

James R Hein

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116
papers

4,974
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39
h-index

68
g-index

123
ext. papers

5,676
ext. citations

5
avg, IF

5.57
L-index

#	Paper	IF	Citations
116	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	3.2	456
115	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	5.5	403
114	Uptake of elements from seawater by ferromanganese crusts: solid-phase associations and seawater speciation. <i>Marine Geology</i> , 2003 , 198, 331-351	3.3	300
113	Diagenesis of late Cenozoic diatomaceous deposits and formation of the bottom simulating reflector in the southern Bering Sea*. <i>Sedimentology</i> , 1978 , 25, 155-181	3.3	168
112	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	5.5	121
111	North Atlantic Deep Water export to the Southern Ocean over the past 14 Myr: Evidence from Nd and Pb isotopes in ferromanganese crusts. <i>Paleoceanography</i> , 2002 , 17, 12-1-12-9		110
110	Climate and Ocean Dynamics and the Lead Isotopic Records in Pacific Ferromanganese Crusts. <i>Science</i> , 1997 , 277, 913-918	33.3	105
109	Two Major Cenozoic Episodes of Phosphogenesis Recorded in Equatorial Pacific Seamount Deposits. <i>Paleoceanography</i> , 1993 , 8, 293-311		102
108	Cobalt- and platinum-rich ferromanganese crusts and associated substrate rocks from the Marshall Islands. <i>Marine Geology</i> , 1988 , 78, 255-283	3.3	101
107	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	5.5	100
106	Iron and manganese oxide mineralization in the Pacific. <i>Geological Society Special Publication</i> , 1997 , 119, 123-138	1.7	99
105	Hafnium isotope stratigraphy of ferromanganese crusts. <i>Science</i> , 1999 , 285, 1052-4	33.3	90
104	Sources, Dispersal, and Clay Mineral Composition of Fine-Grained Sediment off Central and Northern California. <i>Journal of Geology</i> , 1980 , 88, 541-566	2	89
103	Osmium isotope variations in the oceans recorded by FeMn crusts. <i>Earth and Planetary Science Letters</i> , 1999 , 171, 185-197	5.3	88
102	The molecular mechanism of Mo isotope fractionation during adsorption to birnessite. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 5019-5031	5.5	83
101	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	5.3	83
100	Critical metals in manganese nodules from the Cook Islands EEZ, abundances and distributions. <i>Ore Geology Reviews</i> , 2015 , 68, 97-116	3.2	80

99	Composition and origin of hydrothermal ironstones from central Pacific seamounts. <i>Geochimica Et Cosmochimica Acta</i> , 1994 , 58, 179-189	5.5	79
98	Origin of Iron-Rich Montmorillonite from the Manganese Nodule Belt of the North Equatorial Pacific. <i>Clays and Clay Minerals</i> , 1979 , 27, 185-194	2.1	78
97	Deep-ocean polymetallic nodules as a resource for critical materials. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 158-169	30.2	75
96	Variations in the Fine-Scale Composition of a Central Pacific Ferromanganese Crust: Paleooceanographic Implications. <i>Paleoceanography</i> , 1992 , 7, 63-77		73
95	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	2.2	68
94	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	5.3	68
93	Ferromanganese crusts from Necker Ridge, Horizon Guyot and S.P. Lee Guyot: Geological considerations. <i>Marine Geology</i> , 1985 , 69, 25-54	3.3	65
92	Changes in erosion and ocean circulation recorded in the Hf isotopic compositions of North Atlantic and Indian Ocean ferromanganese crusts. <i>Earth and Planetary Science Letters</i> , 2000 , 181, 315-325	5.3	64
91	Diagenesis and distribution of late Cenozoic volcanic sediment in the southern Bering Sea. <i>Bulletin of the Geological Society of America</i> , 1978 , 89, 197	3.9	58
90	Deep and bottom water export from the Southern Ocean to the Pacific over the past 38 million years. <i>Paleoceanography</i> , 2004 , 19, n/a-n/a		55
89	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,		54
88	Bacterially mediated diagenetic origin for chert-hosted manganese deposits in the Franciscan Complex, California Coast Ranges. <i>Geology</i> , 1987 , 15, 722	5	54
87	Coral reef evolution on rapidly subsiding margins. <i>Global and Planetary Change</i> , 2009 , 66, 129-148	4.2	50
86	Methanogenic calcite, ¹³ C-depleted bivalve shells, and gas hydrate from a mud volcano offshore southern California. <i>Geology</i> , 2006 , 34, 109	5	50
85	Deep-sea Fe-Mn Crusts from the Northeast Atlantic Ocean: Composition and Resource Considerations. <i>Marine Georesources and Geotechnology</i> , 2013 , 31, 40-70	2.2	46
84	Formation of Fe-Mn crusts within a continental margin environment. <i>Ore Geology Reviews</i> , 2017 , 87, 25-40	3.2	44
83	Tracing the history of submarine hydrothermal inputs and the significance of hydrothermal hafnium for the seawater budget: a combined Pb-Hf-Nd isotope approach. <i>Earth and Planetary Science Letters</i> , 2004 , 222, 259-273	5.3	43
82	Origin of authigenic carbonates in sediment from the deep Bering Sea. <i>Sedimentology</i> , 1979 , 26, 681-705	3.3	43

