

# Philippe Goncalves

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,900  
citations

218677

26  
h-index

254184

43  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1487  
citing authors

#	ARTICLE	IF	CITATIONS
1	Format and philosophy for collecting, compiling, and reporting microprobe monazite ages. <i>Chemical Geology</i> , 2006, 225, 1-15.	3.3	167
2	Dating metamorphic reactions and fluid flow: application to exhumation of high-P granulites in a crustal-scale shear zone, western Canadian Shield. <i>Journal of Metamorphic Geology</i> , 2006, 24, 193-217.	3.4	161
3	Role of chemical processes on shear zone formation: an example from the Grimsel metagranodiorite (Aar massif, Central Alps). <i>Journal of Metamorphic Geology</i> , 2012, 30, 703-722.	3.4	102
4	Transmission electron microscope study of polyphase and discordant monazites: Site-specific specimen preparation using the focused ion beam technique. <i>Geology</i> , 2003, 31, 973.	4.4	97
5	Dating low-temperature deformation by $^{40}\text{Ar}/^{39}\text{Ar}$ on white mica, insights from the Argentera-Mercantour Massif (SW Alps). <i>Lithos</i> , 2011, 125, 521-536.	1.4	91
6	Monazite as a monitor of melting, garnet growth and feldspar recrystallization in continental lower crust. <i>Journal of Metamorphic Geology</i> , 2015, 33, 735-762.	3.4	89
7	Neoproterozoic extension in the Greater Dharwar Craton: a reevaluation of the "Betsimisaraka suture" in Madagascar. This article is one of a series of papers published in this Special Issue on the theme of <i>Geochronology</i> in honour of Tom Krogh.. <i>Canadian Journal of Earth Sciences</i> , 2011, 48, 389-417.	1.3	88
8	Petrology and in situ U-Th-Pb Monazite Geochronology of Ultrahigh-Temperature Metamorphism from the Andriamena Mafic Unit, North-Central Madagascar. Significance of a Petrographical P-T Path in a Polymetamorphic Context. <i>Journal of Petrology</i> , 2004, 45, 1923-1957.	2.8	80
9	Role of plagioclase and reaction softening in a metagranite shear zone at mid-crustal conditions (Gotthard Massif, Swiss Central Alps). <i>Journal of Metamorphic Geology</i> , 2010, 28, 849-871.	3.4	75
10	Formation of eclogite, and reaction during exhumation to mid-crustal levels, Snowbird tectonic zone, western Canadian Shield. <i>Journal of Metamorphic Geology</i> , 2007, 25, 953-974.	3.4	70
11	Electron-microprobe age mapping of monazite. <i>American Mineralogist</i> , 2005, 90, 578-585.	1.9	67
12	Micro-drilling ID-TIMS U-Pb dating of single monazites: A new method to unravel complex poly-metamorphic evolutions. Application to the UHT granulites of Andriamena (North-Central) Tj ETQq0 0 0 rgBT /@verlock 10Tf 50 29		
13	Mid-crustal shear zone formation in granitic rocks: Constraints from quantitative textural and crystallographic preferred orientations analyses. <i>Tectonophysics</i> , 2014, 612-613, 63-80.	2.2	60
14	Preservation of Permian allanite within an Alpine eclogite facies shear zone at Mt Mucrone, Italy: Mechanical and chemical behavior of allanite during mylonitization. <i>Lithos</i> , 2011, 125, 40-50.	1.4	52
15	The role of heterogeneous strain in the development and preservation of a polymetamorphic record in high-P granulites, western Canadian Shield. <i>Journal of Metamorphic Geology</i> , 2008, 26, 669-694.	3.4	50
16	Subhorizontal fabric in exhumed continental lower crust and implications for lower crustal flow: Athabasca granulite terrane, western Canadian Shield. <i>Tectonics</i> , 2010, 29, n/a-n/a.	2.8	50
17	The geological roots of South America: 4.1 Ga and 3.7 Ga zircon crystals discovered in N.E. Brazil and N.W. Argentina. <i>Precambrian Research</i> , 2015, 271, 49-55.	2.7	50
18	Finite strain pattern in Andriamena unit (north-central Madagascar): evidence for late Neoproterozoic-Cambrian thrusting during continental convergence. <i>Precambrian Research</i> , 2003, 123, 135-157.	2.7	43

