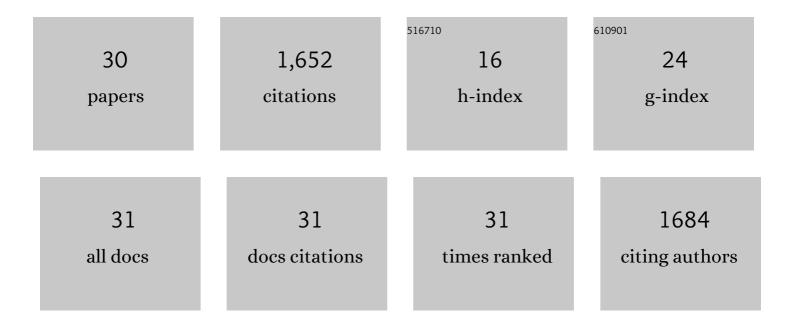
Frank J Grunthaner

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mars-Like Soils in the Atacama Desert, Chile, and the Dry Limit of Microbial Life. Science, 2003, 302, 1018-1021.	12.6	545
2	Development and evaluation of a microdevice for amino acid biomarker detection and analysis on Mars. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1041-1046.	7.1	257
3	Sulfate minerals and organic compounds on Mars. Geology, 2006, 34, 357.	4.4	138
4	Perchlorate Radiolysis on Mars and the Origin of Martian Soil Reactivity. Astrobiology, 2013, 13, 515-520.	3.0	135
5	Enhanced Amine and Amino Acid Analysis Using Pacific Blue and the Mars Organic Analyzer Microchip Capillary Electrophoresis System. Analytical Chemistry, 2009, 81, 2537-2544.	6.5	87
6	Growth of a deltaâ€doped silicon layer by molecular beam epitaxy on a chargeâ€coupled device for reflectionâ€limited ultraviolet quantum efficiency. Applied Physics Letters, 1992, 61, 1084-1086.	3.3	70
7	Organic amine biomarker detection in the Yungay region of the Atacama Desert with the Urey instrument. Journal of Geophysical Research, 2007, 112, .	3.3	49
8	Monolithic TeflonÂ [®] membrane valves and pumps for harsh chemical and low-temperature use. Lab on A Chip, 2007, 7, 1469.	6.0	45
9	Subcritical water extraction of amino acids from Atacama Desert soils. Journal of Geophysical Research, 2007, 112, .	3.3	45
10	The Urey Instrument: An Advanced In Situ Organic and Oxidant Detector for Mars Exploration. Astrobiology, 2008, 8, 583-595.	3.0	40
11	<title>Delta-doped CCDs: high QE with long-term stability at UV and visible wavelengths</title> . , 1994, , .		36
12	Capillary Electrophoresis Analysis of Organic Amines and Amino Acids in Saline and Acidic Samples Using the Mars Organic Analyzer. Astrobiology, 2009, 9, 823-831.	3.0	33
13	Monolithic photolithographically patterned Fluorocurâ,,¢ PFPE membrane valves and pumps for in situ planetary exploration. Lab on A Chip, 2008, 8, 1024.	6.0	25
14	Subcritical Water Extractor for Mars Analog Soil Analysis. Astrobiology, 2008, 8, 597-604.	3.0	24
15	New strategies to detect life on Mars. Astronomy and Geophysics, 2005, 46, 6.26-6.27.	0.2	23
16	Stability of hydroxylated minerals on Mars: A study on the effects of exposure to ultraviolet radiation. Journal of Geophysical Research, 1999, 104, 27031-27041.	3.3	21
17	Sulfur 2p photoelectron spectrum of Limulus oxyhemocyanin. Reply to observations on the ESCA spectra of plastocyanins. Journal of the American Chemical Society, 1977, 99, 1257-1258.	13.7	16
18	The effect of strain-induced polarization fields on impact ionization in a multiquantum-well structure. Applied Physics Letters, 1998, 73, 2784-2786.	3.3	16

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19	<title>Epitaxial growth of p+ silicon on a backside-thinned CCD for enhanced UV response</title> . , 1992, 1656, 488.		11
20	Correlations between the interfacial chemistry and currentâ€voltage behavior ofnâ€GaAs/liquid junctions. Applied Physics Letters, 1990, 57, 1242-1244.	3.3	5
21	<title>Delta-doped CCDs for enhanced UV performance</title> ., 1994, 2278, 138.		5
22	<title>Delta-doped CCDs as stable, high-sensitivity, high-resolution UV imaging arrays</title> . , 1994, , .		5
23	<title>Mars Organic Detector III: a versatile instrument for detection of bio-organic signatures on
Mars</title> . , 2003, 4878, 59.		4
24	An atmospheric oxidation monitor based on in situ thin-film deposition. Sensors and Actuators B: Chemical, 2006, 114, 841-848.	7.8	3
25	A microfluidic sub-critical water extraction instrument. Review of Scientific Instruments, 2017, 88, 114101.	1.3	3
26	Micro acoustic resonant chambers for heating/agitating/mixing (MARCHAM). Proceedings of SPIE, 2016,	0.8	2
27	Astrobiology Special Collection: Instruments for <i>In Situ</i> Exploration of Planets. Astrobiology, 2008, 8, 569-570.	3.0	1
28	Mars-Like Soils in the Yungay Area, the Driest Core of the Atacama Desert in Northern Chile. Cellular Origin and Life in Extreme Habitats, 2004, , 211-216.	0.3	1
29	Nano-Fabricated Size Exclusion Chromatograph. , 2002, , 545-547.		1
30	Auger Electron Spectroscopy. Reliability Physics Symposium, 1976, , .	0.0	0