

Yoko Kebukawa

List of Publications by Year in descending order

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51
papers

1,267
citations

430874

18
h-index

361022

35
g-index

54
all docs

54
docs citations

54
times ranked

1315
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin and Evolution of Prebiotic Organic Matter As Inferred from the Tagish Lake Meteorite. <i>Science</i> , 2011, 332, 1304-1307.	12.6	189
2	EXPLORING THE POTENTIAL FORMATION OF ORGANIC SOLIDS IN CHONDRITES AND COMETS THROUGH POLYMERIZATION OF INTERSTELLAR FORMALDEHYDE. <i>Astrophysical Journal</i> , 2013, 771, 19.	4.5	91
3	Compositional diversity in insoluble organic matter in type 1, 2 and 3 chondrites as detected by infrared spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3530-3541.	3.9	82
4	Elemental, isotopic, and structural changes in Tagish Lake insoluble organic matter produced by parent body processes. <i>Meteoritics and Planetary Science</i> , 2014, 49, 503-525.	1.6	75
5	One-pot synthesis of amino acid precursors with insoluble organic matter in planetesimals with aqueous activity. <i>Science Advances</i> , 2017, 3, e1602093.	10.3	69
6	Organic matter in extraterrestrial water-bearing salt crystals. <i>Science Advances</i> , 2018, 4, eaao3521.	10.3	64
7	Mineralogy and petrography of C asteroid regolith: The Sutter's Mill <scp>CM</scp> meteorite. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1997-2016.	1.6	57
8	Space as a Tool for Astrobiology: Review and Recommendations for Experimentations in Earth Orbit and Beyond. <i>Space Science Reviews</i> , 2017, 209, 83-181.	8.1	54
9	Kinetics of organic matter degradation in the Murchison meteorite for the evaluation of parent-body temperature history. <i>Meteoritics and Planetary Science</i> , 2010, 45, 99-113.	1.6	52
10	Nanoscale infrared imaging analysis of carbonaceous chondrites to understand organic-mineral interactions during aqueous alteration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 753-758.	7.1	37
11	Rapid contamination during storage of carbonaceous chondrites prepared for micro FTIR measurements. <i>Meteoritics and Planetary Science</i> , 2009, 44, 545-557.	1.6	36
12	Sequential analysis of carbonaceous materials in Hayabusa-returned samples for the determination of their origin. <i>Earth, Planets and Space</i> , 2014, 66, .	2.5	36
13	A kinetic study of the formation of organic solids from formaldehyde: Implications for the origin of extraterrestrial organic solids in primitive Solar System objects. <i>Icarus</i> , 2015, 248, 412-423.	2.5	35
14	Associations of organic matter with minerals in Tagish Lake meteorite via high spatial resolution synchrotronâ€based <scp>FTIR</scp> microspectroscopy. <i>Meteoritics and Planetary Science</i> , 2016, 51, 584-595.	1.6	33
15	Spatial distribution of organic matter in the Bells CM2 chondrite using nearâ€field infrared microspectroscopy. <i>Meteoritics and Planetary Science</i> , 2010, 45, 394-405.	1.6	31
16	Science exploration and instrumentation of the OKEANOS mission to a Jupiter Trojan asteroid using the solar power sail. <i>Planetary and Space Science</i> , 2018, 161, 99-106.	1.7	31
17	A novel organic-rich meteoritic clast from the outer solar system. <i>Scientific Reports</i> , 2019, 9, 3169.	3.3	25
18	Infrared imaging spectroscopy with micron resolution of Sutter's Mill meteorite grains. <i>Meteoritics and Planetary Science</i> , 2014, 49, 2027-2037.	1.6	18

