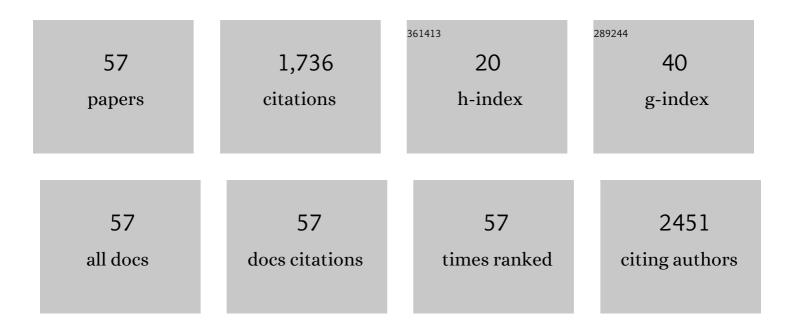
Matthew Izawa

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Illuminating the dark side of the asteroid population: Visible near-infrared (0.7–2.45Âμm) surface mineralogy modeling of D-type asteroids using Shkuratov theory. Icarus, 2021, 354, 114043.	2.5	5
2	Constraining the Regolith Composition of Asteroid (16) Psyche via Laboratory Visible Near-infrared Spectroscopy. Planetary Science Journal, 2021, 2, 95.	3.6	9
3	Round up the unusual suspects: Near-Earth Asteroid 17274 (2000 LC16) a plausible D-type parent body of the Tagish Lake meteorite. Icarus, 2021, 361, 114349.	2.5	2
4	Same family, different neighborhoods: Visible near-infrared (0.7–2.45Âμm) spectral distinctions of D-type asteroids at different heliocentric distances. Icarus, 2021, 363, 114295.	2.5	5
5	Reflectance spectroscopy of ilmenites and related Ti and Ti Fe oxides (200 to 2500Ânm): Spectral–compositional–structural relationships. Icarus, 2021, 362, 114423.	2.5	11
6	Complex Water-ice Mixtures on NII Nereid: Constraints from NIR Reflectance. Planetary Science Journal, 2021, 2, 143.	3.6	2
7	Mineralogical Criteria for the Parent Asteroid of the "Carbonaceous―Achondrite NWA 6704. Astronomical Journal, 2020, 159, 107.	4.7	1
8	Compositional Constraints for Lucy Mission Trojan Asteroids via Near-infrared Spectroscopy. Astronomical Journal, 2019, 158, 204.	4.7	16
9	The unexpected surface of asteroid (101955) Bennu. Nature, 2019, 568, 55-60.	27.8	364
10	Spectral reflectance properties of magnetites: Implications for remote sensing. Icarus, 2019, 319, 525-539.	2.5	40
11	Chemical alteration and preservation of sedimentary/organic nitrogen isotope signatures in a 2.7 Ga seafloor volcanic sequence. International Journal of Astrobiology, 2019, 18, 235-250.	1.6	4
12	Ultraviolet spectral reflectance of carbonaceous materials. Icarus, 2018, 307, 40-82.	2.5	31
13	Spectral reflectance "deconstruction―of the Murchison CM2 carbonaceous chondrite and implications for spectroscopic investigations of dark asteroids. Icarus, 2018, 305, 203-224.	2.5	52
14	Spectral properties and geology of bright and dark material on dwarf planet Ceres. Meteoritics and Planetary Science, 2018, 53, 1961-1982.	1.6	13
15	Spectral reflectance (0.35–2.5â€ [−] µm) properties of garnets: Implications for remote sensing detection and characterization. Icarus, 2018, 300, 392-410.	2.5	17
16	Nitrogen Concentrations and Isotopic Compositions of Seafloor-Altered Terrestrial Basaltic Glass: Implications for Astrobiology. Astrobiology, 2018, 18, 330-342.	3.0	15
17	A mineralogical archive of the biogeochemical sulfur cycle preserved in the subsurface of the RÃo Tinto system. American Mineralogist, 2018, 103, 394-411.	1.9	10
18	Ceres' spectral link to carbonaceous chondrites—Analysis of the dark background materials. Meteoritics and Planetary Science, 2018, 53, 1925-1945.	1.6	6

