Mostafa Fayek

List of Publications by Year
in descending order

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122 papers	2,924 citations	172457 29 h-index	214800 47 g-index
124 all docs	124 docs citations	124 times ranked	2674 citing authors

#	Article	IF	Citations
1	Dating of monazite-apatite-allanite-epidote corona from the Bayan Obo Group in the northern margin of the North China Craton: implications for the time of regional Au and REE mineralization. Science Bulletin, 2022, 67, 236-239.	9.0	3
2	Unconformity-controlled bleaching of Jurassic-Triassic sandstones in the Ordos Basin, China. Journal of Petroleum Science and Engineering, 2022, 211, 110154.	4.2	6
3	Trace element signatures in hematite and goethite associated with the Kiggavikâ€“Andrew Lake structural trend U deposits (Nunavut, Canada). Mineralium Deposita, 2021, 56, 509-535.	4.1	12
4	A trace metal, stable isotope (H, O, S), and geochronological (U-Pb titanite) characterization of hybridized gold orebodies in the Missanabie-Renabie district, Wawa subprovince (Canada). Mineralium Deposita, 2021, 56, 561-582.	4.1	10
5	Multistage mineralization in the Haoyaoerhudong gold deposit, Central Asian Orogenic Belt: Constraints from the sedimentary-diagenetic and hydrothermal sulfides and gold. Geoscience Frontiers, 2021, 12, 587-604.	8.4	9
6	Diversity of uranium deposits in China â€“ An introduction to the Special Issue. Ore Geology Reviews, 2021, 129, 103944.	2.7	11
7	Natural and Anthropogenic Analogues for High-Level Nuclear Waste Disposal Repositories: A Review. Canadian Mineralogist, 2021, 59, 287-317.	1.0	1
8	Iron and magnesium isotope geochemistry in hydrothermal uranium ore systems: Insights from the Bong Deposit, Canada. Journal of Geochemical Exploration, 2021, 229, 106843.	3.2	1
9	Introduction to the thematic issue on exploration for global uranium deposits: in memory of T. Kurtis Kyser. Mineralium Deposita, 2021, 56, 1239-1244.	4.1	2
10	Transformation of Fe-bearing minerals from Dongsheng sandstone-type uranium deposit, Ordos Basin, north-central China: Implications for ore genesis. American Mineralogist, 2021, , .	1.9	3
11	Micromorphologies and sulfur isotopic compositions of pyrite in sandstone-hosted uranium deposits: A review and implications for ore genesis. Ore Geology Reviews, 2021, 139, 104512.	2.7	15
12	Rare earth element partitioning between fluids and uraninite at 50â^'700 Â°C. Canadian Mineralogist, 2021, 59, 869-884.	1.0	0
13	B- and O-isotopic compositions of tourmaline constrain late-stage magmatic volatile exsolution in Tasmanian tin-related granite systems. Mineralium Deposita, 2020, 55, 63-78.	4.1	15
14	A provenance study of Roman lead-glazed ceramics using lead isotopes and secondary ion mass spectrometry (SIMS). Microchemical Journal, 2020, 154, 104519.	4.5	11
15	Network Structure and Dissolution Properties of Phosphate-Doped Borosilicate Glasses. Journal of Physical Chemistry C, 2020, 124, 21184-21196.	3.1	14
16	Sources of sulphur for the Proterozoic Kiggavik uranium deposit, Nunavut, Canada. Canadian Journal of Earth Sciences, 2020, 57, 1312-1323.	1.3	1
17	Geochemistry and geochronology of the Kiggavik uranium deposit, Nunavut, Canada. Mineralium Deposita, 2020, 56, 1245.	4.1	3
18	An experimental approach to examine fluid-melt interaction and mineralization in rare-metal pegmatites. American Mineralogist, 2020, 105, 1078-1087.	1.9	13

