

James Hein

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4943585/publications.pdf>

Version: 2024-02-01

94
papers

5,545
citations

71061

41
h-index

82499

72
g-index

115
all docs

115
docs citations

115
times ranked

3549
citing authors

#	ARTICLE	IF	CITATIONS
1	Geochemical insights into formation of enigmatic ironstones from Rio Grande rise, South Atlantic Ocean. <i>Marine Geology</i> , 2022, 444, 106716.	0.9	5
2	Estimates of Metals Contained in Abyssal Manganese Nodules and Ferromanganese Crusts in the Global Ocean Based on Regional Variations and Genetic Types of Nodules. , 2022, , 53-80.		5
3	Abyssal Manganese Nodule Recording of Global Cooling and Tibetan Plateau Uplift Impacts on Asian Aridification. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	8
4	Seabed mining and blue growth: exploring the potential of marine mineral deposits as a sustainable source of rare earth elements (MaREEs) (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2022, 94, 329-351.	0.9	14
5	Crystal Chemistry of Thallium in Marine Ferromanganese Deposits. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1269-1285.	1.2	9
6	Geochemical approach to the genesis of the Oligocene-stratiform manganese-oxide deposit, Chiatura (Georgia). <i>Ore Geology Reviews</i> , 2021, 128, 103910.	1.1	24
7	Progressive ocean oxygenation at ~ 2.2 Ga inferred from geochemistry and molybdenum isotopes of the Nsuta Mn deposit, Ghana. <i>Chemical Geology</i> , 2021, 567, 120116.	1.4	6
8	Geochemical and mineralogical composition of ferromanganese precipitates from the southern Mariana arc: Evaluation, formation, and implications. <i>Chemical Geology</i> , 2021, 568, 120132.	1.4	4
9	A magnetic approach to unravelling the paleoenvironmental significance of nanometer-sized Fe hydroxide in NW Pacific ferromanganese deposits. <i>Earth and Planetary Science Letters</i> , 2021, 565, 116945.	1.8	10
10	Miocene Phosphatization of Rocks From the Summit of Rio Grande Rise, Southwest Atlantic Ocean. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004197.	1.3	10
11	Growth of ferromanganese crusts on bioturbated soft substrate, Tropic Seamount, northeast Atlantic ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2021, 175, 103586.	0.6	6
12	Gallium-aluminum systematics of marine hydrogenetic ferromanganese crusts: Inter-oceanic differences and fractionation during scavenging. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 310, 187-204.	1.6	8
13	A possible link between seamount sector collapse and manganese nodule occurrence in the abyssal plains, NW Pacific Ocean. <i>Ore Geology Reviews</i> , 2021, 138, 104378.	1.1	12
14	Ocean Floor Manganese Deposits. , 2021, , 993-1001.		1
15	Platinum enrichment and phase associations in marine ferromanganese crusts and nodules based on a multi-method approach. <i>Chemical Geology</i> , 2020, 539, 119426.	1.4	31
16	Evolution of a deep-water ferromanganese nodule in the South China Sea in response to Pacific deep-water circulation and continental weathering during the Plio-Pleistocene. <i>Quaternary Science Reviews</i> , 2020, 229, 106106.	1.4	4
17	Geographic and Oceanographic Influences on Ferromanganese Crust Composition Along a Pacific Ocean Meridional Transect, 14 N to 14S. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008716.	1.0	17
18	Magnetite magnetofossils record biogeochemical remanent magnetization in hydrogenetic ferromanganese crusts. <i>Geology</i> , 2020, 48, 298-302.	2.0	15