81	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	2.5	42
80	Increasing rate of movement with time between California and the Pacific Plate: From Delgada Submarine Fan source areas. <i>Journal of Geophysical Research</i> , 1973 , 78, 7752-7762		42
79	Hydrothermal mineralization along submarine rift zones, Hawaii. <i>Marine Georesources and Geotechnology</i> , 1996 , 14, 177-203	2.2	41
78	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	3.6	39
77	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	5.5	39
76	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, 1292-7	11.5	39
75	Barite-forming environments along a rifted continental margin, Southern California Borderland. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007 , 54, 1327-1349	2.3	39
74	Lead isotopes in North Pacific deep water – Implications for past changes in input sources and circulation patterns. <i>Earth and Planetary Science Letters</i> , 2003 , 209, 149-164	5.3	38
73	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	2.3	37
72	Marine Ferromanganese Encrustations: Archives of Changing Oceans. <i>Elements</i> , 2017 , 13, 177-182	3.8	36
71	Composition and origin of Early Cambrian Tiantaishan phosphorite-Mn carbonate ores, Shaanxi Province, China. <i>Ore Geology Reviews</i> , 1999 , 15, 95-134	3.2	35
70	Composition and characteristics of the ferromanganese crusts from the western Arctic Ocean. <i>Ore Geology Reviews</i> , 2017 , 87, 88-99	3.2	34
69	Meiji sediment tongue: North Pacific evidence for limited movement between the Pacific and North American plates. <i>Bulletin of the Geological Society of America</i> , 1977 , 88, 1567	3.9	34
68	Marine Phosphorites as Potential Resources for Heavy Rare Earth Elements and Yttrium. <i>Minerals (Basel, Switzerland)</i> , 2016 , 6, 88	2.4	33
67	Growth response of a deep-water ferromanganese crust to evolution of the Neogene Indian Ocean. <i>Marine Geology</i> , 2000 , 162, 529-540	3.3	32
66	Influence of substrate rocks on Fe-Mn crust composition. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1999 , 46, 855-875	2.5	32
65	Sr and Nd isotopic variations in ferromanganese crusts from the Central Pacific: Implications for age and source provenance. <i>Geochimica Et Cosmochimica Acta</i> , 1988 , 52, 2229-2233	5.5	32
64	Geochronology and subsurface stratigraphy of Pukapuka and Rakahanga atolls, Cook Islands: Late Quaternary reef growth and sea level history. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1992 , 91, 377-394	2.9	29