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19	Evolution and origins of pyrite in sandstone-type uranium deposits, northern Ordos Basin, north-central China, based on micromorphological and compositional analysis. Ore Geology Reviews, 2020, 118, 103334.	2.7	21
20	Paleomagnetism indicates that primary magnetite in zircon records a strong Hadean geodynamo. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2309-2318.	7.1	46
21	Textural and isotopic studies of the Cretaceous Little Nahanni pegmatite group (NWT, Canada) suggests mixed fluid reservoirs during its evolution. Canadian Mineralogist, 2019, 57, 771-773.	1.0	1
22	Sulfur Isotopes in Biogenically and Abiogenically Derived Uranium Roll-Front Deposits. Economic Geology, 2019, 114, 353-373.	3.8	11
23	Extreme sulfur isotope fractionation in the Late Devonian Dry Creek volcanogenic massive sulfide deposit, central Alaska. Chemical Geology, 2019, 513, 226-238.	3.3	11
24	Sulfide melt inclusions associated with magmatic Ni-Cu-platinum-group element (PGE) mineralization in the Caribou Lake Gabbro, Blatchford Lake intrusive suite, Northwest Territories, Canada. Ore Geology Reviews, 2019, 107, 513-531.	2.7	0
25	Identifying precontact ceramic resource areas in the boreal forest of northern Manitoba, Canada. North American Archaeologist, 2019, 40, 3-35.	0.5	0
26	Ore mineralogy of the Chisel Lake Zn-Cu-Ag (+Au) VMS deposit in the Flin Flon â€“ Snow Lake Domain, Manitoba, Canada. Canadian Mineralogist, 2019, 57, 925-945.	1.0	4
27	The human element: discerning the effects of potterâ€™s behavior on the chemical composition of ceramics. Archaeological and Anthropological Sciences, 2019, 11, 171-198.	1.8	10
28	Raw material variety and acquisition of the EB III ground stone assemblage of Tell es-Safi/Gath (Israel). , 2019, , 121-150.		1
29	New constraints on genesis of the polymetallic veins at Port Radium, Great Bear Lake, Northwest Canadian Shield. Ore Geology Reviews, 2018, 96, 28-47.	2.7	7
30	Characterizing southern Baffin Island chert: A cautionary tale for provenance research. Journal of Archaeological Science: Reports, 2018, 22, 324-329.	0.5	2
31	Geology, geochemistry, and geochronology of the East Bay gold trend, Red Lake, Ontario, Canada. Mineralium Deposita, 2018, 53, 127-141.	4.1	4
32	Microbial structures and possible bacterial sulfide fossils in the giant Jinding Zn-Pb deposit, Yunnan, SW-China: Insights into the genesis of Zn-Pb sulfide mineralization. Ore Geology Reviews, 2018, 92, 61-72.	2.7	6
33	3.2 Ga detrital uraninite in the Witwatersrand Basin, South Africa: Evidence of a reducing Archean atmosphere. Geology, 2018, 46, 295-298.	4.4	16
34	A simplified silver phosphate extraction method for oxygen isotope analysis of bioapatite. Rapid Communications in Mass Spectrometry, 2018, 32, 1237-1242.	1.5	4
35	Evidence of upgrading of gold tenor in an orogenic quartz-carbonate vein system by late magmatic-hydrothermal fluids at the Madrid Deposit, Hope Bay Greenstone Belt, Nunavut, Canada. Geochimica Et Cosmochimica Acta, 2018, 241, 180-218.	3.9	33
36	Atypical Cu mineralisation in the Cornwallis carbonate-hosted Zn district: Storm copper deposit, Arctic Canada. Ore Geology Reviews, 2018, 99, 86-115.	2.7	3

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37	Petrography, fluid inclusion analysis, and geochronology of the End uranium deposit, Kiggavik, Nunavut, Canada. Mineralium Deposita, 2017, 52, 211-232.	4.1	60
38	Hydrothermal mineralization in the sandstoneâ€“hosted Hangjinqi uranium deposit, North Ordos Basin, China. Ore Geology Reviews, 2017, 80, 103-115.	2.7	61