#	ARTICLE	IF	CITATIONS
19	Spectroscopic Insights Into Ferromanganese Crust Formation and Diagenesis. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009074.	1.0	8
20	Effects of Phosphatization on the Mineral Associations and Speciation of Pb in Ferromanganese Crusts. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1515-1526.	1.2	8
21	Changes in sediment source areas to the Amerasia Basin, Arctic Ocean, over the past 5.5 million years based on radiogenic isotopes (Sr, Nd, Pb) of detritus from ferromanganese crusts. <i>Marine Geology</i> , 2020, 428, 106280.	0.9	2
22	Deep-ocean polymetallic nodules as a resource for critical materials. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 158-169.	12.2	179
23	Ferromanganese crusts as recorders of marine dissolved oxygen. <i>Earth and Planetary Science Letters</i> , 2020, 533, 116057.	1.8	13
24	Geochemistry and origins of carbonate fluorapatite in seamount Fe Mn crusts from the Pacific Ocean. <i>Marine Geology</i> , 2020, 423, 106135.	0.9	19
25	Genesis and Evolution of Ferromanganese Crusts from the Summit of Rio Grande Rise, Southwest Atlantic Ocean. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 349.	0.8	37
26	A framework for understanding Mo isotope records of Archean and Paleoproterozoic Fe- and Mn-rich sedimentary rocks: Insights from modern marine hydrothermal Fe-Mn oxides. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 280, 221-236.	1.6	17
27	Multidisciplinary Scientific Cruise to the Rio Grande Rise. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	17
28	Tectonic and paleoceanographic conditions during the formation of ferromanganese nodules from the northern South China Sea based on the high-resolution geochemistry, mineralogy and isotopes. <i>Marine Geology</i> , 2019, 410, 146-163.	0.9	22
29	Mineralization at Oceanic Transform Faults and Fracture Zones. , 2019, , 105-118.		4
30	Formation and Occurrence of Ferromanganese Crusts: Earth's Storehouse for Critical Metals. <i>Elements</i> , 2018, 14, 313-318.	0.5	43
31	Integrated Geochemical and Morphological Data Provide Insights into the Genesis of Ferromanganese Nodules. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 488.	0.8	43
32	Mineral Phase-Element Associations Based on Sequential Leaching of Ferromanganese Crusts, Amerasia Basin Arctic Ocean. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 460.	0.8	11
33	Ferromanganese Crusts and Nodules: Rocks That Grow. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 477-483.	0.1	3
34	Distance-gradient-based variogram and Kriging to evaluate cobalt-rich crust deposits on seamounts. <i>Ore Geology Reviews</i> , 2017, 84, 218-227.	1.1	15
35	Composition and genesis of ferromanganese deposits from the northern South China Sea. <i>Journal of Asian Earth Sciences</i> , 2017, 138, 110-128.	1.0	41
36	Marine Ferromanganese Encrustations: Archives of Changing Oceans. <i>Elements</i> , 2017, 13, 177-182.	0.5	64

#	ARTICLE	IF	CITATIONS
37	Arctic Deep Water Ferromanganese Oxide Deposits Reflect the Unique Characteristics of the Arctic Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3771-3800.	1.0	41
38	Reconstructing the Evolution of the Submarine Monterey Canyon System From Os, Nd, and Pb Isotopes in Hydrogenetic Fe-Mn Crusts. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3946-3963.	1.0	7
39	Fe-Mn oxide indications in the feeder and mound zone of the Jurassic Mn-carbonate ore deposit, ÁšrkĀt, Hungary. <i>Ore Geology Reviews</i> , 2017, 86, 839-855.	1.1	8
40	Composition and characteristics of the ferromanganese crusts from the western Arctic Ocean. <i>Ore Geology Reviews</i> , 2017, 87, 88-99.	1.1	43
41	Formation of Fe-Mn crusts within a continental margin environment. <i>Ore Geology Reviews</i> , 2017, 87, 25-40.	1.1	62
42	Marine Phosphorites as Potential Resources for Heavy Rare Earth Elements and Yttrium. <i>Minerals (Basel, Switzerland)</i> , 2016, 6, 88.	0.8	57
43	Mineral and chemostratigraphy of a Toarcian black shale hosting Mn-carbonate microbialites (ÁšrkĀt), Tj ETQq1 1 0.784314 rgBT /Over	1.0	27
44	Phosphorites, Co-rich Mn nodules, and Fe-Mn crusts from Galicia Bank, NE Atlantic: Reflections of Cenozoic tectonics and paleoceanography. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 346-374.	1.0	57
45	Controls on ferromanganese crust composition and reconnaissance resource potential, Ninetyeast Ridge, Indian Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 110, 1-19.	0.6	62
46	A Cenozoic seawater redox record derived from ²³⁸ U/ ²³⁵ U in ferromanganese crusts. <i>Numerische Mathematik</i> , 2016, 316, 64-83.	0.7	70
47	Cobalt-rich Manganese Crusts. <i>Encyclopedia of Earth Sciences Series</i> , 2016, , 113-117.	0.1	0
48	Ferromanganese Crusts and Nodules, Rocks that Grow. <i>Encyclopedia of Earth Sciences Series</i> , 2016, , 1-7.	0.1	1
49	Critical metals in manganese nodules from the Cook Islands EEZ, abundances and distributions. <i>Ore Geology Reviews</i> , 2015, 68, 97-116.	1.1	115
50	Persistence of deeply sourced iron in the Pacific Ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1292-1297.	3.3	49
51	The evolution of climatically driven weathering inputs into the western Arctic Ocean since the late Miocene: Radiogenic isotope evidence. <i>Earth and Planetary Science Letters</i> , 2015, 419, 111-124.	1.8	16
52	Layered Hydrothermal Barite-Sulfide Mound Field, East Diamante Caldera, Mariana Volcanic Arc. <i>Economic Geology</i> , 2014, 109, 2179-2206.	1.8	14
53	Fractionation of the geochemical twins Zr-Hf and Nb-Ta during scavenging from seawater by hydrogenetic ferromanganese crusts. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 468-487.	1.6	56
54	Co-Rich Manganese Crusts. , 2014, , 1-7.		2

