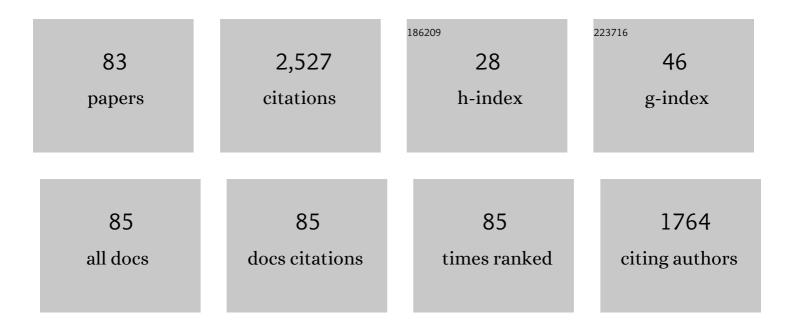
## Yves Marrocchi

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/993211/publications.pdf Version: 2024-02-01



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#	Article	IF	CITATIONS
1	Earth's water may have been inherited from material similar to enstatite chondrite meteorites. Science, 2020, 369, 1110-1113.	6.0	164
2	The Paris meteorite, the least altered CM chondrite so far. Geochimica Et Cosmochimica Acta, 2014, 124, 190-222.	1.6	163
3	Extreme Deuterium Excesses in Ultracarbonaceous Micrometeorites from Central Antarctic Snow. Science, 2010, 328, 742-745.	6.0	160
4	Implications of in situ calcification for photosynthesis in a ~3.3Ga-old microbial biofilm from the Barberton greenstone belt, South Africa. Earth and Planetary Science Letters, 2011, 310, 468-479.	1.8	75
5	The Paris <scp>CM</scp> chondrite: Secondary minerals and asteroidal processing. Meteoritics and Planetary Science, 2014, 49, 1232-1249.	0.7	75
6	Oxygen isotope constraints on the alteration temperatures of CM chondrites. Earth and Planetary Science Letters, 2017, 458, 273-281.	1.8	75
7	Pristine extraterrestrial material with unprecedented nitrogen isotopic variation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10522-10527.	3.3	72
8	Formation of CV chondrules by recycling of amoeboid olivine aggregate-like precursors. Geochimica Et Cosmochimica Acta, 2019, 247, 121-141.	1.6	64
9	Deciphering the conditions of tochilinite and cronstedtite formation in <scp>CM</scp> chondrites from low temperature hydrothermal experiments. Meteoritics and Planetary Science, 2019, 54, 1870-1889.	0.7	61
10	Origin and abundance of water in carbonaceous asteroids. Earth and Planetary Science Letters, 2018, 482, 23-32.	1.8	59
11	Oxygen isotopic diversity of chondrule precursors and the nebular origin of chondrules. Earth and Planetary Science Letters, 2018, 496, 132-141.	1.8	58
12	Hydrogen in chondrites: Influence of parent body alteration and atmospheric contamination on primordial components. Geochimica Et Cosmochimica Acta, 2020, 281, 53-66.	1.6	58
13	Early evolution of the solar accretion disk inferred from Cr-Ti-O isotopes in individual chondrules. Earth and Planetary Science Letters, 2020, 551, 116585.	1.8	49
14	Constraints on Neon and Argon Isotopic Fractionation in Solar Wind. Science, 2007, 318, 433-435.	6.0	48
15	Sulfur and sulfides in chondrules. Geochimica Et Cosmochimica Acta, 2013, 119, 117-136.	1.6	47
16	Mineralogical, crystallographic and redox features of the earliest stages of fluid alteration in CM chondrites. Geochimica Et Cosmochimica Acta, 2017, 209, 106-122.	1.6	45
17	Synthesis of refractory organic matter in the ionized gas phase of the solar nebula. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7129-7134.	3.3	43
18	Multiple precursors of secondary mineralogical assemblages in <scp>CM</scp> chondrites. Meteoritics and Planetary Science, 2016, 51, 785-805.	0.7	43

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19	Redox controls during magma ocean degassing. Earth and Planetary Science Letters, 2022, 577, 117255.	1.8	43
20	INWARD RADIAL MIXING OF INTERSTELLAR WATER ICES IN THE SOLAR PROTOPLANETARY DISK. Astrophysical Journal Letters, 2016, 827, L1.	3.0	41
21	Magmatic sulfides in the porphyritic chondrules of EH enstatite chondrites. Geochimica Et Cosmochimica Acta, 2016, 195, 84-99.	1.6	37