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19	Molecular evolution during hydrothermal reactions from formaldehyde and ammonia simulating aqueous alteration in meteorite parent bodies. <i>Icarus</i> , 2020, 347, 113827.	2.5	18
20	Geochemistry and the Origin of Life: From Extraterrestrial Processes, Chemical Evolution on Earth, Fossilized Life's Records, to Natures of the Extant Life. <i>Life</i> , 2018, 8, 39.	2.4	17
21	The search for and analysis of direct samples of early Solar System aqueous fluids. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20150386.	3.4	15
22	Heating experiments of the Tagish Lake meteorite: Investigation of the effects of short-term heating on chondritic organics. <i>Meteoritics and Planetary Science</i> , 2019, 54, 104-125.	1.6	15
23	Jovian Trojan Asteroid Exploration by Solar Power Sail-craft. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2016, 14, Pk_1-Pk_7.	0.2	14
24	Characterization of carbonaceous matter in xenolithic clasts from the Sharps (H3.4) meteorite: Constraints on the origin and thermal processing. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 196, 74-101.	3.9	14
25	The polymict carbonaceous breccia Aguas Zarcas: A potential analog to samples being returned by the OSIRIS-REx and Hayabusa2 missions. <i>Meteoritics and Planetary Science</i> , 2021, 56, 277-310.	1.6	14
26	Comparison of FTIR spectra of bulk and acid insoluble organic matter in chondritic meteorites: An implication for missing carbon during demineralization. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1632-1641.	1.6	12
27	Further characterization of carbonaceous materials in Hayabusa-returned samples to understand their origin. <i>Meteoritics and Planetary Science</i> , 2019, 54, 638-666.	1.6	12
28	Primordial organic matter in the xenolithic clast in the Zag H chondrite: Possible relation to D/P asteroids. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 271, 61-77.	3.9	12
29	Submicron Distribution of Organic Matter of Carbonaceous Chondrite Using Near-field Infrared Microspectroscopy. <i>Chemistry Letters</i> , 2009, 38, 22-23.	1.3	10
30	Diamond xenolith and matrix organic matter in the Sutter's Mill meteorite measured by XANES. <i>Meteoritics and Planetary Science</i> , 2014, 49, 2095-2103.	1.6	9
31	On the Nature of Organic Dust in Novae. <i>Astrophysical Journal</i> , 2021, 917, 103.	4.5	9
32	STXM-XANES analyses of Murchison meteorite samples captured by aerogel after hypervelocity impacts: A potential implication of organic matter degradation for micrometeoroid collection experiments. <i>Geochemical Journal</i> , 2019, 53, 53-67.	1.0	9
33	Chemical assessment of the explosive chamber in the projector system of Hayabusa2 for asteroid sampling. <i>Earth, Planets and Space</i> , 2020, 72, .	2.5	8
34	Bulk chemical characteristics of soluble polar organic molecules formed through condensation of formaldehyde: Comparison with soluble organic molecules in Murchison meteorite. <i>Geochemical Journal</i> , 2019, 53, 41-51.	1.0	7
35	Heterogeneous nature of the carbonaceous chondrite breccia Aguas Zarcas " Cosmochemical characterization and origin of new carbonaceous chondrite lithologies. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 334, 155-186.	3.9	7
36	Space Exposure of Amino Acids and Their Precursors during the Tanpopo Mission. <i>Astrobiology</i> , 2021, 21, 1479-1493.	3.0	6

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37	Kinetics in thermal evolution of Raman spectra of chondritic organic matter to evaluate thermal history of their parent bodies. <i>Meteoritics and Planetary Science</i> , 2020, 55, .	1.6	5
38	Organic matter in carbonaceous chondrite lithologies of Almahata Sitta: Incorporation of previously unsampled carbonaceous chondrite lithologies into ureilitic regolith. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1311-1327.	1.6	5
39	Nucleic acid bases in Titan tholins and possible genetic systems in the Titan liquidosphere. <i>Life Sciences in Space Research</i> , 2019, 20, 20-29.	2.3	4
40	Effects of minerals on metamorphism of organic matter during thermal processes in meteorite parent bodies. <i>Icarus</i> , 2021, 358, 114167.	2.5	4
41	Synthesis of Organic Matter in Aqueous Environments Simulating Small Bodies in the Solar System and the Effects of Minerals on Amino Acid Formation. <i>Life</i> , 2021, 11, 32.	2.4	4
42	Assessing the debris generated by the small carry-on impactor operated from the Hayabusa2 mission. <i>Geochemical Journal</i> , 2021, 55, 223-239.	1.0	4
43	Compositional and spectroscopic investigation of three ungrouped carbonaceous chondrites. <i>Meteoritics and Planetary Science</i> , 2022, 57, 1665-1687.	1.6	4
44	An Another Protocol to Make Sulfur Embedded Ultrathin Sections of Extraterrestrial Small Samples. <i>Life</i> , 2020, 10, 135.	2.4	3
45	Alteration and Stability of Complex Macromolecular Amino Acid Precursors in Hydrothermal Environments. <i>Origins of Life and Evolution of Biospheres</i> , 2020, 50, 15-33.	1.9	3
46	Hydrogen isotopic exchange kinetics between organic matter and water: Implications for chemical evolution during meteorite parent body processing. <i>Meteoritics and Planetary Science</i> , 2021, 56, 440-454.	1.6	3
47	Aqueous alteration without initial water: possibility of organic-induced hydration of anhydrous silicates in meteorite parent bodies. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	2
48	Comparison of stepwise and single-step pyrolysis GC/MS for natural complex macromolecular organic matter. <i>Analytical Sciences</i> , 2022, 38, 113-121.	1.6	2
49	Investigation of Powder Sample Fixing Method in XPS Analysis. <i>Bunseki Kagaku</i> , 2020, 69, 639-645.	0.2	1
50	Quenched Nitrogen-included Carbonaceous Composite (QNCC): A powerful candidate of the carriers of the UIR bands in classical novae. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 425-426.	0.0	0
51	Effects of Sputtering on XPS Depth Profile Analysis of Zirconium-based Chemical Conversion Coatings. <i>Bunseki Kagaku</i> , 2020, 69, 559-565.	0.2	0