39	Newly discovered uranium mineralization at ~2.0 Ma in the Menggongjie granite-hosted uranium deposit, South China. Journal of Asian Earth Sciences, 2017, 137, 241-249.	2.3	26
40	Textural, Fluid Inclusion, and Stable Oxygen Isotope Constraints on Vein Formation and Gold Precipitation at the 007 Deposit, Rice Lake Greenstone Belt, Bissett, Manitoba, Canada. Economic Geology, 2017, 112, 629-660.	3.8	22
41	Genesis of the Jinding Zn-Pb deposit, northwest Yunnan Province, China: Constraints from rare earth elements and noble gas isotopes. Ore Geology Reviews, 2017, 90, 970-986.	2.7	17
42	Uranium-bearing opals: Products of U-mobilization, diffusion, and transformation processes. American Mineralogist, 2017, 102, 1154-1164.	1.9	5
43	Rapid Diffusion and Nanosegregation of Hydrogen in Magnesium Alloys from Exposure to Water. ACS Applied Materials & Interfaces, 2017, 9, 38125-38134.	8.0	14
44	Origin Of Scapolite-Hosted Sapphire (Corundum) Near Kimmirut, Baffin Island, Nunavut, Canada. Canadian Mineralogist, 2017, 55, 669-699.	1.0	10
45	Genesis of Emerald-Bearing Quartz Veins Associated With the Lened W-Skarn Mineralization, Northwest Territories, Canada. Canadian Mineralogist, 2017, 55, 561-593.	1.0	11
46	Fractionation of hydrogen and oxygen in artificial sea ice with corrections for salinity for determining meteorological water content in bulk ice samples. Cold Regions Science and Technology, 2017, 142, 93-99.	3.5	5
47	Tracer Film Growth Study of the Corrosion of Magnesium Alloys AZ31B and ZE10A in 0.01% NaCl Solution. Journal of the Electrochemical Society, 2017, 164, C367-C375.	2.9	19
48	Mineralogy, geochronology, and genesis of the Andrew Lake uranium deposit, Thelon Basin, Nunavut, Canada. Canadian Journal of Earth Sciences, 2017, 54, 850-868.	1.3	17
49	Fluid compositions and P-T conditions of vein-type uranium mineralization in the Beaverlodge uranium district, northern Saskatchewan, Canada. Ore Geology Reviews, 2017, 80, 460-483.	2.7	20
50	Hydrothermal Rare Earth Element (Xenotime) Mineralization at Maw Zone, Athabasca Basin, Canada, and Its Relationship to Unconformity-Related Uranium Deposits. Economic Geology, 2017, 112, 1483-1507.	3.8	38
51	Uranium-Series Disequilibria in the Groundwater of the Shihongtan Sandstone-Hosted Uranium Deposit, NW China. Minerals (Basel, Switzerland), 2016, 6, 3.	2.0	9
52	Manual Point Cloud Classification and Extraction for Hunter-Gatherer Feature Investigation: A Test Case From Two Low Arctic Paleo-Inuit Sites. Open Archaeology, 2016, 2, .	0.8	2
53	Mass bias corrections for Uâ€Pb isotopic analysis by secondary ion mass spectrometry: Implications for Uâ€Pb dating of uraninite. Rapid Communications in Mass Spectrometry, 2016, 30, 1601-1611.	1.5	13
54	A human-centered GIS approach to modeling mobility on southern Baffin Island, Nunavut, Canada. Journal of Field Archaeology, 2016, 41, 684-698.	1.3	11

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55	Provenance and exchange of basalt grinding stones of EB III Tell es-Safi/Gath, Israel. Journal of Archaeological Science: Reports, 2016, 9, 226-237.	0.5	6
56	Oxygen diffusion and exchange in dolomite rock at 700 Â°C, 100 MPa. American Mineralogist, 2016, 101, 1898-1905.	1.9	2
57	A Combined Ingress-Egress Model for the Kianna Unconformity-Related Uranium Deposit, Shea Creek Project, Athabasca Basin, Canada. Economic Geology, 2016, 111, 225-257.	3.8	25
58	Luminescence of uranium-bearing opals: Origin and use as a pH record. Chemical Geology, 2016, 423, 1-6.	3.3	9
59	CHARACTERIZATION OF CHERT ARTIFACTS AND TWO NEWLY IDENTIFIED CHERT QUARRIES ON SOUTHERN BAFFIN ISLAND. Lithic Technology, 2015, 40, 189-198.	1.1	9