22	Petrographic and C & O isotopic characteristics of the earliest stages of aqueous alteration of CM chondrites. Geochimica Et Cosmochimica Acta, 2017, 213, 271-290.	1.6	35
23	Adsorption of xenon ions onto defects in organic surfaces: Implications for the origin and the nature of organics in primitive meteorites. Geochimica Et Cosmochimica Acta, 2011, 75, 6255-6266.	1.6	34
24	Structure, composition, and location of organic matter in the enstatite chondrite Sahara 97096 (EH3). Meteoritics and Planetary Science, 2012, 47, 8-29.	0.7	33
25	A systematic for oxygen isotopic variation in meteoritic chondrules. Earth and Planetary Science Letters, 2015, 430, 308-315.	1.8	32
26	Origin of isolated olivine grains in carbonaceous chondrites. Meteoritics and Planetary Science, 2021, 56, 13-33.	0.7	32
27	The Diverse Planetary Ingassing/Outgassing Paths Produced over Billions of Years of Magmatic Activity. Space Science Reviews, 2021, 217, 1.	3.7	32
28	<sup>53</sup> Mnâ€ <sup>53</sup> Cr ages of Kaidun carbonates. Meteoritics and Planetary Science, 2011, 46, 275-283.	0.7	31
29	Comprehensive study of carbon and oxygen isotopic compositions, trace element abundances, and cathodoluminescence intensities of calcite in the Murchison CM chondrite. Geochimica Et Cosmochimica Acta, 2015, 161, 101-117.	1.6	31
30	Irreversible adsorption of atmospheric helium on olivine: A lobster pot analogy. Geochimica Et Cosmochimica Acta, 2016, 179, 76-88.	1.6	28
31	Collisional and alteration history of the CM parent body. Geochimica Et Cosmochimica Acta, 2018, 239, 213-234.	1.6	28
32	Rapid condensation of the first Solar System solids. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23461-23466.	3.3	28
33	Oxygen fugacity and melt composition controls on nitrogen solubility in silicate melts. Geochimica Et Cosmochimica Acta, 2020, 284, 120-133.	1.6	28
34	Nitrogen isotopic fractionation during abiotic synthesis of organic solid particles. Earth and Planetary Science Letters, 2014, 393, 2-13.	1.8	26
35	Thermal Evolution of Hydrated Asteroids Inferred from Oxygen Isotopes. Astrophysical Journal Letters, 2019, 882, L20.	3.0	26
36	Origin of hydrogen isotopic variations in chondritic water and organics. Earth and Planetary Science Letters, 2021, 567, 117008.	1.8	26

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37	Low-pressure adsorption of Ar, Kr, and Xe on carbonaceous materials (kerogen and carbon blacks), ferrihydrite, and montmorillonite: Implications for the trapping of noble gases onto meteoritic matter. Geochimica Et Cosmochimica Acta, 2005, 69, 2419-2430.	1.6	25
38	Interlayer trapping of noble gases in insoluble organic matter of primitive meteorites. Earth and Planetary Science Letters, 2005, 236, 569-578.	1.8	25
39	Chondrule heritage and thermal histories from trace element and oxygen isotope analyses of chondrules and amoeboid olivine aggregates. Meteoritics and Planetary Science, 2017, 52, 2672-2694.	0.7	24
40	Nanostructural and Geochemical Features of the Jurassic Isocrinid Columnal Ossicles. Acta Palaeontologica Polonica, 2009, 54, 69-75.	0.4	22
41	Experimental determination of argon solubility in silicate melts: An assessment of the effects of liquid composition and temperature. Geochimica Et Cosmochimica Acta, 2005, 69, 5765-5776.	1.6	21
42	Early scattering of the solar protoplanetary disk recorded in meteoritic chondrules. Science Advances, 2016, 2, e1601001.	4.7	21
