

# Philippe Yamato

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/3999390/philippe-yamato-publications-by-year.pdf>

**Version:** 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51  
papers

2,109  
citations

24  
h-index

45  
g-index

57  
ext. papers

2,382  
ext. citations

4.4  
avg. IF

4.97  
L-index

#	Paper	IF	Citations
51	Reaction-induced volume change triggers brittle failure at eclogite facies conditions. <i>Earth and Planetary Science Letters</i> , <b>2022</b> , 117520	5.3	0
50	Influence of magma-poor versus magma-rich passive margins on subduction initiation. <i>Gondwana Research</i> , <b>2021</b> ,	5.1	2
49	Extrusion of subducted crust explains the emplacement of far-travelled ophiolites. <i>Nature Communications</i> , <b>2021</b> , 12, 1499	17.4	1
48	Pressure-to-Depth Conversion Models for Metamorphic Rocks: Derivation and Applications. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2021</b> , 22,	3.6	3
47	Reply to Comment by D. Jiang on Pressure-to-Depth Conversion Models for Metamorphic Rocks: Derivation and Applications <i>Geochemistry, Geophysics, Geosystems</i> , <b>2021</b> , 22, e2021GC009907	3.6	
46	Transient weakening during the granulite to eclogite transformation within hydrous shear zones (Holsnøy, Norway). <i>Tectonophysics</i> , <b>2021</b> , 229026	3.1	1
45	Modeling Lithospheric Deformation Using a Compressible Visco-Elasto-Viscoplastic Rheology and the Effective Viscosity Approach. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2021</b> , 22, e2021GC009675	3.6	4
44	The transition from ancient to modern-style tectonics: Insights from lithosphere dynamics modelling in compressional regimes. <i>Gondwana Research</i> , <b>2021</b> , 99, 77-92	5.1	1
43	Toward Robust and Predictive Geodynamic Modeling: The Way Forward in Frictional Plasticity. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL086027	4.9	10
42	Precambrian deformation belts in compressive tectonic regimes: A numerical perspective. <i>Tectonophysics</i> , <b>2020</b> , 777, 228350	3.1	6
41	Influence of the Thickness of the Overriding Plate on Convergence Zone Dynamics. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2020</b> , 21, e2019GC008678	3.6	5
40	Strain localization mechanisms for subduction initiation at passive margins. <i>Global and Planetary Change</i> , <b>2020</b> , 195, 103323	4.2	10
39	Brittle/Ductile Deformation of Eclogites: Insights From Numerical Models. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 3116-3133	3.6	15
38	Metamorphic record of catastrophic pressure drops in subduction zones. <i>Nature Geoscience</i> , <b>2017</b> , 10, 46-50	18.3	35
37	On the meaning of peak temperature profiles in inverted metamorphic sequences. <i>Geophysical Journal International</i> , <b>2017</b> , 210, 130-147	2.6	2
36	Evidence for brittle deformation events at eclogite-facies P-T conditions (example of the Mt. Emilius klippe, Western Alps). <i>Tectonophysics</i> , <b>2017</b> , 706-707, 1-13	3.1	15
35	Fluid pathways and high-P metasomatism in a subducted continental slice (Mt. Emilius klippe, W. Alps). <i>Journal of Metamorphic Geology</i> , <b>2017</b> , 35, 471-492	4.4	25