60	Micro-textures and in situ sulfur isotopic analysis of spheroidal and zonal sulfides in the giant Jinding Znâ€“Pb deposit, Yunnan, China: Implications for biogenic processes. Journal of Asian Earth Sciences, 2015, 103, 288-304.	2.3	28
61	Geochronology and Genesis of the Bong Uranium Deposit, Thelon Basin, Nunavut, Canada. Economic Geology, 2015, 110, 1759-1777.	3.8	20
62	Cretaceous ongonites (topaz-bearing albite-rich microleucogranites) from Ongon Khairkhan, Central Mongolia: Products of extreme magmatic fractionation and pervasive metasomatic fluid: rock interaction. Lithos, 2015, 236-237, 173-189.	1.4	100
63	Hydrogen and copper isotope analysis of turquoise by SIMS: calibration and matrix effects. Chemical Geology, 2015, 395, 41-49.	3.3	22
64	In-situ SIMS uraninite Uâ€“Pb dating and genesis of the Xianshi granite-hosted uranium deposit, South China. Ore Geology Reviews, 2015, 65, 968-978.	2.7	49
65	Just a crush? Contamination of archaeological samples by different grinding media. Open Journal of Archaeometry, 2014, 2, .	0.2	2
66	Transmission Electron Microscopy Study of Aqueous Film Formation and Evolution on Magnesium Alloys. Journal of the Electrochemical Society, 2014, 161, C302-C311.	2.9	111
67	Tracer Film Growth Study of Hydrogen and Oxygen from the Corrosion of Magnesium in Water. Journal of the Electrochemical Society, 2014, 161, C395-C404.	2.9	30
68	Microscale sulfur isotopic compositions of sulfide minerals from the Jinding Znâ€“Pb deposit, Yunnan Province, Southwest China. Gondwana Research, 2014, 26, 594-607.	6.0	45
69	Turquoise trade of the Ancestral Puebloan: Chaco and beyond. Journal of Archaeological Science, 2014, 45, 187-195.	2.4	33
70	Evidence for nanocrystals of vorlanite, a rare uranate mineral, in the Nopal I low-temperature uranium deposit (Sierra Pena Blanca, Mexico). American Mineralogist, 2013, 98, 518-521.	1.9	14
71	Uranium Association with Iron-Bearing Phases in Mill Tailings from Gunnar, Canada. Environmental Science & Technology, 2013, 47, 12695-12702.	10.0	31
72	Occurrence and significance of a cold-water carbonate pseudomorph in microbialites from a saline lake. Journal of Paleolimnology, 2013, 50, 505-517.	1.6	14

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73	A combined visual-geochemical approach to establishing provenance for pegmatite quartz artifacts. Journal of Archaeological Science, 2013, 40, 2702-2712.	2.4	14
74	Petrography and geochronology of the Pele Mountain quartz-pebble conglomerate uranium deposit, Elliot Lake District, Canada. American Mineralogist, 2012, 97, 1274-1283.	1.9	13
75	Structural and biological control of the Cenozoic epithermal uranium concentrations from the Sierra PeÃ±a Blanca, Mexico. Mineralium Deposita, 2012, 47, 859-874.	4.1	15
76	Framboidal iron oxide: Chondrite-like material from the black mat, Murray Springs, Arizona. Earth and Planetary Science Letters, 2012, 319-320, 251-258.	4.4	22
77	Theoretical Study of the Reduction of Uranium(VI) Aquo Complexes on Titania Particles and by Alcohols. Chemistry - A European Journal, 2012, 18, 7117-7127.	3.3	29
78	The turquoise-chalcosiderite Cu(Al,Fe3+)6(PO4)4(OH)8{middle dot}4H2O solid-solution series: A Mossbauer spectroscopy, XRD, EMPA, and FTIR study. American Mineralogist, 2011, 96, 1433-1442.	1.9	20
79	Decoupling of O and Pb isotope systems of uraninite in the early Proterozoic Conglomerates in the Elliot Lake district. Chemical Geology, 2011, 288, 1-13.	3.3	15