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19	Reflectance Spectroscopy of Chondrites. , 2018, , 273-343.		12
20	Characterization of Microbial Communities Hosted in Quartzofeldspathic and Serpentinite Lithologies in Jeffrey Mine, Canada. Astrobiology, 2018, 18, 1008-1022.	3.0	2
21	Fitting the curve in Excel®: Systematic curve fitting of laboratory and remotely sensed planetary spectra. Computers and Geosciences, 2017, 100, 103-114.	4.2	12
22	Zinc and germanium in the sedimentary rocks of Gale Crater on Mars indicate hydrothermal enrichment followed by diagenetic fractionation. Journal of Geophysical Research E: Planets, 2017, 122, 1747-1772.	3.6	42
23	Biogeochemical Cycling of Silver in Acidic, Weathering Environments. Minerals (Basel, Switzerland), 2017, 7, 218.	2.0	22
24	SURFACE ALBEDO AND SPECTRAL VARIABILITY OF CERES. Astrophysical Journal Letters, 2016, 817, L22.	8.3	42
25	Oxalate formation under the hyperarid conditions of the Atacama desert as a mineral marker to provide clues to the source of organic carbon on Mars. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1593-1604.	3.0	16
26	Reflectance spectroscopy of oxalate minerals and relevance to Solar System carbon inventories. Icarus, 2016, 278, 7-30.	2.5	9
27	Spectral parameters for Dawn FC color data: Carbonaceous chondrites and aqueous alteration products as potential cerean analog materials. Icarus, 2016, 265, 149-160.	2.5	5
28	Effects of viewing geometry, aggregation state, and particle size on reflectance spectra of the Murchison CM2 chondrite deconvolved to Dawn FC band passes. Icarus, 2016, 266, 235-248.	2.5	11
29	Sublimation in bright spots on (1) Ceres. Nature, 2015, 528, 237-240.	27.8	116
30	Spectral calibration for deriving surface mineralogy of Asteroid (25143) Itokawa from Hayabusa Near-Infrared Spectrometer (NIRS) data. Icarus, 2015, 262, 124-130.	2.5	1
31	Formation of ironâ€rich shelled structures by microbial communities. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 147-168.	3.0	4
32	Link between the potentially hazardous Asteroid (86039) 1999 NC43 and the Chelyabinsk meteoroid tenuous. Icarus, 2015, 252, 129-143.	2.5	11
33	Evidence for methane in Martian meteorites. Nature Communications, 2015, 6, 7399.	12.8	47
34	Exploring exogenic sources for the olivine on Asteroid (4) Vesta. Icarus, 2015, 258, 483-499.	2.5	33
35	Variability, absorption features, and parent body searches in "spectrally featureless―meteorite reflectance spectra: Case study – Tagish Lake. Icarus, 2015, 254, 324-332.	2.5	14
36	The Canadian space agency planetary analogue materials suite. Planetary and Space Science, 2015, 119, 155-172.	1.7	16

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37	Revisiting the Rochechouart impact structure, France. Meteoritics and Planetary Science, 2014, 49, 2152-2168.	1.6	9
38	Laboratory spectroscopic detection of hydration in pristine lunar regolith. Earth and Planetary Science Letters, 2014, 390, 157-164.	4.4	9
39	Chelyabinsk meteorite explains unusual spectral properties of Baptistina Asteroid Family. Icarus, 2014, 237, 116-130.	2.5	54
40	Molecular preservation in halite†and perchlorateâ€rich hypersaline subsurface deposits in the Salar Grande basin (Atacama Desert, Chile): Implications for the search for molecular biomarkers on Mars. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 922-939.	3.0	30
41	Impact-generated hydrothermal systems on Earth and Mars. Icarus, 2013, 224, 347-363.	2.5	219
42	Characterization of the acidic cold seep emplaced jarositic Golden Deposit, NWT, Canada, as an analogue for jarosite deposition on Mars. Icarus, 2013, 224, 382-398.	2.5	16
43	Reflectance spectroscopy (200–2500nm) of highly-reduced phases under oxygen- and water-free conditions. Icarus, 2013, 226, 1612-1617.	2.5	7
44	Evidence for life in the isotopic analysis of surface sulphates in the Haughton impact structure, and potential application on Mars. International Journal of Astrobiology, 2012, 11, 93-101.	1.6	6
45	Characterization of green clay concretions from the Tonggao Formation, South China: Mineralogy, petrogenesis and paleoenvironmental implications ¹ National Natural Science Foundation of China 40825006 Canadian Journal of Earth Sciences, 2012, 49, 1018-1026.	1.3	3
46	Carbonate precipitation under bulk acidic conditions as a potential biosignature for searching life on Mars. Earth and Planetary Science Letters, 2012, 351-352, 13-26.	4.4	23
47	Weathering of Post-Impact Hydrothermal Deposits from the Haughton Impact Structure: Implications for Microbial Colonization and Biosignature Preservation. Astrobiology, 2011, 11, 537-550.	3.0	12
48	Microâ€Xâ€ray diffraction assessment of shock stage in enstatite chondrites. Meteoritics and Planetary Science, 2011, 46, 638-651.	1.6	51
49	QUE 94204: A primitive enstatite achondrite produced by the partial melting of an E chondriteâ€like protolith. Meteoritics and Planetary Science, 2011, 46, 1742-1753.	1.6	8
50	Infrared Spectroscopic Characterization of Organic Matter Associated with Microbial Bioalteration Textures in Basaltic Glass. Astrobiology, 2011, 11, 585-599.	3.0	43
51	Multi-technique investigation reveals new mineral, chemical, and textural heterogeneity in the Tagish Lake C2 chondrite. Planetary and Space Science, 2010, 58, 1347-1364.	1.7	15
52	Basaltic glass as a habitat for microbial life: Implications for astrobiology and planetary exploration. Planetary and Space Science, 2010, 58, 583-591.	1.7	34
53	Mineralogical and spectroscopic investigation of the Tagish Lake carbonaceous chondrite by X-ray diffraction and infrared reflectance spectroscopy. Meteoritics and Planetary Science, 2010, 45, 675-698.	1.6	38
54	Mineralogical and spectroscopic investigation of enstatite chondrites by Xâ€ray diffraction and infrared reflectance spectroscopy. Journal of Geophysical Research, 2010, 115, .	3.3	20

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55	PRESERVATION OF MICROBIAL ICHNOFOSSILS IN BASALTIC GLASS BY TITANITE MINERALIZATION. Canadian Mineralogist, 2010, 48, 1255-1265.	1.0	7
56	Composition and evolution of the early oceans: Evidence from the Tagish Lake meteorite. Earth and Planetary Science Letters, 2010, 298, 443-449.	4.4	46
57	Validation of the Atmospheric Chemistry Experiment (ACE) version 2.2 temperature using ground-based and space-borne measurements. Atmospheric Chemistry and Physics, 2008, 8, 35-62.	4.9	68