#	ARTICLE	IF	CITATIONS
19	How does shear zone nucleate? An example from the Suretta nappe (Swiss Eastern Alps). <i>Journal of Structural Geology</i> , 2016, 86, 166-180.	2.3	42
20	Petrological evolution of silica-undersaturated sapphirine-bearing granulite in the Paleoproterozoic Salvadorâ€™CuraÃŠÃ; Belt, Bahia, Brazil. <i>Gondwana Research</i> , 2009, 15, 49-70.	6.0	34
21	Metamorphic and geochronological study of the Triassic El Oro metamorphic complex, Ecuador: Implications for high-temperature metamorphism in a forearc zone. <i>Lithos</i> , 2013, 156-159, 41-68.	1.4	32
22	Ultraâ€™high temperature metamorphism recorded in Feâ€™rich olivineâ€™bearing migmatite from the Khondalite Belt, North China Craton. <i>Journal of Metamorphic Geology</i> , 2018, 36, 343-368.	3.4	29
23	Geochronological constraints on the trans-Hudsonian tectono-metamorphic evolution of the pre-Athabasca basement within the Wollaston-Mudjatik Transition Zone, Saskatchewan. <i>Precambrian Research</i> , 2017, 301, 152-178.	2.7	28
24	Tectono-metamorphic evolution of the internal zone of the Pan-African Lufilian orogenic belt (Zambia): Implications for crustal reworking and syn-orogenic uranium mineralizations. <i>Lithos</i> , 2016, 240-243, 167-188.	1.4	27
25	Strain partitioning along the anatectic front in the Variscan Montagne Noire massif (southern) Tj ETQq1 1 0.784314 rgBT / Overlock 10	2.85	26
26	Tectono-metamorphic evolution of the pre-Athabasca basement within the Wollastonâ€™Mudjatik Transition Zone, Saskatchewan. <i>Canadian Journal of Earth Sciences</i> , 2016, 53, 231-259.	1.3	26
27	The Samapleu mafic-ultramafic intrusion and its Ni-Cu-PGE mineralization: an Eburnean (2.09 Ga) feeder dyke to the Yacouba layered complex (Man Archean craton, western Ivory Coast). <i>Bulletin - Societie Geologique De France</i> , 2014, 185, 393-411.	2.2	23
28	Behavior of trace elements in relation to Luâ€™Hf and Smâ€™Nd geochronometers during metamorphic dehydrationâ€™hydration in the HP domain of VÃƒrdalsneset, Western Gneiss Region, Norway. <i>Contributions To Mineralogy and Petrology</i> , 2010, 159, 437-458.	3.1	17
29	Thrusting and sinistral wrenching in a pre-Eocene HP-LT Caribbean accretionary wedge (SamanÃ; Tj ETQq1 1 0.784314 rgBT / Overlock 15	2.2	15
30	On the petrology of brittle precursors of shear zones â€™ An expression of concomitant brittle deformation and fluidâ€™rock interactions in the â€™ductileâ€™ continental crust?. <i>Journal of Metamorphic Geology</i> , 2019, 37, 1129-1149.	3.4	15
31	Temperature, fluid content and rheology of localized ductile shear zones in subsolidus cooling plutons. <i>Journal of Metamorphic Geology</i> , 2020, 38, 881-903.	3.4	14
32	Two contrasted P-T-time paths of coronitic metanorites of the French Massif Central: are reaction textures reliable guides to metamorphic histories?. <i>Journal of Metamorphic Geology</i> , 2005, 23, 97-105.	3.4	12
33	Direct synthesis of pure brannerite UTi2O6. <i>Journal of Nuclear Materials</i> , 2019, 515, 401-406.	2.7	12
34	Exhumation of deep continental crust in a transpressive regime: The example of Variscan eclogites from the Aiguillesâ€™Rouges massif (Western Alps). <i>Journal of Metamorphic Geology</i> , 2022, 40, 1087-1120.	3.4	12
35	Large calcite and bulk-rock volume loss in metacarbonate xenoliths from the QuÃ©rigut massif (French) Tj ETQq1 1 0.784314 rgBT / Overlock 10	3.1	10
36	Thermodynamic Modeling and Thermobarometry of Metasomatized Rocks. <i>Lecture Notes in Earth System Sciences</i> , 2013, , 53-91.	0.6	10