80	Wet oxidation of stainless steels: New insights into hydrogen ingress. Corrosion Science, 2011, 53, 1633-1638.	6.6	22
81	O and H diffusion in uraninite: Implications for fluidâ€“uraninite interactions, nuclear waste disposal, and nuclear forensics. Geochimica Et Cosmochimica Acta, 2011, 75, 3677-3686.	3.9	14
82	An experimental study of the diffusion of C and O in calcite in mixed CO2-H2O fluid. American Mineralogist, 2011, 96, 1262-1269.	1.9	22
83	The oxygen isotopic composition of uranium minerals: A review. Ore Geology Reviews, 2011, 41, 1-21.	2.7	40
84	A new approach to measuring D/H ratios with the Cameca IMS-7F. Surface and Interface Analysis, 2011, 43, 458-461.	1.8	8
85	Clay acquisition and processing strategies during the first millennium A.D. in the Thukela River basin, South Africa: An ethnoarchaeological approach. Geoarchaeology - an International Journal, 2011, 26, 762-785.	1.5	12
86	A secondary ion mass spectrometry (SIMS) re-evaluation of B and Li isotopic compositions of Cu-bearing elbaite from three global localities. Mineralogical Magazine, 2011, 75, 2485-2494.	1.4	30
87	THE WORLD'S OLDEST OBSERVED PRIMARY URANINITE. Canadian Mineralogist, 2011, 49, 1199-1210.	1.0	24
88	Extreme sulphur isotope fractionation in the deep Cretaceous biosphere. Journal of the Geological Society, 2010, 167, 1009-1018.	2.1	22
89	Boron and lithium isotopic compositions as provenance indicators of Cu-bearing tourmalines. Mineralogical Magazine, 2010, 74, 241-255.	1.4	15
90	Uranium-rich opal from the Nopal I uranium deposit, PeÃ±a Blanca, Mexico: Evidence for the uptake and retardation of radionuclides. Geochimica Et Cosmochimica Acta, 2010, 74, 187-202.	3.9	24

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91	Combining visual and geochemical analyses to source chert on Southern Baffin Island, Arctic Canada. Geoarchaeology - an International Journal, 2009, 24, 429-449.	1.5	30
92	Genesis of Middle Miocene Yellowstone hotspot-related bonanza epithermal Auâ€“Ag deposits, Northern Great Basin, USA. Mineralium Deposita, 2008, 43, 715-734.	4.1	46
93	A new approach to determining the geological provenance of turquoise artifacts using hydrogen and copper stable isotopes. Journal of Archaeological Science, 2008, 35, 1355-1369.	2.4	54
94	Stratigraphy of the PB-1 Well, Nopal I Uranium Deposit, Sierra PeÃ±a Blanca, Chihuahua, Mexico. International Geology Review, 2008, 50, 959-974.	2.1	9
95	Mechanisms of rhyolitic glass hydration below the glass transition. American Mineralogist, 2008, 93, 1166-1178.	1.9	54
96	Experimental investigation of the breakdown of dolomite in rock cores at 100 MPa, 650-750 ÂC. American Mineralogist, 2007, 92, 510-517.	1.9	4
97	MOD Buffer/YBCO Approach to Fabricate Low-Cost Second Generation HTS Wires. IEEE Transactions on Applied Superconductivity, 2007, 17, 3332-3335.	1.7	22
98	Diatoms in space: testing prospects for reliable diatom nanotechnology in microgravity. , 2007, , .		1
99	Early quartz cements and evolution of paleohydraulic properties of basal sandstones in three Paleoproterozoic continental basins: Evidence from in situ Î´18O analysis of quartz cements. Chemical Geology, 2007, 238, 19-37.	3.3	40
100	Obsidian hydration: A new paleothermometer. Geology, 2006, 34, 517.	4.4	20
101	THE APPLICATION OF HRTEM TECHNIQUES AND NANOSIMS TO CHEMICALLY AND ISOTOPICALLY CHARACTERIZE GEOBACTER SULFURREDUCENS SURFACES. Canadian Mineralogist, 2005, 43, 1631-1641.	1.0	23
102	Mineral paragenesis and textures associated with sandstone-hosted roll-front uranium deposits, NW China. Ore Geology Reviews, 2005, 26, 51-69.	2.7	79
