Marguerite Godard

List of Publications by Year
in descending order

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101 papers	6,549 citations	66250 44 h-index	78623 77 g-index

117 all docs	117 docs citations	117 times ranked	3960 citing authors

#	Article	IF	Citations
1	Deep Sourced Fluids for Peridotite Carbonation in the Shallow Mantle Wedge of a Fossil Subduction Zone: Sr and C Isotope Profiles of OmanDP Hole BT1B. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	11
2	Listvenite Formation During Mass Transfer into the Leading Edge of the Mantle Wedge: Initial Results from Oman Drilling Project Hole BT1B. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	11
3	Geochemical Characterization of the Oman Crustâ€Mantle Transition Zone, OmanDP Holes CM1A and CM2B. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	3
4	Magmatic Response to Subduction Initiation, Part II: Boninites and Related Rocks of the Izuâ€Bonin Arc From IODP Expedition 352. Geochemistry, Geophysics, Geosystems, 2021, 22, .	1.0	52
5	Intracrystalline melt migration in deformed olivine revealed by trace element compositions and polyphase solid inclusions. European Journal of Mineralogy, 2021, 33, 463-477.	0.4	4
6	Crack geometry of serpentinized peridotites inferred from onboard ultrasonic data from the Oman Drilling Project. Tectonophysics, 2021, 814, 228978.	0.9	6
7	Osmium isotope evidence for rapid melt migration towards the Moho in the Oman ophiolite. Earth and Planetary Science Letters, 2021, 572, 117111.	1.8	4
8	Seismic faults triggered early stage serpentinization of peridotites from the Samail Ophiolite, Oman. Earth and Planetary Science Letters, 2021, 574, 117137.	1.8	5
9	The Composition of the Lower Oceanic Crust in the Wadi Khafifah Section of the Southern Samail (Oman) Ophiolite. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021986.	1.4	12
10	Mineralogical and geochemical study of serpentinized peridotites from the North-Western Pyrenees: New insights on serpentinization along magma-poor continental passive margins. Lithos, 2021, 406-407, 106521.	0.6	1
11	Geochemical Profiles Across the Listveniteâ€Metamorphic Transition in the Basal Megathrust of the Semail Ophiolite: Results From Drilling at OmanDP Hole BT1B. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022733.	1.4	13
12	Initial Results From the Oman Drilling Project Multiâ€Borehole Observatory: Petrogenesis and Ongoing Alteration of Mantle Peridotite in the Weathering Horizon. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022729.	1.4	16
13	Ligurian pyroxenite-peridotite sequences (Italy) and the role of melt-rock reaction in creating enriched-MORB mantle sources. Chemical Geology, 2020, 532, 119252.	1.4	17
14	Fingerprinting and relocating tectonic slices along the plate interface: Evidence from the Lago Superiore unit at Monviso (Western Alps). Lithos, 2020, 352-353, 105308.	0.6	9
15	Textural and Compositional Changes in the Lithospheric Mantle Atop the Hawaiian Plume: Consequences for Seismic Properties. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009138.	1.0	9
16	Retrieving timescales of oceanic crustal evolution at Oceanic Core Complexes: Insights from diffusion modelling of geochemical profiles in olivine. Lithos, 2020, 376-377, 105727.	0.6	8
17	Permeability Profiles Across the Crustâ€Mantle Sections in the Oman Drilling Project Inferred From Dry and Wet Resistivity Data. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018698.	1.4	16
18	Ophicarbonate evolution from seafloor to subduction and implications for deep-Earth C cycling. Chemical Geology, 2020, 546, 119626.	1.4	21

