Solid Contact Ion-Selective Electrodes for in Situ Measurements at High Pressure. Analytical Chemistry, 2017, 89, 4803-4807.	6.5	12
17	Evidence for the distribution of perchlorates on Mars – ERRATUM. International Journal of Astrobiology, 2017, 16, 236-236.	1.6	1
18	Measurements of Oxychlorine species on Mars. International Journal of Astrobiology, 2017, 16, 203-217.	1.6	33

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19	Effect of Hydration State of Martian Perchlorate Salts on Their Decomposition Temperatures During Thermal Extraction. Journal of Geophysical Research E: Planets, 2017, 122, 2793-2802.	3.6	5
20	Evidence for the distribution of perchlorates on Mars. International Journal of Astrobiology, 2016, 15, 311-318.	1.6	73
21	Deliquescenceâ€induced wetting and RSLâ€like darkening of a Mars analogue soil containing various perchlorate and chloride salts. Geophysical Research Letters, 2016, 43, 4880-4884.	4.0	41
22	The origins of perchlorate in the Martian soil. Geophysical Research Letters, 2015, 42, 3739-3745.	4.0	119
23	The use of graphene oxide as a fixed charge carrier in ion-selective electrodes. Electrochemistry Communications, 2015, 55, 51-54.	4.7	6
24	Nearly Forty Years after Viking: Are We Ready for a New Life-Detection Mission?. Astrobiology, 2015, 15, 413-419.	3.0	18
25	Extraterrestrial. Nanostructure Science and Technology, 2014, , 131-151.	0.1	2
26	Identification of the perchlorate parent salts at the Phoenix Mars landing site and possible implications. Icarus, 2014, 232, 226-231.	2.5	123
27	Evidence of martian perchlorate, chlorate, and nitrate in Mars meteorite EETA79001: Implications for oxidants and organics. Icarus, 2014, 229, 206-213.	2.5	133
28	Electrochemistry of Aqueous Colloidal Graphene Oxide on Pt Electrodes. Langmuir, 2014, 30, 9599-9606.	3.5	7
29	Comparison of the Phoenix Mars Lander WCL soil analyses with Antarctic Dry Valley soils, Mars meteorite EETA79001 sawdust, and a Mars simulant. Icarus, 2013, 225, 933-939.	2.5	12
30	Stability and Lifetime of Potassium Solid ontact Ion Selective Electrodes for Continuous and Autonomous Measurements. Electroanalysis, 2012, 24, 2071-2078.	2.9	12
31	An Electrochemically Based Total Organic Carbon Analyzer for Planetary and Terrestrial On-Site Applications. Analytical Chemistry, 2012, 84, 6271-6276.	6.5	4
32	Carbon-Nanofiber-Based Nanocomposite Membrane as a Highly Stable Solid-State Junction for Reference Electrodes. Analytical Chemistry, 2011, 83, 5749-5753.	6.5	16
33	The oxidation-reduction potential of aqueous soil solutions at the Mars Phoenix landing site. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	28
34	A perchlorate brine lubricated deformable bed facilitating flow of the north polar cap of Mars: Possible mechanism for water table recharging. Journal of Geophysical Research, 2010, 115, .	3.3	24
35	Habitability of the Phoenix landing site. Journal of Geophysical Research, 2010, 115, .	3.3	82
36	Wet Chemistry experiments on the 2007 Phoenix Mars Scout Lander mission: Data analysis and results. Journal of Geophysical Research, 2010, 115, .	3.3	119

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37	Soluble sulfate in the martian soil at the Phoenix landing site. Geophysical Research Letters, 2010, 37, .	4.0	96
38	Discovery of Natural Perchlorate in the Antarctic Dry Valleys and Its Global Implications. Environmental Science & Technology, 2010, 44, 2360-2364.	10.0	167
39	H ₂ O at the Phoenix Landing Site. Science, 2009, 325, 58-61.	12.6	500
40	Evidence for Calcium Carbonate at the Mars Phoenix Landing Site. Science, 2009, 325, 61-64.	12.6	300
41	Detection of Perchlorate and the Soluble Chemistry of Martian Soil at the Phoenix Lander Site. Science, 2009, 325, 64-67.	12.6	913
42	Possible physical and thermodynamical evidence for liquid water at the Phoenix landing site. Journal of Geophysical Research, 2009, 114, .	3.3	137
43	The MECA Wet Chemistry Laboratory on the 2007 Phoenix Mars Scout Lander. Journal of Geophysical Research, 2009, 114, .	3.3	56
44	Microbial Detection Array (MDA), a Novel Instrument for Unambiguous Detection of Microbial Metabolic Activity in Astrobiology Applications. , 2007, , .		3
45	Analysis of Simulated Martian Regolith Using an Array of Ion Selective Electrodes. Electroanalysis, 2005, 17, 1441-1449.	2.9	13
46	Electrochemical Approaches for Chemical and Biological Analysis on Mars. ChemPhysChem, 2003, 4, 162-168.	2.1	10
47	Mars Surveyor Program '01 Mars Environmental Compatibility Assessment wet chemistry lab: A sensor array for chemical analysis of the Martian soil. Journal of Geophysical Research, 2003, 108, 13-1 - 13-12.	3.3	35
48	Planar Array REDOX Cells and pH Sensors for ISS Water Quality and Microbe Detection. , 2003, , .		2
49	<title>Microbial life detection with minimal assumptions</title> ., 2002, 4495, 137.		7
50	Determination of Geochemistry on Mars Using an Array of Electrochemical Sensors. ACS Symposium Series, 2002, , 306-319.	0.5	3
51	Voltammetric measurement of arsenic in natural waters. Talanta, 2002, 58, 23-31.	5.5	108
52	Adsorptive Stripping Analysis of Trace Nickel at Iridium-Based Ultramicroelectrode Arrays. Electroanalysis, 2000, 12, 44-47.	2.9	18
53	The Source of the Anomalous Cathodic Peak During ASV with In Situ Mercury Film Formation in Chloride Solutions. Electroanalysis, 2000, 12, 96-99.	2.9	13
54	Microfabricated Ultramicroelectrode Arrays: Developments, Advances, and Applications in Environmental Analysis. Electroanalysis, 2000, 12, 677-684.	2.9	156