#	ARTICLE	IF	CITATIONS
55	Celadonite and smectite formation in the Mn -carbonate ore deposit (Hungary). <i>Sedimentary Geology</i> , 2013, 294, 157-163.	1.0	29
56	Deep-sea Fe-Mn Crusts from the Northeast Atlantic Ocean: Composition and Resource Considerations. <i>Marine Georesources and Geotechnology</i> , 2013, 31, 40-70.	1.2	54
57	Deep-ocean mineral deposits as a source of critical metals for high- and green-technology applications: Comparison with land-based resources. <i>Ore Geology Reviews</i> , 2013, 51, 1-14.	1.1	700
58	Copper- and nickel-rich, amalgamated ferromanganese crust nodule deposits from Shatsky Rise, NW Pacific. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	44
59	New age for ferromanganese crust ^{109}D and implications for isotopic records of lead, neodymium, hafnium, and thallium in the Pliocene Indian Ocean. <i>Paleoceanography</i> , 2011, 26, .	3.0	28
60	The molecular mechanism of Mo isotope fractionation during adsorption to birnessite. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5019-5031.	1.6	97
61	Seamount Mineral Deposits: A Source of Rare Metals for High-Technology Industries. <i>Oceanography</i> , 2010, 23, 184-189.	0.5	111
62	Ferromanganese crusts as archives of deep water Cd isotope compositions. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	55
63	Thallium isotope evidence for a permanent increase in marine organic carbon export in the early Eocene. <i>Earth and Planetary Science Letters</i> , 2009, 278, 297-307.	1.8	106
64	Seamount Characteristics and Mine-Site Model Applied to Exploration- and Mining-Lease-Block Selection for Cobalt-Rich Ferromanganese Crusts. <i>Marine Georesources and Geotechnology</i> , 2009, 27, 160-176.	1.2	85
65	Diffuse flow hydrothermal manganese mineralization along the active Mariana and southern Izu-Bonin arc system, western Pacific. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	83
66	Seawater osmium isotope evidence for a middle Miocene flood basalt event in ferromanganese crust records. <i>Earth and Planetary Science Letters</i> , 2008, 273, 175-183.	1.8	33
67	Metalliferous Sediment and a Silica-Hematite Deposit within the Blanco Fracture Zone, Northeast Pacific. <i>Marine Georesources and Geotechnology</i> , 2008, 26, 317-339.	1.2	29
68	Lithium contents and isotopic compositions of ferromanganese deposits from the global ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 1147-1162.	0.6	52
69	Platinum group elements and gold in ferromanganese crusts from Afanasy-Nikitin seamount, equatorial Indian Ocean: Sources and fractionation. <i>Journal of Earth System Science</i> , 2007, 116, 3-13.	0.6	50
70	Methanogenic calcite, ^{13}C -depleted bivalve shells, and gas hydrate from a mud volcano offshore southern California. <i>Geology</i> , 2006, 34, 109.	2.0	58
71	Mercury- and Silver-Rich Ferromanganese Oxides, Southern California Borderland: Deposit Model and Environmental Implications. <i>Economic Geology</i> , 2005, 100, 1151-1168.	1.8	40
72	A porous silica rock (sinter) in the footwall of the Jurassic Mn deposit, Hungary: Composition, and origin through carbonate dissolution. <i>Sedimentary Geology</i> , 2005, 177, 87-96.	1.0	7