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19	Petrology and Geochemistry of Serpentinites Associated with the Ultra-High Pressure Lago di Cignana Unit (Italian Western Alps). Journal of Petrology, 2019, 60, 1229-1262.	1.1	20
20	Radiogenic isotopes document the start of subduction in the Western Pacific. Earth and Planetary Science Letters, 2019, 518, 197-210.	1.8	90
21	Multi-stage Reactive Formation of Troctolites in Slow-spreading Oceanic Lithosphere (Erroâ€“Tobbio,) Tj ETQq1 1 0.784314 rgBT /Ove	1.1	24
22	Control of CO2 on flow and reaction paths in olivine-dominated basements: An experimental study. Geochimica Et Cosmochimica Acta, 2019, 252, 16-38.	1.6	9
23	Magmatic Response to Subduction Initiation: Part 1. Foreâ€arc Basalts of the Izuâ€Bonin Arc From IODP Expedition 352. Geochemistry, Geophysics, Geosystems, 2019, 20, 314-338.	1.0	113
24	From mantle peridotites to hybrid troctolites: Textural and chemical evolution during melt-rock interaction history (Mt. Maggiore, Corsica, France). Lithos, 2018, 323, 4-23.	0.6	29
25	Melt transport and mantle assimilation at Atlantis Massif (IODP Site U1309): Constraints from geochemical modeling. Lithos, 2018, 323, 24-43.	0.6	42
26	In situ carbon mineralization in ultramafic rocks: Natural processes and possible engineered methods. Energy Procedia, 2018, 146, 92-102.	1.8	30
27	Experimental study of the effects of solute transport on reaction paths during incipient serpentinization. Lithos, 2018, 323, 191-207.	0.6	11
28	Mantle Wedge (De)formation During Subduction Infancy: Evidence from the Base of the Semail Ophiolitic Mantle. Journal of Petrology, 2018, 59, 2061-2092.	1.1	26
29	Evidence of polygenetic carbon trapping in the Oman Ophiolite: Petro-structural, geochemical, and carbon and oxygen isotope study of the Wadi Dima harzburgite-hosted carbonates (Wadi Tayin massif,) Tj ETQq1 1 0.784314 rgBT /Ove	1.1	45
30	Subduction initiation and ophiolite crust: new insights from IODP drilling. International Geology Review, 2017, 59, 1439-1450.	1.1	145
31	Application of a handheld X-ray fluorescence spectrometer for real-time, high-density quantitative analysis of drilled igneous rocks and sediments during IODP Expedition 352. Chemical Geology, 2017, 451, 55-66.	1.4	44
32	Tectonic structure, evolution, and the nature of oceanic core complexes and their detachment fault zones (13Â°20â€²N and 13Â°30â€²N, Mid Atlantic Ridge). Geochemistry, Geophysics, Geosystems, 2017, 18, 1451-1482.	1.0	94
33	Chemical interactions in the subduction factory: New insights from an in situ trace element and hydrogen study of the Ichinomegata and Oki-Dogo mantle xenoliths (Japan). Geochimica Et Cosmochimica Acta, 2017, 208, 234-267.	1.6	20
34	Felsic Plutonic Rocks from IODP Hole 1256D, Eastern Pacific: Implications for the Nature of the Axial Melt Lens at Fast-Spreading Mid-Ocean Ridges. Journal of Petrology, 2017, 58, 1535-1565.	1.1	20
35	Linking serpentinite geochemistry with tectonic evolution at the subduction plate-interface: The Voltri Massif case study (Ligurian Western Alps, Italy). Geochimica Et Cosmochimica Acta, 2016, 190, 115-133.	1.6	53
36	From rifting to mountain building: The Pyrenean Belt. Comptes Rendus - Geoscience, 2016, 348, 169-171.	0.4	0

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37	Trace element evidence for anatexis at oceanic magma chamber roofs and the role of partial melts for contamination of fresh MORB. Lithos, 2016, 260, 1-8.	0.6	18
38	First direct observation of coseismic slip and seafloor rupture along a submarine normal fault and implications for fault slip history. Earth and Planetary Science Letters, 2016, 450, 96-107.	1.8	21
39	Melt/rock reaction at oceanic peridotite/gabbro transition as revealed by trace element chemistry of olivine. Geochimica Et Cosmochimica Acta, 2016, 190, 309-331.	1.6	28
40	Evidence for chemically heterogeneous Arctic mantle beneath the Gakkel Ridge. Geochimica Et Cosmochimica Acta, 2016, 174, 291-312.	1.6	51
41	Carbonate mineralization in percolated olivine aggregates: Linking effects of crystallographic orientation and fluid flow. American Mineralogist, 2015, 100, 474-482.	0.9	30
42	CO2 geological storage in olivine rich basaltic aquifers: New insights from reactive-percolation experiments. Applied Geochemistry, 2015, 52, 174-190.	1.4	39
43	B, Sr and Pb isotope geochemistry of high-pressure Alpine metaperidotites monitors fluid-mediated element recycling during serpentinite dehydration in subduction mÃ©lange (Cima di Gagnone, Swiss) Tj ETQq1 1 0.784314 rgBT /Ov	1.8	8
44	Serpentinization and Fluid Pathways in Tectonically Exhumed Peridotites from the Southwest Indian Ridge (62-65ÂE). Journal of Petrology, 2015, 56, 703-734.	1.1	70
45	Anatexis at the roof of an oceanic magma chamber at IODP Site 1256 (equatorial Pacific): an experimental study. Contributions To Mineralogy and Petrology, 2015, 169, 1.	1.2	29
46	Orogenic, Ophiolitic, and Abyssal Peridotites. , 2014, , 103-167.		119
47	Formation and Evolution of Oceanic Lithosphere: New Insights on Crustal Structure and Igneous Geochemistry from ODP/IODP Sites 1256, U1309, and U1415. Developments in Marine Geology, 2014, , 449-505.	0.4	10
48	Primitive layered gabbros from fast-spreading lower oceanic crust. Nature, 2014, 505, 204-207.	13.7	125
49	Petrology and Trace Element Budgets of High-pressure Peridotites Indicate Subduction Dehydration of Serpentinized Mantle (Cima di Gagnone, Central Alps, Switzerland). Journal of Petrology, 2014, 55, 459-498.	1.1	90
50	Contamination of MORB by anatexis of magma chamber roof rocks: Constraints from a geochemical study of experimental melts and associated residues. Lithos, 2014, 202-203, 120-137.	0.6	35
51	Tectonic structure, lithology, and hydrothermal signature of the Rainbow massif (Mid-Atlantic Ridge) Tj ETQq1 1 0.784314 rgBT /Over	1.0	69
52	Geochemistry of subduction zone serpentinites: A review. Lithos, 2013, 178, 96-127.	0.6	514
53	A mineralogical and geochemical study of polymict eucrite discovered in Sahara of southwest Algeria. Arabian Journal of Geosciences, 2013, 6, 3175-3184.	0.6	1
54	High-pressure serpentinites, a trap-and-release system controlled by metamorphic conditions: Example from the Piedmont zone of the western Alps. Chemical Geology, 2013, 343, 38-54.	1.4	83