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55	On-Site Analysis of Arsenic in Groundwater Using a Microfabricated Gold Ultramicroelectrode Array. Analytical Chemistry, 2000, 72, 2222-2228.	6.5	213
56	Microfabricated Array of Iridium Microdisks as a Substrate for Direct Determination of Cu2+or Hg2+Using Square-Wave Anodic Stripping Voltammetry. Analytical Chemistry, 1999, 71, 3567-3573.	6.5	203
57	Effects of Chloride Ion Concentration on Mercury(I) Chloride Formation during ex Situ and in Situ Mercury Deposition with Selected Electrode Substrates and Electrolytes. Analytical Chemistry, 1999, 71, 1176-1182.	6.5	16
58	Left with the Truth. Science, 1999, 285, 1013-1013.	12.6	0
59	Failure analysis of microfabricated iridium ultramicroelectrodes in chloride media. Sensors and Actuators B: Chemical, 1998, 50, 117-124.	7.8	8
60	Analytical Characterization of Microlithographically Fabricated Iridium-Based Ultramicroelectrode Arrays. Electroanalysis, 1998, 10, 89-93.	2.9	27
61	Determination of Selenium(IV) at a Microfabricated Gold Ultramicroelectrode Array Using Square Wave Anodic Stripping Voltammetry. Electroanalysis, 1998, 10, 364-368.	2.9	60
62	Effects of mercury electrodeposition on the surface degradation of microlithographically fabricated iridium ultramicroelectrodes. Journal of Electroanalytical Chemistry, 1998, 453, 39-48.	3.8	12
63	Field Evaluation of an Electrochemical Probe forin SituScreening of Heavy Metals in Groundwater. Environmental Science & Technology, 1998, 32, 131-136.	10.0	91
64	Fabrication and Characterization of a Solid State Reference Electrode for Electroanalysis of Natural Waters with Ultramicroelectrodes. Analytical Chemistry, 1997, 69, 1244-1247.	6.5	93
65	Microfabricated electrochemical analysis system for heavy metal detection. Sensors and Actuators B: Chemical, 1996, 34, 450-455.	7.8	67
66	Microfabricated heavy metal ion sensor. Sensors and Actuators B: Chemical, 1995, 23, 41-47.	7.8	75
67	Electrodeposition of Metal Alloy and Mixed Oxide Films Using a Singleâ€Precursor Tetranuclear Copperâ€Nickel Complex. Journal of the Electrochemical Society, 1995, 142, 3357-3365.	2.9	127
68	Determination of organonitriles using enzyme-based selectivity mechanisms. 2. A nitrilase-modified glassy carbon microelectrode sensor for benzonitrile. Analytical Chemistry, 1995, 67, 1679-1683.	6.5	15
69	Iridium-based ultramicroelectrode array fabricated by microlithography. Analytical Chemistry, 1994, 66, 418-423.	6.5	79
70	Analytical utility of the iridium-based mercury ultramicroelectrode with square-wave anodic stripping voltammetry. Analytical Chemistry, 1993, 65, 375-379.	6.5	34
71	Determination of organonitriles using enzyme-based selectivity mechanisms. 1. An ammonia gas sensing electrode-based sensor for benzonitrile. Analytical Chemistry, 1993, 65, 3134-3136.	6.5	14
72	Pseudopolarography at the mercury hemisphere ultramicroelectrode: theory and experiment. Analytical Chemistry, 1992, 64, 2998-3003.	6.5	23

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73	Acquisition, processing, and presentation of 3-D chromatovoltammographic data using an IBM PS/2 and par model 273 potentiostat. Computers & Chemistry, 1992, 16, 29-33.	1.2	2
74	An indium based mercury ultramicroelectrode. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 301, 77-85.	0.1	38
75	Carbon fiber electrode cell for square wave voltammetric detection of biogenic amines in high-performance liquid chromatography. Analytical Chemistry, 1989, 61, 1469-1472.	6.5	27
76	Studies of cadmium—ethylenediamine complex formation in seawater by computer-assisted stripping polarography. Analytica Chimica Acta, 1979, 109, 327-339.	5.4	24