#	ARTICLE	IF	CITATIONS
73	New constraints on the sources and behavior of neodymium and hafnium in seawater from Pacific Ocean ferromanganese crusts. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3827-3843.	1.6	113
74	Uptake of elements from seawater by ferromanganese crusts: solid-phase associations and seawater speciation. <i>Marine Geology</i> , 2003, 198, 331-351.	0.9	376
75	Global occurrence of tellurium-rich ferromanganese crusts and a model for the enrichment of tellurium. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1117-1127.	1.6	146
76	Clay-mineral suites, sources, and inferred dispersal routes: Southern California continental shelf. <i>Marine Environmental Research</i> , 2003, 56, 79-102.	1.1	16
77	The Line Islands revisited: New $^{40}\text{Ar}/^{39}\text{Ar}$ geochronologic evidence for episodes of volcanism due to lithospheric extension. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1-28.	1.0	61
78	Growth response of a deep-water ferromanganese crust to evolution of the Neogene Indian Ocean. <i>Marine Geology</i> , 2000, 162, 529-540.	0.9	36
79	DIAGENETIC EVOLUTION OF SEAMOUNT PHOSPHORITE. , 2000, , 245-256.		6
80	Influence of substrate rocks on Fe-Mn crust composition. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1999, 46, 855-875.	0.6	36
81	Actual timing of neodymium isotopic variations recorded by FeMn crusts in the western North Atlantic. <i>Earth and Planetary Science Letters</i> , 1999, 171, 149-156.	1.8	72
82	Osmium isotope variations in the oceans recorded by FeMn crusts. <i>Earth and Planetary Science Letters</i> , 1999, 171, 185-197.	1.8	95
83	Iron and manganese oxide mineralization in the Pacific. <i>Geological Society Special Publication</i> , 1997, 119, 123-138.	0.8	145
84	Climate and Ocean Dynamics and the Lead Isotopic Records in Pacific Ferromanganese Crusts. <i>Science</i> , 1997, 277, 913-918.	6.0	122
85	Comparison of the partitioning behaviours of yttrium, rare earth elements, and titanium between hydrogenetic marine ferromanganese crusts and seawater. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 1709-1725.	1.6	504
86	Ferromanganese crusts as indicators for paleoceanographic events in the NE Atlantic. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1996, 85, 567-576.	1.3	49
87	Hydrothermal mineralization along submarine rift zones, Hawaii. <i>Marine Georesources and Geotechnology</i> , 1996, 14, 177-203.	1.2	51
88	Composition and origin of hydrothermal ironstones from central Pacific seamounts. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 179-189.	1.6	92
89	Hydrothermal palygorskite and ferromanganese mineralization at a central California margin fracture zone. <i>Marine Geology</i> , 1993, 115, 47-65.	0.9	21
90	Two Major Cenozoic Episodes of Phosphogenesis Recorded in Equatorial Pacific Seamount Deposits. <i>Paleoceanography</i> , 1993, 8, 293-311.	3.0	136

#	ARTICLE	IF	CITATIONS
91	Variations in the Fine-Scale Composition of a Central Pacific Ferromanganese Crust: Paleooceanographic Implications. <i>Paleoceanography</i> , 1992, 7, 63-77.	3.0	87
92	Cobalt- and platinum-rich ferromanganese crusts and associated substrate rocks from the Marshall Islands. <i>Marine Geology</i> , 1988, 78, 255-283.	0.9	122
93	Sources, Dispersal, and Clay Mineral Composition of Fine-Grained Sediment off Central and Northern California. <i>Journal of Geology</i> , 1980, 88, 541-566.	0.7	101
94	Clay mineralogy, fine-grained sediment dispersal, and inferred current patterns, lower Cook Inlet and Kodiak shelf, Alaska. <i>Sedimentary Geology</i> , 1979, 24, 291-306.	1.0	18