

# Jean-Louis Bodinier

## List of Publications by Year in descending order

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82  
papers

6,058  
citations

66343

42  
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69250

77  
g-index

86  
all docs

86  
docs citations

86  
times ranked

2780  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of Mantle Metasomatism: Geochemical Evidence from the Lherz Orogenic Peridotite. <i>Journal of Petrology</i> , 1990, 31, 597-628.	2.8	411
2	The Lherz spinel lherzolite: Refertilized rather than pristine mantle. <i>Earth and Planetary Science Letters</i> , 2007, 259, 599-612.	4.4	305
3	Relationships between geochemistry and structure beneath a palaeo-spreading centre: a study of the mantle section in the Oman ophiolite. <i>Earth and Planetary Science Letters</i> , 2000, 180, 133-148.	4.4	268
4	Diversity of Mafic Rocks in the Ronda Peridotite: Evidence for Pervasive Melt-Rock Reaction during Heating of Subcontinental Lithosphere by Upwelling Asthenosphere. <i>Journal of Petrology</i> , 1999, 40, 729-754.	2.8	213
5	Al- and Cr-rich chromitites from the Mayari-Baracoa ophiolitic belt (eastern Cuba); consequence of interaction between volatile-rich melts and peridotites in suprasubduction mantle. <i>Economic Geology</i> , 1999, 94, 547-566.	3.8	193
6	Submarine reworking of exhumed subcontinental mantle rocks: field evidence from the Lherz peridotites, French Pyrenees. <i>Terra Nova</i> , 2008, 20, 11-21.	2.1	189
7	Origin of Pyroxenite-Peridotite Veined Mantle by Refertilization Reactions: Evidence from the Ronda Peridotite (Southern Spain). <i>Journal of Petrology</i> , 2008, 49, 999-1025.	2.8	180
8	A plate model for the simulation of trace element fractionation during partial melting and magma transport in the Earth's upper mantle. <i>Journal of Geophysical Research</i> , 1997, 102, 24771-24784.	3.3	173
9	Petrogenesis of Mafic Garnet Granulite in the Lower Crust of the Kohistan Paleo-arc Complex (Northern Pakistan): Implications for Intra-crustal Differentiation of Island Arcs and Generation of Continental Crust. <i>Journal of Petrology</i> , 2006, 47, 1873-1914.	2.8	172
10	Geochemical evidence for melt migration and reaction in the upper mantle. <i>Nature</i> , 1992, 359, 55-58.	27.8	170
11	Geochemistry and petrogenesis of Eastern Pyrenean peridotites. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 2893-2907.	3.9	158
12	Distribution of incompatible trace elements between the constituents of spinel peridotite xenoliths: ICP-MS data from the East African rift. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3883-3900.	3.9	157
13	Petrogenesis of layered pyroxenites from the Lherz, Freychin and Prades ultramafic bodies (Ariège). <i>Tectonophysics</i> , 1988, 149, 67-88.	3.9	156
14	Geochemistry and petrogenesis of the Lanzo peridotite body, western Alps. <i>Tectonophysics</i> , 1988, 149, 67-88.	2.2	146
15	Distribution of niobium, tantalum, and other highly incompatible trace elements in the lithospheric mantle: The spinel paradox. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 545-550.	3.9	131
16	Multistage evolution of the Jijal ultramafic-mafic complex (Kohistan, N Pakistan): Implications for building the roots of island arcs. <i>Earth and Planetary Science Letters</i> , 2007, 261, 179-200.	4.4	126
17	Origin of Fe-rich lherzolites and wehrlites from Tok, SE Siberia by reactive melt percolation in refractory mantle peridotites. <i>Contributions To Mineralogy and Petrology</i> , 2005, 150, 335-353.	3.1	120
18	Contrasting lithospheric mantle domains beneath the Massif Central (France) revealed by geochemistry of peridotite xenoliths. <i>Earth and Planetary Science Letters</i> , 2000, 181, 359-375.	4.4	117