34	Petrological evidence for stepwise accretion of metamorphic soles during subduction infancy (Semail ophiolite, Oman and UAE). <i>Journal of Metamorphic Geology</i> , <b>2017</b> , 35, 1051-1080	4.4	56
33	Plate interface rheological switches during subduction infancy: Control on slab penetration and metamorphic sole formation. <i>Earth and Planetary Science Letters</i> , <b>2016</b> , 451, 208-220	5.3	88
32	Thermo-mechanical modeling of the obduction process based on the Oman Ophiolite case. <i>Gondwana Research</i> , <b>2016</b> , 32, 1-10	5.1	45
31	Modeling of wind gap formation and development of sedimentary basins during fold growth: application to the Zagros Fold Belt, Iran. <i>Earth Surface Processes and Landforms</i> , <b>2016</b> , 41, 1521-1535	3.7	12
30	A free surface capturing discretization for the staggered grid finite difference scheme. <i>Geophysical Journal International</i> , <b>2016</b> , 204, 1518-1530	2.6	19
29	A dimensional analysis to quantify the thermal budget around lithospheric-scale shear zones. <i>Terra Nova</i> , <b>2015</b> , 27, 163-168	3	10
28	Quantifying magma segregation in dykes. <i>Tectonophysics</i> , <b>2015</b> , 660, 132-147	3.1	18
27	Ultraslow, slow, or fast spreading ridges: Arm wrestling between mantle convection and far-field tectonics. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 429, 205-215	5.3	16
26	Tectonic record, magmatic history and hydrothermal alteration in the Hercynian Guñande leucogranite, Armorican Massif, France. <i>Lithos</i> , <b>2015</b> , 220-223, 1-22	2.9	51
25	Thermal structure of a major crustal shear zone, the basal thrust in the Scandinavian Caledonides. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 385, 162-171	5.3	15
24	Advances and challenges in geotectonic modelling. <i>Bulletin - Societe Geologique De France</i> , <b>2014</b> , 185, 147-168	2.3	3
23	Rheological and geodynamic controls on the mechanisms of subduction and HP/UHP exhumation of crustal rocks during continental collision: Insights from numerical models. <i>Tectonophysics</i> , <b>2014</b> , 631, 212-250	3.1	36
22	Mechanisms of continental subduction and exhumation of HP and UHP rocks. <i>Gondwana Research</i> , <b>2014</b> , 25, 464-493	5.1	56
21	The Minimized Power Geometric model: An analytical mixing model for calculating polyphase rock viscosities consistent with experimental data. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 3897-3924	3.6	23
20	The influence of surface slope on the shape of river basins: Comparison between nature and numerical landscape simulations. <i>Geomorphology</i> , <b>2013</b> , 192, 71-79	4.3	7
19	Major role of shear heating in intracontinental inverted metamorphism: Inference from a thermo-kinematic parametric study. <i>Tectonophysics</i> , <b>2013</b> , 608, 812-831	3.1	16
18	Passive margins getting squeezed in the mantle convection vice. <i>Tectonics</i> , <b>2013</b> , 32, 1559-1570	4.3	24
17	Numerical modelling of magma transport in dykes. <i>Tectonophysics</i> , <b>2012</b> , 526-529, 97-109	3.1	27

16	Eclogite breccias in a subducted ophiolite: A record of intermediate-depth earthquakes?. <i>Geology</i> , <b>2012</b> , 40, 707-710	5	66
15	Effect of fluid circulation on subduction interface tectonic processes: Insights from thermo-mechanical numerical modelling. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 357-358, 238-248	5.3	67
14	New U-Pb zircon and <sup>40</sup> Ar/ <sup>39</sup> Ar muscovite age constraints on the emplacement of the Lizio syn-tectonic granite (Armorican Massif, France). <i>Comptes Rendus - Geoscience</i> , <b>2011</b> , 343, 443-453	1.4	21
13	Subduction interface processes recorded by eclogite-facies shear zones (Monviso, W. Alps). <i>Lithos</i> , <b>2011</b> , 127, 222-238	2.9	109
12	Dynamic constraints on the crustal-scale rheology of the Zagros fold belt, Iran. <i>Geology</i> , <b>2011</b> , 39, 815-818	1.3	58
11	Subducting slabs: Jellyfishes in the Earth's mantle. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2010</b> , 11, n/a-n/a	n/a	21
10	Structural evolution of a three-dimensional, finite-width crustal wedge. <i>Tectonophysics</i> , <b>2010</b> , 484, 181-192	1.2	32
9	Exhumation of oceanic blueschists and eclogites in subduction zones: Timing and mechanisms. <i>Earth-Science Reviews</i> , <b>2009</b> , 92, 53-79	10.2	406
8	Taiwan mountain building: insights from 2-D thermomechanical modelling of a rheologically stratified lithosphere. <i>Geophysical Journal International</i> , <b>2009</b> , 176, 307-326	2.6	42
7	Episodic slab rollback fosters exhumation of HP-UHP rocks. <i>Geophysical Journal International</i> , <b>2009</b> , 179, 1292-1300	2.6	33
6	Influence of surrounding plates on 3D subduction dynamics. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a	1.9	59
5	Continental plate collision, P-T conditions and unstable vs. stable plate dynamics: Insights from thermo-mechanical modelling. <i>Lithos</i> , <b>2008</b> , 103, 178-204	2.9	98
4	HP-UHP exhumation during slow continental subduction: Self-consistent thermodynamically and thermomechanically coupled model with application to the Western Alps. <i>Earth and Planetary Science Letters</i> , <b>2008</b> , 271, 63-74	5.3	135
3	Burial and exhumation in a subduction wedge: Mutual constraints from thermomechanical modeling and natural P-T-t data (Schistes Lustrés, western Alps). <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		132
2	New, high-precision P-T estimates for Oman blueschists: implications for obduction, nappe stacking and exhumation processes. <i>Journal of Metamorphic Geology</i> , <b>2007</b> , 25, 657-682	4.4	49
1	Transient, synobduction exhumation of Zagros blueschists inferred from P-T, deformation, time, and kinematic constraints: Implications for Neotethyan wedge dynamics. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111, n/a-n/a		123