43	Primordial water and dust of the Solar System: Insights from in situ oxygen measurements of CI chondrites. Geochimica Et Cosmochimica Acta, 2020, 269, 451-464.	1.6	21
44	Triple Oxygen Isotope Measurements by Multi-Collector Secondary Ion Mass Spectrometry. Frontiers in Earth Science, 2021, 8, .	0.8	21
45	Nitrogen solubility in basaltic silicate melt - Implications for degassing processes. Chemical Geology, 2021, 573, 120192.	1.4	21
46	The role of grain boundaries in the storage and transport of noble gases in the mantle. Earth and Planetary Science Letters, 2015, 430, 260-270.	1.8	20
47	The Tarda Meteorite: A Window into the Formation of D-type Asteroids. Astrophysical Journal Letters, 2021, 913, L9.	3.0	20
48	Experimental determination of the xenon isotopic fractionation during adsorption. Geophysical Research Letters, 2013, 40, 4165-4170.	1.5	19
49	Plume–ridge interaction along the Galapagos Spreading Center: discerning between gas loss and source effects using neon isotopic compositions and 4He–40Arâ^—–CO2 relative abundances. Geochimica Et Cosmochimica Acta, 2011, 75, 1145-1160.	1.6	18
50	Testing the genetic relationship between fluid alteration and brecciation in <scp>CM</scp> chondrites. Meteoritics and Planetary Science, 2019, 54, 1692-1709.	0.7	18
51	Silicon isotopic compositions of chondrule silicates in carbonaceous chondrites and the formation of primordial solids in the accretion disk. Earth and Planetary Science Letters, 2020, 542, 116318.	1.8	17
52	Cronstedtite polytypes in the Paris meteorite. European Journal of Mineralogy, 2018, 30, 349-354.	0.4	16
53	Multiple carriers of Q noble gases in primitive meteorites. Geophysical Research Letters, 2015, 42, 2093-2099.	1.5	15
54	Primordial heavy noble gases in the pristine Paris carbonaceous chondrite. Meteoritics and Planetary Science, 2019, 54, 395-414.	0.7	15

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55	Conditions of chondrule formation in ordinary chondrites. Geochimica Et Cosmochimica Acta, 2021, 313, 295-312.	1.6	15
56	Hydrogen isotopic composition of water in CV-type carbonaceous chondrites. Earth and Planetary Science Letters, 2018, 504, 64-71.	1.8	14
57	The isotopic composition of volatiles in the unique Bench Crater carbonaceous chondrite impactor found in the Apollo 12 regolith. Earth and Planetary Science Letters, 2020, 540, 116265.	1.8	14
58	Processes of noble gas elemental and isotopic fractionations in plasma-produced organic solids: Cosmochemical implications. Geochimica Et Cosmochimica Acta, 2017, 217, 219-230.	1.6	13
59	Constraints on Planetesimal Accretion Inferred from Particle-size Distribution in CO Chondrites. Astrophysical Journal Letters, 2021, 917, L25.	3.0	13
60	High-temperature Ionization-induced Synthesis of Biologically Relevant Molecules in the Protosolar Nebula. Astrophysical Journal, 2018, 859, 142.	1.6	12
61	Highâ€precision <i>in situ</i> silicon isotopic analyses by multiâ€collector secondary ion mass spectrometry in olivine and lowâ€calcium pyroxene. Rapid Communications in Mass Spectrometry, 2019, 33, 1589-1597.	0.7	12
62	Syneruptive incorporation of martian surface sulphur in the nakhlite lava flows revealed by S and Os isotopes and highly siderophile elements: implication for mantle sources in Mars. Geochimica Et Cosmochimica Acta, 2019, 266, 416-434.	1.6	12
63	The Piancaldoli meteorite: A forgotten primitive LL3.10 ordinary chondrite. Meteoritics and Planetary Science, 2020, 55, .	0.7	11