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19	Effects of mineralogical reactions on trace element redistributions in mantle rocks during percolation processes: A chromatographic approach. <i>Earth and Planetary Science Letters</i> , 1995, 133, 449-461.	4.4	115
20	Volatile-rich Metasomatism in Montferrier Xenoliths (Southern France): Implications for the Abundances of Chalcophile and Highly Siderophile Elements in the Subcontinental Mantle. <i>Journal of Petrology</i> , 2011, 52, 2009-2045.	2.8	107
21	Deformation and Reactive Melt Transport in the Mantle Lithosphere above a Large-scale Partial Melting Domain: the Ronda Peridotite Massif, Southern Spain. <i>Journal of Petrology</i> , 2009, 50, 1235-1266.	2.8	102
22	Ultramafic Xenoliths from the Bearpaw Mountains, Montana, USA: Evidence for Multiple Metasomatic Events in the Lithospheric Mantle beneath the Wyoming Craton. <i>Journal of Petrology</i> , 2004, 45, 1631-1662.	2.8	97
23	Copper and Noble Metal Enrichments Across the Lithosphere–Asthenosphere Boundary of Mantle Diapirs: Evidence from the Lanzo Lherzolite Massif. <i>Journal of Petrology</i> , 1993, 34, 1111-1140.	2.8	96
24	Geochemical Architecture of the Lower- to Middle-crustal Section of a Paleo-island Arc (Kohistan) Subduction Zone. <i>Journal of Petrology</i> , 2009, 50, 531-569.	2.8	96
25	Petrogenetic evolution of orogenic lherzolite massifs in the central and western Pyrenees. <i>Tectonophysics</i> , 1998, 292, 145-167.	2.2	92
26	Translithospheric Mantle Diapirism: Geological Evidence and Numerical Modelling of the Kondyor Zoned Ultramafic Complex (Russian Far-East). <i>Journal of Petrology</i> , 2009, 50, 289-321.	2.8	90
27	Petrology and metamorphic evolution of ultramafic rocks and dolerite dykes of the Betic Ophiolitic Association (Mulhac�n Complex, SE Spain): evidence of eo-Alpine subduction following an ocean-floor metasomatic process. <i>Lithos</i> , 1999, 49, 23-56.	1.4	86
28	Incompatible trace element partitioning and residence in anhydrous spinel peridotites and websterites from the Ronda orogenic peridotite. <i>Earth and Planetary Science Letters</i> , 2000, 181, 341-358.	4.4	86
29	Origin of the island arc Moho transition zone via melt-rock reaction and its implications for intracrustal differentiation of island arcs: Evidence from the Jijal complex (Kohistan complex).	1.4	86
30	Metasomatic interactions in the lithospheric mantle: petrologic evidence from the Lherz massif, French Pyrenees. <i>Chemical Geology</i> , 1996, 134, 83-112.	3.3	82
31	Enrichment of HFSE in chlorite-harzburgite produced by high-pressure dehydration of antigorite-serpentinite: Implications for subduction magmatism. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	81
32	Melt percolation and reaction atop a plume: evidence from the poikiloblastic peridotite xenoliths from Bor�e (Massif Central, France). <i>Contributions To Mineralogy and Petrology</i> , 1998, 132, 65-84.	3.1	76
33	Evidence for Modal Metasomatism in the Orogenic Spinel Lherzolite Body from Caussou (Northeastern Pyrenees, France). <i>Journal of Petrology</i> , 1989, 30, 199-228.	2.8	74
34	Isotopic decoupling during porous melt flow: A case-study in the Lherz peridotite. <i>Earth and Planetary Science Letters</i> , 2009, 279, 76-85.	4.4	72
35	Trace element distribution in peridotite xenoliths from Tok, SE Siberian craton: A record of pervasive, multi-stage metasomatism in shallow refractory mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1231-1260.	3.9	71
36	Geochemistry and Sr�Nd isotopic compositions of mantle xenoliths from the Monte Vulture carbonatite�melilitite volcano, central southern Italy. <i>Contributions To Mineralogy and Petrology</i> , 2002, 144, 78-92.	3.1	69