63	Formation and Occurrence of Ferromanganese Crusts: Earth's Storehouse for Critical Metals. <i>Elements</i> , 2018 , 14, 313-318	3.8	29
62	Arctic Deep Water Ferromanganese-Oxide Deposits Reflect the Unique Characteristics of the Arctic Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 3771-3800	3.6	28
61	Metalliferous Sediment and a Silica-Hematite Deposit within the Blanco Fracture Zone, Northeast Pacific. <i>Marine Georesources and Geotechnology</i> , 2008 , 26, 317-339	2.2	26
60	Composition and genesis of ferromanganese deposits from the northern South China Sea. <i>Journal of Asian Earth Sciences</i> , 2017 , 138, 110-128	2.8	25
59	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	5.3	25
58	Genesis and Evolution of Ferromanganese Crusts from the Summit of Rio Grande Rise, Southwest Atlantic Ocean. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 349	2.4	22
57	New age for ferromanganese crust 109D-C and implications for isotopic records of lead, neodymium, hafnium, and thallium in the Pliocene Indian Ocean. <i>Paleoceanography</i> , 2011 , 26, n/a-n/a		22
56	Mineral and chemostratigraphy of a Toarcian black shale hosting Mn-carbonate microbialites (Eke, Hungary). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016 , 459, 99-120	2.9	21
55	Integration of bed characteristics, geochemical tracers, current measurements, and numerical modeling for assessing the provenance of beach sand in the San Francisco Bay Coastal System. <i>Marine Geology</i> , 2013 , 345, 181-206	3.3	20
54	Central Pacific Cobalt-Rich Ferromanganese Crusts: Historical Perspective and Regional Variability. <i>Earth Science Series</i> , 1992 , 261-283		20
53	Platinum enrichment and phase associations in marine ferromanganese crusts and nodules based on a multi-method approach. <i>Chemical Geology</i> , 2020 , 539, 119426	4.2	19
52	Hydrothermal palygorskite and ferromanganese mineralization at a central California margin fracture zone. <i>Marine Geology</i> , 1993 , 115, 47-65	3.3	18
51	Cobalt-Rich Ferromanganese Crusts in the Pacific 2017 , 239-279		18
50	A SrNd isotopic study of sand-sized sediment provenance and transport for the San Francisco Bay coastal system. <i>Marine Geology</i> , 2013 , 345, 143-153	3.3	17
49	Clay-mineral suites, sources, and inferred dispersal routes: Southern California continental shelf. <i>Marine Environmental Research</i> , 2003 , 56, 79-102	3.3	16
48	Chapter 3 Comparisons Between Open-Ocean and Continental Margin Chert Sequences. <i>Developments in Sedimentology</i> , 1983 , 36, 25-43		16
47	Chapter 10 Petrology and Geochemistry of Cretaceous and Paleogene Cherts From Western Costa Rica. <i>Developments in Sedimentology</i> , 1983 , 143-174		16
46	Deep-sea Sediment Source Areas: Implications of Variable Rates of Movement between California and the Pacific Plate. <i>Nature</i> , 1973 , 241, 40-41	50.4	16

45	Early Pleistocene origin of reefs around Lanai, Hawaii. <i>Earth and Planetary Science Letters</i> , 2010 , 290, 331-339	5.3	15
44	Dolomitization of Quaternary reef limestone, Aitutaki, Cook Islands. <i>Sedimentology</i> , 1992 , 39, 645-661	3.3	15
43	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	5.3	14
42	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	3.3	13
41	Sand sources and transport pathways for the San Francisco Bay coastal system, based on X-ray diffraction mineralogy. <i>Marine Geology</i> , 2013 , 345, 154-169	3.3	13
40	Integration of bed characteristics, geochemical tracers, current measurements, and numerical modeling for assessing the provenance of beach sand in the San Francisco Bay Coastal System. <i>Marine Geology</i> , 2013 , 336, 120-145	3.3	13
39	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	2.8	13
38	Sub-seafloor acoustic characterization of seamounts near the Ogasawara Fracture Zone in the western Pacific using chirp (30kHz) subbottom profiles. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005 , 52, 1932-1956	2.5	11
37	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	2.6	11
36	Multidisciplinary Scientific Cruise to the Rio Grande Rise. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	10
35	Mineralogy and stable isotopes of black shale-hosted manganese ores, southwestern Taurides, Turkey. <i>Economic Geology</i> , 1997 , 92, 733-744	4.3	10
34	Ordovician reef-hosted Jiaodingshan Mn ^{II} O deposit and Dawashan Mn deposit, Sichuan Province, China. <i>Ore Geology Reviews</i> , 1999 , 15, 135-151	3.2	10
33	Mineralogy and Diagenesis of Surface Sediments from DOMES Areas A, B, and C 1979 , 365-396		10
32	Distance-gradient-based variogram and Kriging to evaluate cobalt-rich crust deposits on seamounts. <i>Ore Geology Reviews</i> , 2017 , 84, 218-227	3.2	9
31	Stable isotope, chemical, and mineral compositions of the Middle Proterozoic Lijiaying Mn deposit, Shaanxi Province, China. <i>Ore Geology Reviews</i> , 1999 , 15, 55-69	3.2	9
30	Petrography and chemistry of hydrothermal manganese oxyhydroxides from the Mariana and Izu-Bonin Volcanic Arcs, West Pacific. <i>US Geological Survey Open-File Report</i> ,		9
29	Magnetite magnetofossils record biogeochemical remanent magnetization in hydrogenetic ferromanganese crusts. <i>Geology</i> , 2020 , 48, 298-302	5	9
28	Ferromanganese crusts as recorders of marine dissolved oxygen. <i>Earth and Planetary Science Letters</i> , 2020 , 533, 116057	5.3	8