103	Evidence of uranium biomineralization in sandstone-hosted roll-front uranium deposits, northwestern China. Ore Geology Reviews, 2005, 26, 198-206.	2.7	108
104	Petrography and genetic history of coffinite and uraninite from the Liueryiqi granite-hosted uranium deposit, SE China. Ore Geology Reviews, 2005, 26, 187-197.	2.7	40
105	Natural arsenic contamination of Holocene alluvial aquifers by linked tectonic, weathering, and microbial processes. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	85
106	Textural, Compositional, and Sulfur Isotope Variations of Sulfide Minerals in the Red Dog Zn-Pb-Ag Deposits, Brooks Range, Alaska: Implications for Ore Formation. Economic Geology, 2004, 99, 1509-1532.	3.8	155
107	Diffusion of C and O in calcite from 0.1 to 200 MPa. American Mineralogist, 2004, 89, 799-806.	1.9	24
108	Coupled cation and oxygen-isotope exchange between alkali feldspar and aqueous chloride solution. American Mineralogist, 2004, 89, 1822-1825.	1.9	76

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109	Sulfur isotope microanalysis of sphalerite by SIMS: constraints on the genesis of Mississippi valley-type mineralization, from the Mascot-Jefferson City district, East Tennessee. Journal of Geochemical Exploration, 2003, 80, 277-296.	3.2	43
110	Oxygen isotopic composition of nano-scale uraninite at the Oklo-OkÃ©lobondo natural fission reactors, Gabon. American Mineralogist, 2003, 88, 1583-1590.	1.9	12
111	U AND Pb ISOTOPE ANALYSIS OF URANIUM MINERALS BY ION MICROPROBE AND THE GEOCHRONOLOGY OF THE McARTHUR RIVER AND SUE ZONE URANIUM DEPOSITS, SASKATCHEWAN, CANADA. Canadian Mineralogist, 2002, 40, 1553-1570.	1.0	74
112	In Situ Isotopic Analysis of Uraninite Microstructures from the Oklo-OkÃ©lobondo Natural Fission Reactors, Gabon. Materials Research Society Symposia Proceedings, 2002, 713, 1.	0.1	3
113	O and Pb isotopic analyses of uranium minerals by ion microprobe and Uâ€“Pb ages from the Cigar Lake deposit. Chemical Geology, 2002, 185, 205-225.	3.3	84
114	In situ Stable Isotopic Evidence for Protracted and Complex Carbonate Cementation in a Petroleum Reservoir, North Coles Levee, San Joaquin Basin, California, U.S.A. Journal of Sedimentary Research, 2001, 71, 444-458.	1.6	77
115	Micro-structures associated with uraninite alteration. Journal of Nuclear Materials, 2000, 277, 204-210.	2.7	22
116	Low temperature oxygen isotopic fractionation in the uraniniteâ€“UO3â€“CO2â€“H2O system. Geochimica Et Cosmochimica Acta, 2000, 64, 2185-2197.	3.9	38
117	A Rapid In Situ Method for Determining the Ages of Uranium Oxide Minerals: Evolution of the Cigar Lake Deposit, Athabasca Basin. International Geology Review, 2000, 42, 163-171.	2.1	32
118	4. Stable Isotope Geochemistry of Uranium Deposits. , 1999, , 181-220.		4
119	Mineral chemistry and oxygen isotopic analyses of uraninite, pitchblende and uranium alteration minerals from the Cigar Lake deposit, Saskatchewan, Canada. Applied Geochemistry, 1997, 12, 549-565.	3.0	74
120	Characteristics of auriferous and barren fluids associated with the Proterozoic Contact Lake lode gold deposit, Saskatchewan, Canada. Economic Geology, 1995, 90, 385-406.	3.8	10
121	Formation Temperature and Ages of the True North â€˜Orogenicâ€™ Gold Deposit in Manitoba, Canada. Geological Society Special Publication, 0, , SP516-2020-111.	1.3	0
122	Complex iron and sulphate reducing Cretaceous sedimentary system revealed by extreme isotope values. Terra Nova, 0, , .	2.1	0