Yoshihiro Furukawa

List of Publications by Year
in descending order

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42	1,125	394421	395702
papers	citations	19 h-index	33 g-index

44	44	44	1282
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identifying the wide diversity of extraterrestrial purine and pyrimidine nucleobases in carbonaceous meteorites. Nature Communications, 2022, 13, 2008.	12.8	53
2	Airfall on Comet 67P/Churyumovâ€“Gerasimenko. Icarus, 2021, 354, 114004.	2.5	26
3	Aqueous alteration without initial water: possibility of organic-induced hydration of anhydrous silicates in meteorite parent bodies. Earth, Planets and Space, 2021, 73, .	2.5	2
4	Decompression experiments for sulfur-bearing hydrous rhyolite magma: Redox evolution during magma decompression. American Mineralogist, 2021, 106, 216-225.	1.9	10
5	Experimental Investigation of the Formation of Formaldehyde by Hadean and Noachian Impacts. Astrobiology, 2021, 21, 413-420.	3.0	2
6	Synthesis of ¹³ C-enriched amino acids with ¹³ C-depleted insoluble organic matter in a formose-type reaction in the early solar system. Science Advances, 2021, 7, .	10.3	12
7	Analytical protocols for Phobos regolith samples returned by the Martian Moons eXploration (MMX) mission. Earth, Planets and Space, 2021, 73, 120.	2.5	8
8	Multicolor imaging of calcium-binding proteins in human kidney stones for elucidating the effects of proteins on crystal growth. Scientific Reports, 2021, 11, 16841.	3.3	5
9	Extraterrestrial hexamethylenetetramine in meteoritesâ€”a precursor of prebiotic chemistry in the inner solar system. Nature Communications, 2020, 11, 6243.	12.8	32
10	Impact-induced amino acid formation on Hadean Earth and Noachian Mars. Scientific Reports, 2020, 10, 9220.	3.3	25
11	The Importance of Phobos Sample Return for Understanding the Mars-Moon System. Space Science Reviews, 2020, 216, 1.	8.1	45
12	Exposure Experiments of Amorphous Silicates and Organics to Cometary Ice and Vapor Analogs. Astrophysical Journal, 2019, 881, 27.	4.5	9
13	RNA Synthesis Before the Origin of Life. , 2019, , 63-74.		1
14	Extraterrestrial ribose and other sugars in primitive meteorites. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24440-24445.	7.1	158
15	STXM-XANES analyses of Murchison meteorite samples captured by aerogel after hypervelocity impacts: A potential implication of organic matter degradation for micrometeoroid collection experiments. Geochemical Journal, 2019, 53, 53-67.	1.0	9
16	Racemization of Valine by Impact-Induced Heating. Origins of Life and Evolution of Biospheres, 2018, 48, 131-139.	1.9	3
17	Temperature-induced oligomerization of polycyclic aromatic hydrocarbons at ambient and high pressures. Scientific Reports, 2017, 7, 7889.	3.3	24
18	Borate and the Origin of RNA: A Model for the Precursors to Life. Elements, 2017, 13, 261-265.	0.5	27

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19	Morphological changes of olivine grains reacted with amino acid solutions by impact process. Physics and Chemistry of Minerals, 2017, 44, 203-212.	0.8	1
20	Effects of Glycine, Water, Ammonia, and Ammonium Bicarbonate on the Oligomerization of Methionine. Origins of Life and Evolution of Biospheres, 2017, 47, 145-160.	1.9	1
21	Adsorption of RNA on mineral surfaces and mineral precipitates. Beilstein Journal of Organic Chemistry, 2017, 13, 393-404.	2.2	24
22	Evaporite Borateâ€Containing Mineral Ensembles Make Phosphate Available and Regiospecifically Phosphorylate Ribonucleosides: Borate as a Multifaceted Problem Solver in Prebiotic Chemistry. Angewandte Chemie, 2016, 128, 16048-16052.	2.0	19
23	Evaporite Borateâ€Containing Mineral Ensembles Make Phosphate Available and Regiospecifically Phosphorylate Ribonucleosides: Borate as a Multifaceted Problem Solver in Prebiotic Chemistry. Angewandte Chemie - International Edition, 2016, 55, 15816-15820.	13.8	76
24	Titelbild: Evaporite Borate-Containing Mineral Ensembles Make Phosphate Available and Regiospecifically Phosphorylate Ribonucleosides: Borate as a Multifaceted Problem Solver in Prebiotic Chemistry (Angew. Chem. 51/2016). Angewandte Chemie, 2016, 128, 15911-15911.	2.0	0
25	Effects of Silicate, Phosphate, and Calcium on the Stability of Aldopentoses. Origins of Life and Evolution of Biospheres, 2016, 46, 189-202.	1.9	13
26	Survivability and reactivity of glycine and alanine in early oceans: effects of meteorite impacts. Journal of Biological Physics, 2016, 42, 177-198.	1.5	10
27	Shock wave synthesis of amino acids from solutions of ammonium formate and ammonium bicarbonate. Geochemistry, Geophysics, Geosystems, 2015, 16, 2382-2394.	2.5	4
28	Abiotic Regioselective Phosphorylation of Adenosine with Borate in Formamide. Astrobiology, 2015, 15, 259-267.	3.0	34
29	Nucleobase and amino acid formation through impacts of meteorites on the early ocean. Earth and Planetary Science Letters, 2015, 429, 216-222.	4.4	42
30	Oligomerization and carbonization of polycyclic aromatic hydrocarbons at high pressure and temperature. Carbon, 2015, 84, 225-235.	10.3	20
31	Stability conditions of polycyclic aromatic hydrocarbons at high pressures and temperatures. Geochemistry International, 2014, 52, 767-772.	0.7	4
32	Experimental investigation of reduced volatile formation by high-temperature interactions among meteorite constituent materials, water, and nitrogen. Icarus, 2014, 231, 77-82.	2.5	14
33	Exploration of Enceladus^|^apos; Water-Rich Plumes toward Understanding of Chemistry and Biology of the Interior Ocean. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2014, 12, Tk_7-Tk_11.	0.2	5
34	Selective Stabilization of Ribose by Borate. Origins of Life and Evolution of Biospheres, 2013, 43, 353-361.	1.9	53
35	Abiotic Formation of Valine Peptides Under Conditions of High Temperature and High Pressure. Origins of Life and Evolution of Biospheres, 2012, 42, 519-531.	1.9	13
36	Stability of Amino Acids and Their Oligomerization Under High-Pressure Conditions: Implications for Prebiotic Chemistry. Astrobiology, 2011, 11, 799-813.	3.0	48

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37	Impact-induced phyllosilicate formation from olivine and water. Geochimica Et Cosmochimica Acta, 2011, 75, 6461-6472.	3.9	20
38	New silica clathrate minerals that are isostructural with natural gas hydrates. Nature Communications, 2011, 2, 196.	12.8	120
39	Biomolecule formation by oceanic impacts on early Earth. Nature Geoscience, 2009, 2, 62-66.	12.9	87
40	An interlaboratory study of TEX₈₆ and BIT analysis using highâ€performance liquid chromatographyâ€“mass spectrometry. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	52
41	Formation of Ammonia and Organic Molecules by Oceanic Impact of Meteorite. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2009, 19, 195-200.	0.0	1
42	Formation of ultrafine particles from impact-generated supercritical water. Earth and Planetary Science Letters, 2007, 258, 543-549.	4.4	13