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55	Pervasive reactive melt migration through fast-spreading lower oceanic crust (Hess Deep, equatorial) Tj ETQq1 1 0.784314 rgBT /Overlo	1.8	149
56	Incipient hydration of mantle lithosphere at ridges: A reactive-percolation experiment. Earth and Planetary Science Letters, 2013, 371-372, 92-102.	1.8	50
57	Trace element behavior during serpentinization/de-serpentinization of an eclogitized oceanic lithosphere: A LA-ICPMS study of the Lanzo ultramafic massif (Western Alps). Chemical Geology, 2013, 357, 117-133.	1.4	59
58	Three steps of serpentinization in an eclogitized oceanic serpentinization front (Lanzo Massif â€“) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	76
59	Behavior of fluid-mobile elements in serpentines from abyssal to subduction environments: Examples from Cuba and Dominican Republic. Chemical Geology, 2012, 312-313, 93-117.	1.4	94
60	Drilling constraints on lithospheric accretion and evolution at Atlantis Massif, Mid-Atlantic Ridge 30Â°N. Journal of Geophysical Research, 2011, 116, .	3.3	112
61	Serpentinites act as sponges for fluidâ€mobile elements in abyssal and subduction zone environments. Terra Nova, 2011, 23, 171-178.	0.9	125
62	Composition and Genesis of Depleted Mantle Peridotites from the Wadi Tayin Massif, Oman Ophiolite; Major and Trace Element Geochemistry, and Os Isotope and PGE Systematics. Journal of Petrology, 2010, 51, 201-227.	1.1	152
63	A microstructural imprint of melt impregnation in slow spreading lithosphere: Olivineâ€rich troctolites from the Atlantis Massif, Midâ€Atlantic Ridge, 30Â°N, IODP Hole U1309D. Geochemistry, Geophysics, Geosystems, 2010, 11, .	1.0	48
64	In situ characterization of serpentinites from forearc mantle wedges: Timing of serpentinization and behavior of fluid-mobile elements in subduction zones. Chemical Geology, 2010, 269, 262-277.	1.4	152
65	Platinumâ€group element signature of the primitive mantle rejuvenated by meltâ€rock reactions: evidence from Sumail peridotites (Oman Ophiolite). Terra Nova, 2009, 21, 35-40.	0.9	48
66	Experimental Study of Carbon Sequestration Reactions Controlled by the Percolation of CO₂-Rich Brine through Peridotites. Environmental Science & Technology, 2009, 43, 1226-1231.	4.6	197
67	Geochemistry of a long in-situ section of intrusive slow-spread oceanic lithosphere: Results from IODP Site U1309 (Atlantis Massif, 30Â°N Mid-Atlantic-Ridge). Earth and Planetary Science Letters, 2009, 279, 110-122.	1.8	144
68	Geochemical and petrographic evidence for magmatic impregnation in the oceanic lithosphere at Atlantis Massif, Mid-Atlantic Ridge (IODP Hole U1309D, 30Â°N). Chemical Geology, 2009, 264, 71-88.	1.4	134
69	Migration and accumulation of ultra-depleted subduction-related melts in the Massif du Sud ophiolite (New Caledonia). Chemical Geology, 2009, 266, 171-186.	1.4	90
70	Geochemistry of the highly depleted peridotites drilled at ODP Sites 1272 and 1274 (Fifteen-Twenty) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Earth and Planetary Science Letters, 2008, 267, 410-425.	1.8	167
71	Oceanic core complexes and crustal accretion at slow-spreading ridges. Geology, 2007, 35, 623.	2.0	302
72	Orogenic, Ophiolitic, and Abyssal Peridotites. , 2007, , 1-73.		16