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37	Geochemical fingerprints of brannerite (U <sup>2+</sup> O <sup>6+</sup> ): an integrated study. Mineralogical Magazine, 2020, 84, 313-334.	1.4	8
38	Garnet as a monitor for melt-rock interaction: Textural, mineralogical, and compositional evidence of partial melting and melt-driven metasomatism. Journal of Metamorphic Geology, 2021, 39, 617-648.	3.4	8
39	Contribution of magmatism, partial melting buffering and localized crustal thinning on the late Variscan thermal structure of the Agly massif (French Pyrenees). Journal of Metamorphic Geology, 2020, 38, 799-829.	3.4	7
40	Monazite as a monitor of shear strain in orogenic crust. Journal of Structural Geology, 2022, 161, 104672.	2.3	7
41	Metamorphic geology: progress and perspectives. Geological Society Special Publication, 2019, 478, 1-12.	1.3	6
42	Kinematics, deformation partitioning and late Variscan magmatism in the Agly massif, Eastern Pyrenees, France. Bulletin - Societe Geologique De France, 2020, 191, 15.	2.2	6
43	On the petrology and microstructures of small-scale ductile shear zones in granitoid rocks: An overview. Journal of Structural Geology, 2022, 161, 104667.	2.3	6
44	A multiparametric study on the dissolution of synthetic brannerite. Npj Materials Degradation, 2021, 5, .	5.8	5
45	The Samaleu mafic-ultramafic intrusion (western Ivory Coast): cumulate of a high-Mg basaltic magma with (coeval) ultrahigh-temperature-medium-pressure metamorphism. Geological Society Special Publication, 2021, 502, 251-282.	1.3	4
46	Le pointement de pÃ©ridotite Ã  grenat-spinelle de La Croix-Valmer (Maures centrales): un cumulat d'affinitÃ© ocÃ©anique impliquÃ© dans la subduction Ã©ohercynienne ?. Comptes Rendus De L'AcadÃ©mie Des Sciences Earth & Planetary Sciences SÃ©rie II, Sciences De La Terre Et Des PlanÃ©tes =, 1998, 326, 473-477.	0.2	3
47	Rheological behavior of high temperature garnet-bearing migmatites: The Khondalite Belt example (North China Craton). Journal of Structural Geology, 2020, 131, 103910.	2.3	3
48	Seismic properties across an amphibolite- to greenschist-facies strain gradient (Neves area, eastern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.2	1
49	Reply to J. Berger's comment on the article "Discovery of metamorphic microdiamonds from the parautochthonous units of the Variscan French Massif" by ThiÃ©ry, V. et al., (2015), Gondwana Research 28, 954-960. Gondwana Research, 2016, 38, 372-374.	6.0	0
50	Comment on "Evolution of high-pressure mafic granulites and pelitic gneisses from NE Madagascar: Tectonic implications" Tectonophysics, 662, 219-242 (2015) by Ishwar-Kumar et al.. Tectonophysics, 2017, 705, 116-121.	2.2	0