27	Fe-Mn oxide indications in the feeder and mound zone of the Jurassic Mn-carbonate ore deposit, E_kE , Hungary. <i>Ore Geology Reviews</i> , 2017 , 86, 839-855	3.2	8
26	Geology, geophysics, geochemistry, and deep-sea mineral deposits, Federated States of Micronesia; KORDI-USGS R.V. Farnella Cruise F11-90-CP. <i>US Geological Survey Open-File Report</i> ,		8
25	Geochemical approach to the genesis of the Oligocene-stratiform manganese-oxide deposit, Chiatura (Georgia). <i>Ore Geology Reviews</i> , 2021 , 128, 103910	3.2	8
24	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	5.5	7
23	Geochemistry and origins of carbonate fluorapatite in seamount FeMn crusts from the Pacific Ocean. <i>Marine Geology</i> , 2020 , 423, 106135	3.3	6
22	Geophysical investigation of seamounts near the Ogasawara Fracture Zone, western Pacific. <i>Earth, Planets and Space</i> , 2009 , 61, 319-331	2.9	6
21	A porous silica rock (Tripolit) in the footwall of the Jurassic E_kE manganese deposit, Hungary: Composition, and origin through carbonate dissolution. <i>Sedimentary Geology</i> , 2005 , 177, 87-96	2.8	6
20	Lithified carbonate sediment and zeolitic tuff in basalts, Mid-Atlantic Ridge. <i>Sedimentology</i> , 1973 , 20, 399-410	3.3	5
19	DIAGENETIC EVOLUTION OF SEAMOUNT PHOSPHORITE 2000 , 245-256		5
18	Geology and Hydrogeology of the Cook Islands. <i>Developments in Sedimentology</i> , 2004 , 54, 503-535		3
17	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	4.2	3
16	Geochemical and mineralogical composition of ferromanganese precipitates from the southern Mariana arc: Evaluation, formation, and implications. <i>Chemical Geology</i> , 2021 , 568, 120132	4.2	3
15	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	5.3	3
14	Miocene Phosphatization of Rocks From the Summit of Rio Grande Rise, Southwest Atlantic Ocean. <i>Paleoceanography and Paleoclimatology</i> , 2021 , 36, e2020PA004197	3.3	3
13	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	5.5	3
12	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		2
11	Spectroscopic Insights Into Ferromanganese Crust Formation and Diagenesis. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2020GC009074	3.6	2
10	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	3.2	2

9	Mineralization at Oceanic Transform Faults and Fracture Zones 2019 , 105-118		2
8	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	2.5	2
7	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	3.2	2
6	Diagenesis of diatomite from the Kolubara Coal Basin, BaroĀvac, Serbia. <i>Geological Journal</i> , 2007 , 29, 209-217	1.7	1
5	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	3.9	1
4	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	3.3	0
3	Geochemical insights into formation of enigmatic ironstones from Rio Grande rise, South Atlantic Ocean. <i>Marine Geology</i> , 2022 , 444, 106716	3.3	0
2	Ocean Floor Manganese Deposits 2021 , 993-1001		0
1	Siliceous Deposits of the Tethys and Pacific Regions 1989 , 1-17		