

Fang Huang

List of Publications by Year in descending order

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68
papers

1,807
citations

257450

24
h-index

289244

40
g-index

70
all docs

70
docs citations

70
times ranked

1537
citing authors

#	ARTICLE	IF	CITATIONS
1	High-precision Mg isotope analyses of low-Mg rocks by MC-ICP-MS. <i>Chemical Geology</i> , 2014, 390, 9-21.	3.3	144
2	Important role for organic carbon in subduction-zone fluids in the deep carbon cycle. <i>Nature Geoscience</i> , 2014, 7, 909-913.	12.9	132
3	Calcium isotopic fractionation in mantle peridotites by melting and metasomatism and Ca isotope composition of the Bulk Silicate Earth. <i>Earth and Planetary Science Letters</i> , 2017, 474, 128-137.	4.4	98
4	Diamond formation due to a pH drop during fluid-rock interactions. <i>Nature Communications</i> , 2015, 6, 8702.	12.8	76
5	Extended Deep Earth Water Model for predicting major element mantle metasomatism. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 254, 192-230.	3.9	72
6	Uncovering and quantifying the subduction zone sulfur cycle from the slab perspective. <i>Nature Communications</i> , 2020, 11, 514.	12.8	69
7	First-principles calculations of equilibrium Ca isotope fractionation: Implications for oldhamite formation and evolution of lunar magma ocean. <i>Earth and Planetary Science Letters</i> , 2019, 510, 153-160.	4.4	64
8	Calcium isotopic composition of mantle xenoliths and minerals from Eastern China. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 174, 335-344.	3.9	59
9	Calcium isotopic signatures of carbonatite and silicate metasomatism, melt percolation and crustal recycling in the lithospheric mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 248, 1-13.	3.9	57
10	Vanadium isotope measurement by MC-ICP-MS. <i>Chemical Geology</i> , 2016, 421, 17-25.	3.3	52
11	Biogeochemical cycle of chromium isotopes at the modern Earth's surface and its applications as a paleo-environment proxy. <i>Chemical Geology</i> , 2020, 541, 119570.	3.3	46
12	Barium isotopic fractionation in latosol developed from strongly weathered basalt. <i>Science of the Total Environment</i> , 2019, 687, 1295-1304.	8.0	43
13	Immiscible hydrocarbon fluids in the deep carbon cycle. <i>Nature Communications</i> , 2017, 8, 15798.	12.8	40
14	Equilibrium Mg isotope fractionation among aqueous Mg ²⁺ , carbonates, brucite and lizardite: Insights from first-principles molecular dynamics simulations. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 250, 117-129.	3.9	40
15	Cycling phosphorus on the Archean Earth: Part II. Phosphorus limitation on primary production in Archean ecosystems. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 280, 360-377.	3.9	39
16	Cycling phosphorus on the Archean Earth: Part I. Continental weathering and riverine transport of phosphorus. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 273, 70-84.	3.9	36
17	Barium isotope evidence for crystal-melt separation in granitic magma reservoirs. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 292, 115-129.	3.9	32
18	Calcium isotope sources and fractionation during melt-rock interaction in the lithospheric mantle: Evidence from pyroxenites, wehrlites, and eclogites. <i>Chemical Geology</i> , 2019, 524, 272-282.	3.3	30