64	Sectioning effects of porphyritic chondrules: Implications for the PP/POP/PO classification and correcting modal abundances of mineralogically zoned chondrules. Meteoritics and Planetary Science, 2020, 55, 993-999.	0.7	11
65	Helium incorporation and diffusion in polycrystalline olivine. Chemical Geology, 2018, 488, 105-124.	1.4	10
66	16O-rich anhydrous silicates in Cl chondrites: Implications for the nature and dynamics of dust in the solar accretion disk. Geochimica Et Cosmochimica Acta, 2022, 332, 203-219.	1.6	10
67	Isotopic evidence for two chondrule generations in CR chondrites and their relationships to other carbonaceous chondrites. Earth and Planetary Science Letters, 2022, 593, 117683.	1.8	10
68	Oxygen isotopic and chemical composition of chromites in micrometeorites: Evidence of ordinary chondrite precursors. Meteoritics and Planetary Science, 2019, 54, 1347-1361.	0.7	9
69	A roadmap for a European extraterrestrial sample curation facility – the EURO CARES project. , 2021, , 249-268.		8
70	Apatite halogen and hydrogen isotope constraints on the conditions of hydrothermal alteration in carbonaceous chondrites. Meteoritics and Planetary Science, 2021, 56, 809-828.	0.7	8
71	Heterogeneous nature of the carbonaceous chondrite breccia Aguas Zarcas – Cosmochemical characterization and origin of new carbonaceous chondrite lithologies. Geochimica Et Cosmochimica Acta, 2022, 334, 155-186.	1.6	7
72	Young asteroid mixing revealed in ordinary chondrites: The case of <scp>NWA</scp> 5764, a polymict <scp>LL</scp> breccia with L clasts. Meteoritics and Planetary Science, 2017, 52, 2289-2304.	0.7	6

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73	Argon storage and diffusion in Earth's upper mantle. Geochimica Et Cosmochimica Acta, 2019, 253, 1-18.	1.6	6
74	Formation of chondrule fineâ€grained rims from local nebular reservoirs. Meteoritics and Planetary Science, 2022, 57, 1004-1017.	0.7	6
75	In-situ O-isotope analysis of relict spinel and forsterite in small (<200Âμm) Antarctic micrometeorites – Samples of chondrules & CAIs from carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 2022, 325, 1-24.	1.6	6
76	The astrophysical context of collision processes in meteorites. Meteoritics and Planetary Science, 2021, 56, 1406-1421.	0.7	5
77	Oxygen isotope systematics of chondrules in Rumuruti chondrites: Formation conditions and genetic link with ordinary chondrites. Meteoritics and Planetary Science, 2022, 57, 122-135.	0.7	5
78	Spinel in CV chondrules: Investigating precursor legacy and chondrule thermal histories. Meteoritics and Planetary Science, 2022, 57, 1018-1037.	0.7	4
79	Comment on "Hydrothermal preparation of analogous matrix minerals of CM carbonaceous chondrites from metal alloy particles―by Y. Peng and Y. Jing [Earth Planet. Sci. Lett. 408 (2014) 252–262]. Earth and Planetary Science Letters, 2015, 428, 304-306.	1.8	3
80	The tumultuous childhood of the Solar System. Nature Astronomy, 2019, 3, 889-890.	4.2	2
81	Effect of deformation on helium storage and diffusion in polycrystalline forsterite. Geochimica Et Cosmochimica Acta, 2020, 273, 226-243.	1.6	2
82	The Pecora Escarpment (PCA) 91020 EL3 chondrite and deformation on the EL3 asteroid. Meteoritics and Planetary Science, 2021, 56, 2144-2154.	0.7	1
83	An unusual compound object in Yamato 793408 (H3.2â€an): The missing link between compound chondrules and macrochondrules?. Meteoritics and Planetary Science, 2020, 55, 1458-1470.	0.7	Ο