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73	Origin and emplacement of ultramaficâ€“mafic intrusions in the Erro-Tobbio mantle peridotite (Ligurian) Tj ETQq1 1 0.784314 rgBT /O	0.6	67
74	Deformation and melt transport in a highly depleted peridotite massif from the Canadian Cordillera: Implications to seismic anisotropy above subduction zones. Earth and Planetary Science Letters, 2006, 252, 245-259.	1.8	60
75	A MORB source for low-Ti magmatism in the Semail ophiolite. Chemical Geology, 2006, 234, 58-78.	1.4	119
76	Geochemistry of abyssal peridotites (Mid-Atlantic Ridge, 15Â°20â€²N, ODP Leg 209): Implications for fluid/rock interaction in slow spreading environments. Chemical Geology, 2006, 234, 179-210.	1.4	360
77	Petrogenesis of highly depleted peridotites and gabbroic rocks from the MayarÃ-Baracoa Ophiolitic Belt (eastern Cuba). Contributions To Mineralogy and Petrology, 2006, 151, 717-736.	1.2	103
78	Enrichment of HFSE in chlorite-harzburgite produced by high-pressure dehydration of antigorite-serpentinite: Implications for subduction magmatism. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	1.0	81
79	Origin and evolution of magmas on the Ontong Java Plateau. Geological Society Special Publication, 2004, 229, 151-178.	0.8	131
80	Phreatomagmatic eruptions on the Ontong Java Plateau: chemical and isotopic relationship to Ontong Java Plateau basalts. Geological Society Special Publication, 2004, 229, 307-323.	0.8	14
81	Seismic anisotropy and compositionally induced velocity anomalies in the lithosphere above mantle plumes: a petrological and microstructural study of mantle xenoliths from French Polynesia. Earth and Planetary Science Letters, 2004, 227, 539-556.	1.8	89
82	Magmatic cycles and formation of the upper oceanic crust at spreading centers: Geochemical study of a continuous extrusive section in the Oman ophiolite. Geochemistry, Geophysics, Geosystems, 2003, 4, n/a-n/a.	1.0	30
83	Geochemical variability of the Oman ophiolite lavas: Relationship with spatial distribution and paleomagnetic directions. Geochemistry, Geophysics, Geosystems, 2003, 4, n/a-n/a.	1.0	118
84	PLUME investigates South Pacific Superswell. Eos, 2002, 83, 511.	0.1	27
85	Significance of gabbronorite occurrence in the crustal section of the Semail ophiolite. Marine Geophysical Researches, 2000, 21, 307-326.	0.5	69
86	Title is missing!. Marine Geophysical Researches, 2000, 21, 387-408.	0.5	30
87	Relationships between geochemistry and structure beneath a palaeo-spreading centre: a study of the mantle section in the Oman ophiolite. Earth and Planetary Science Letters, 2000, 180, 133-148.	1.8	268
88	A plate model for the simulation of trace element fractionation during partial melting and magma transport in the Earth's upper mantle. Journal of Geophysical Research, 1997, 102, 24771-24784.	3.3	173
89	Effects of mineralogical reactions on trace element redistributions in mantle rocks during percolation processes: A chromatographic approach. Earth and Planetary Science Letters, 1995, 133, 449-461.	1.8	115
90	Magma chambers at oceanic ridges: How large?. Geology, 1993, 21, 53.	2.0	53

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91	Expedition 352 summary. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	9
92	Expedition 352 methods. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	32
93	Site U1439. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	9
94	Site U1440. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	6
95	Site U1441. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	5
96	Site U1442. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	5
97	Data report: microprobe analyses of primary mineral phases from Site U1309, Atlantis Massif, IODP Expedition 304/305. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	14
98	Scientific Drilling and Related Research in the Samail Ophiolite, Sultanate of Oman. Scientific Drilling, 0, 15, 64-71.	1.0	18
99	Petrologic and geochemical role of serpentinite in subduction zones and plate interface domains. Rendiconti Online Societa Geologica Italiana, 0, 37, 61-64.	0.3	1
100	Developing community-based scientific priorities and new drilling proposals in the southern Indian and southwestern Pacific oceans. Scientific Drilling, 0, 24, 61-70.	1.0	2
101	Ship-board determination of whole-rock (ultra-)trace element concentrations by laser ablation-inductively coupled plasma mass spectrometry analysis of pressed powder pellets aboard the D/V <i>Chikyu</i>. Scientific Drilling, 0, 30, 75-99.	1.0	2