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37	Building an island-arc crustal section: Time constraints from a LA-ICP-MS zircon study. <i>Earth and Planetary Science Letters</i> , 2011, 309, 268-279.	4.4	68
38	Geochemistry of Precambrian ophiolites from Bou Azzer, Morocco. <i>Contributions To Mineralogy and Petrology</i> , 1984, 87, 43-50.	3.1	66
39	Lithospheric mantle beneath the south-eastern Siberian craton: petrology of peridotite xenoliths in basalts from the Tokinsky Stanovik. <i>Contributions To Mineralogy and Petrology</i> , 2005, 149, 647-665.	3.1	53
40	Magma and fluid percolation in arc to forearc mantle: Evidence from Sapat (Kohistan, Northern Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.4	46
41	Mantle refertilization by melts of crustal-derived garnet pyroxenite: Evidence from the Ronda peridotite massif, southern Spain. <i>Earth and Planetary Science Letters</i> , 2013, 362, 66-75.	4.4	44
42	Electron microprobe determination of minor and trace transition elements in silicate minerals: A method and its application to mineral zoning in the peridotite nodule PHN 1611. <i>Chemical Geology</i> , 1990, 83, 55-69.	3.3	43
43	A Late Oligocene Suprasubduction Setting in the Westernmost Mediterranean Revealed by Intrusive Pyroxenite Dikes in the Ronda Peridotite (Southern Spain). <i>Journal of Geology</i> , 2012, 120, 237-247.	1.4	43
44	Petrology and geochemistry of granulite xenoliths from Central Hoggar (Algeria) ? Implications for the lower crust. <i>Contributions To Mineralogy and Petrology</i> , 1982, 79, 68-75.	3.1	37
45	Isotopic (O, Sr, Nd) and trace element geochemistry of the Laouni layered intrusions (Pan-African belt,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 62 by continental crust. <i>Lithos</i> , 1998, 45, 197-222.	1.4	37
46	Persistence of mantle lithospheric Reâ€“Os signature during asthenospherization of the subcontinental lithospheric mantle: insights from in situ isotopic analysis of sulfides from the Ronda peridotite (Southern Spain). <i>Contributions To Mineralogy and Petrology</i> , 2010, 159, 315-330.	3.1	37
47	Geochemistry of basic dikes in the Lanzo massif (Western Alps): Petrogenetic and geodynamic implications. <i>Tectonophysics</i> , 1986, 128, 77-95.	2.2	36
48	Geochemistry of metabasites from the Nevado-Filabride complex, betic cordilleras, Spain: Relics of a dismembered ophiolitic sequence. <i>Lithos</i> , 1987, 20, 235-245.	1.4	35
49	Phosphate Rocks: A Review of Sedimentary and Igneous Occurrences in Morocco. <i>Minerals (Basel,)</i> Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 62	2.0	35
50	Geochemistry of ophiolites from the Chamrousse complex (Belledonne Massif, Alps). <i>Contributions To Mineralogy and Petrology</i> , 1982, 78, 379-388.	3.1	30
51	Growth of the European lithospheric mantleâ€“dependence of upper-mantle peridotite facies and chemical heterogeneity on tectonics and age. <i>Physics of the Earth and Planetary Interiors</i> , 1993, 79, 219-240.	1.9	29
52	Geochemistry of metasomatism adjacent to amphibole-bearing veins in the Lherz peridotite massif. <i>Chemical Geology</i> , 1996, 134, 135-157.	3.3	29
53	Fractionation of highly siderophile elements in refertilized mantle: Implications for the Os isotope composition of basalts. <i>Earth and Planetary Science Letters</i> , 2014, 400, 33-44.	4.4	29
54	Diversity of Mafic Rocks in the Ronda Peridotite: Evidence for Pervasive Melt-Rock Reaction during Heating of Subcontinental Lithosphere by Upwelling Asthenosphere. <i>Journal of Petrology</i> , 1999, 40, 729-754.	2.8	28