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19	Annually-resolved coral skeletal $\hat{1}^{138}/^{134}\text{Ba}$ records: A new proxy for oceanic Ba cycling. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 247, 27-39.	3.9	30
20	Iron Isotope Systematics of the Panzhihua Mafic Layered Intrusion Associated With Giant $\text{Fe}\hat{a}\text{Ti}$ Oxide Deposit in the Emeishan Large Igneous Province, SW China. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 358-375.	3.4	29
21	Barium isotopic composition of the mantle: Constraints from carbonatites. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 278, 235-243.	3.9	28
22	Calibrating NIST SRM 683 as a new international reference standard for Zn isotopes. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1777-1783.	3.0	26
23	The behavior of Fe and S isotopes in porphyry copper systems: Constraints from the Tongshankou Cu-Mo deposit, Eastern China. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 270, 61-83.	3.9	25
24	Why was iron lost without significant isotope fractionation during the lateritic process in tropical environments?. <i>Geoderma</i> , 2017, 290, 1-9.	5.1	24
25	Cr isotopic composition of the Laobao cherts during the Ediacaranâ€“Cambrian transition in South China. <i>Chemical Geology</i> , 2018, 482, 121-130.	3.3	24
26	Vanadium isotope compositions of mid-ocean ridge lavas and altered oceanic crust. <i>Earth and Planetary Science Letters</i> , 2018, 493, 128-139.	4.4	24
27	A Review of H_2 , CH_4 , and Hydrocarbon Formation in Experimental Serpentinization Using Network Analysis. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	24
28	A review of machine learning in geochemistry and cosmochemistry: Method improvements and applications. <i>Applied Geochemistry</i> , 2022, 140, 105273.	3.0	24
29	Tracing subduction zone fluids with distinct Mg isotope compositions: Insights from high-pressure metasomatic rocks (leucophyllites) from the Eastern Alps. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 271, 154-178.	3.9	23
30	Mobility of chromium in high temperature crustal and upper mantle fluids. <i>Geochemical Perspectives Letters</i> , 0, 12, 1-6.	5.0	23
31	Equilibrium barium isotope fractionation between minerals and aqueous solution from first-principles calculations. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 292, 64-77.	3.9	22
32	Global earth mineral inventory: A data legacy. <i>Geoscience Data Journal</i> , 2021, 8, 74-89.	4.4	21
33	Metasomatism of the crust-mantle boundary by melts derived from subducted sedimentary carbonates and silicates. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 260, 311-328.	3.9	20
34	Determining Ba isotopes of barite using the $\text{Na}\langle\text{sub}\rangle 2\langle\text{sub}\rangle\text{CO}\langle\text{sub}\rangle 3\langle\text{sub}\rangle$ exchange reaction and double-spike method by MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1459-1467.	3.0	20
35	Magnesium Isotope Composition of Subduction Zone Fluids as Constrained by Jadeitites From Myanmar. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7566-7585.	3.4	19
36	Mantle Zn Isotopic Heterogeneity Caused by $\text{Melt}\hat{a}\text{Rock}$ Reaction: Evidence From $\text{Fe}\hat{a}\text{Rich}$ Peridotites and Pyroxenites From the Bohemian Massif, Central Europe. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 3588-3604.	3.4	18

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37	First Identification of Mafic Igneous Enclaves in Miocene Lavas of Southern Tibet With Implications for Indian Continental Subduction. <i>Geophysical Research Letters</i> , 2018, 45, 8205-8213.	4.0	17
38	Ultra-high precision silicon isotope micro-analysis using a Cameca IMS-1280 SIMS instrument by eliminating the topography effect. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 906-914.	3.0	17
39	Vanadium isotopic fractionation during the formation of marine ferromanganese crusts and nodules. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 265, 371-385.	3.9	16
40	Fe and O isotopes in coesite-bearing jadeite quartzite from the Western Alps record multistage fluid-rock interactions in a continental subduction zone. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 312, 1-24.	3.9	15
41	Calcium isotope compositions of arc magmas: Implications for Ca and carbonate recycling in subduction zones. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 306, 1-19.	3.9	14
42	Vanadium isotope composition of the Bulk Silicate Earth: Constraints from peridotites and komatiites. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 259, 288-301.	3.9	13
43	Significant $\delta^{44}/40\text{Ca}$ variations between carbonate- and clay-rich marine sediments from the Lesser Antilles forearc and implications for mantle heterogeneity. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 276, 239-257.	3.9	13
44	Dramatic changes in the carbonate-hosted barium isotopic compositions in the Ediacaran Yangtze Platform. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 299, 113-129.	3.9	13
45	Iron isotope fractionation during sulfide liquid segregation and crystallization at the Lengshuiqing Ni-Cu magmatic sulfide deposit, SW China. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 261, 327-341.	3.9	11
46	Geochemical evidence from coesite-bearing jadeite quartzites for large-scale flow of metamorphic fluids in a continental subduction channel. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 265, 354-370.	3.9	10
47	Vanadium isotope fractionation during differentiation of Kilauea Iki lava lake, Hawaii. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 289, 114-129.	3.9	10
48	Rapid determination of Ba isotope compositions for barites using a H_2O -extraction method and MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1566-1573.	3.0	10
49	Sulfur isotopic signature of Earth established by planetesimal volatile evaporation. <i>Nature Geoscience</i> , 2021, 14, 806-811.	12.9	10
50	Mg, C and O isotopic compositions of Late Cretaceous lacustrine dolomite and travertine in the northern Tianshan Mountains, Northwest China. <i>Chemical Geology</i> , 2020, 541, 119569.	3.3	9
51	High precision Rb isotope measurements by MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2744-2755.	3.0	9
52	U-series disequilibria in subduction zone lavas: Inherited from subducted slabs or produced by mantle in-growth melting?. <i>Chemical Geology</i> , 2016, 440, 179-190.	3.3	8
53	Silicon isotopic fractionation during metamorphic fluid activities: constraints from eclogites and ultrahigh-pressure veins in the Dabie orogen, China. <i>Chemical Geology</i> , 2020, 540, 119550.	3.3	8
54	Fe isotopic composition of the Quaternary Red Clay in subtropical Southeast China: Redoxic Fe mobility and its paleoenvironmental implications. <i>Chemical Geology</i> , 2019, 524, 356-367.	3.3	7

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55	Machine Learning Investigation of Clinopyroxene Compositions to Evaluate and Predict Mantle Metasomatism Worldwide. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	7
56	Strontium isotopic evidence for the provenance of occupants and subsistence of Sarakenos Cave in prehistoric Greece. <i>Quaternary International</i> , 2019, 508, 13-22.	1.5	5
57	Early Prosperity of Iron Bacteria at the End of the Paleoproterozoic Era. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5
58	Dehydration of Glaucophane in the System Na ₂ O-MgO-Al ₂ O ₃ -SiO ₂ -H ₂ O and the Effects of NaCl-, CO ₂ - and Silicate-bearing Aqueous Fluids. <i>Journal of Petrology</i> , 2019, 60, 2369-2386.	2.8	4
59	Mixing of carbonatitic into saline fluid during panda diamond formation. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 284, 1-20.	3.9	4
60	Dataset for H ₂ , CH ₄ and organic compounds formation during experimental serpentinization. <i>Geoscience Data Journal</i> , 2021, 8, 90-100.	4.4	4
61	Data Processing. , 2019, , 1-4.		4
62	Silicon Isotope Compositions of Soil and Sediment Reference Materials Determined by MC-ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2022, 46, 117-127.	3.1	3
63	Silicon isotope compositions of metaperidotites from the Franciscan Complex of California-implications for Si isotope fractionation during subduction dehydration. <i>Lithos</i> , 2019, 350-351, 105228.	1.4	2
64	Understanding the Bioaccumulation of Mercury in Rice Plants at the Wanshan Mercury Mine, China: Using Stable Mercury Isotopes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006103.	3.0	2
65	Determining ⁸⁸ Sr/ ⁸⁶ Sr of barite using the Na ₂ CO ₃ exchange method. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 390-398.	3.0	2
66	Data Cleansing. , 2019, , 1-4.		1
67	Data Life Cycle. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 1-4.	0.1	0
68	CHARACTERIZING CARBON MINERALOGY AND FORMATIONAL ENVIRONMENTS THROUGH DEEP TIME WITH ADVANCED ANALYTICS AND VISUALIZATION. , 2019, , .		0