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55	Nature and Evolution of the Lithospheric Mantle beneath the Hoggar Swell (Algeria): a Record from Mantle Xenoliths. <i>Journal of Petrology</i> , 2014, 55, 2249-2280.	2.8	22
56	Abundance and distribution of gold in the orogenic-type spinel peridotites from Ariège (Northeastern Tj ETQq0 0 0 ggBT /Overlock 10 T	3.9	21
57	Zabargad peridotite: Evidence for multistage metasomatism during Red Sea rifting. <i>Geology</i> , 1991, 19, 722.	4.4	21
58	Metasomatized Mantle Xenoliths as a Record of the Lithospheric Mantle Evolution of the Northern Edge of the Ahaggar Swell, In Teria (Algeria). <i>Journal of Petrology</i> , 2016, 57, 345-382.	2.8	21
59	Petrology and geochemistry of a cumulate xenolith suite from Bute: evidence for late Palaeozoic crustal underplating beneath SW Scotland. <i>Journal of the Geological Society</i> , 2007, 164, 1217-1231.	2.1	19
60	GEM OLIVINE AND CALCITE MINERALIZATION PRECIPITATED FROM SUBDUCTION-DERIVED FLUIDS IN THE KOHISTAN ARC-MANTLE (PAKISTAN). <i>Canadian Mineralogist</i> , 2012, 50, 1291-1304.	1.0	18
61	Short wavelength lateral variability of lithospheric mantle beneath the Middle Atlas (Morocco) as recorded by mantle xenoliths. <i>Tectonophysics</i> , 2015, 650, 34-52.	2.2	18
62	Origin and significance of poikilitic and mosaic peridotite xenoliths in the western Pannonian Basin: geochemical and petrological evidences. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	3.1	17
63	Lithosphere tearing along STEP faults and synkinematic formation of lherzolite and wehrlite in the shallow subcontinental mantle. <i>Solid Earth</i> , 2019, 10, 1099-1121.	2.8	16
64	Refertilization Processes in the Subcontinental Lithospheric Mantle: the Record of the Beni Bousera Orogenic Peridotite (Rif Belt, Northern Morocco). <i>Journal of Petrology</i> , 2016, 57, 2251-2270.	2.8	15
65	Isotope and trace-element heterogeneities in high-grade basic metamorphic rocks of Marvejols: Tectonic implications for the hercynian suture zone of the French Massif Central. <i>Lithos</i> , 1989, 24, 37-54.	1.4	13
66	Subcontinental lithosphere reactivation beneath the Hoggar swell (Algeria): Localized deformation, melt channeling and heat advection. <i>Tectonophysics</i> , 2015, 650, 18-33.	2.2	13
67	The intracontinental High Atlas belt: geological overview and pending questions. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	13
68	Spatial variability of pyroxenite layers in the Beni Bousera orogenic peridotite (Morocco) and implications for their origin. <i>Comptes Rendus - Geoscience</i> , 2016, 348, 619-629.	1.2	12
69	Petrological and geochemical constraints on the origin of apatite ores from Mesozoic alkaline intrusive complexes, Central High-Atlas, Morocco. <i>Ore Geology Reviews</i> , 2021, 136, 104250.	2.7	10
70	Gravity study of the Western Bahira Basin and the Gantour Phosphatic Plateau, central Morocco: Interpretation and hydrogeological implications. <i>Journal of African Earth Sciences</i> , 2022, 193, 104581.	2.0	9
71	An integrated ASTER-based approach for mapping carbonatite and iron oxide-apatite deposits. <i>Geocarto International</i> , 2022, 37, 6579-6601.	3.5	8
72	An Integrated Approach for Rapid Delineation of K-Rich Syenites Suitable as Unconventional Potash Resources. <i>Natural Resources Research</i> , 2021, 30, 3219-3239.	4.7	7

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73	Depositional environment of the Kef Essennoun phosphorites (northeastern Algeria) as revealed by P2O5 modeling and sedimentary data. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	7
74	Highly variable content of fluorapatite-hosted CO <sub>2</sub> in the Upper Cretaceous/Paleogene phosphorites (Morocco) and implications for paleodepositional conditions. <i>Chemical Geology</i> , 2022, 597, 120818.	3.3	7
75	A volcanic district between the Hoggar uplift and the Tenere Rifts: Volcanology, geochemistry and age of the In-Ezzane lavas (Algerian Sahara). <i>Journal of African Earth Sciences</i> , 2014, 92, 14-20.	2.0	6
76	Alkali-Hydrothermal Treatment of K-Rich Igneous Rocks for Their Direct Use as Potassic Fertilizers. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 140.	2.0	6
77	A suture related accretionary wedge in the Gondwana assembly: Insights from serpentinites in the Hoggar shield, Algeria. <i>Precambrian Research</i> , 2022, 369, 106505.	2.7	5
78	Geochemistry and Geochronology of the Neoproterozoic Backarc Basin Khzama Ophiolite (Anti-Atlas) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.0	4
79	Eruption dynamics of pleistocene maars and tuff rings from the Azrou-Timahdite district (Middle) Tj ETQq1 1 0.784314 rgBT /Overlock 11 characteristics. <i>Journal of African Earth Sciences</i> , 2020, 167, 103845.	2.0	3
80	Shallow Mantle Composition and Dynamics: Fifth International Orogenic Lherzolite Conference: Foreword. <i>Journal of Petrology</i> , 2010, 51, 3-7.	2.8	0
81	MetClass: A software for the visualization and exploitation of Dill's (2010) "chessboard" classification of mineral deposits. <i>Computers and Geosciences</i> , 2016, 91, 128-135.	4.2	0
82	Neogene basins in Eastern Rif of Morocco and their potential to host native sulphur. <i>All Earth</i> , 2022, 34, 90-106.	2.1	0