

Philippe Yamato

List of Publications by Year in descending order

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52
papers

2,675
citations

236612

25
h-index

182168

51
g-index

57
all docs

57
docs citations

57
times ranked

2189
citing authors

#	ARTICLE	IF	CITATIONS
1	Exhumation of oceanic blueschists and eclogites in subduction zones: Timing and mechanisms. <i>Earth-Science Reviews</i> , 2009, 92, 53-79.	4.0	498
2	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> , 2008, 271, 63-74.	1.8	167
3	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> , 2006, 111, n/a-n/a.	3.3	147
4	Burial and exhumation in a subduction wedge: Mutual constraints from thermomechanical modeling and natural P-T data (Schistes Lustrés, western Alps). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	145
5	Subduction interface processes recorded by eclogite-facies shear zones (Monviso, W. Alps). <i>Lithos</i> , 2011, 127, 222-238.	0.6	134
6	Plate interface rheological switches during subduction infancy: Control on slab penetration and metamorphic sole formation. <i>Earth and Planetary Science Letters</i> , 2016, 451, 208-220.	1.8	130
7	Continental plate collision, P-T conditions and unstable vs. stable plate dynamics: Insights from thermo-mechanical modelling. <i>Lithos</i> , 2008, 103, 178-204.	0.6	105
8	Effect of fluid circulation on subduction interface tectonic processes: Insights from thermo-mechanical numerical modelling. <i>Earth and Planetary Science Letters</i> , 2012, 357-358, 238-248.	1.8	87
9	Eclogite breccias in a subducted ophiolite: A record of intermediate-depth earthquakes?. <i>Geology</i> , 2012, 40, 707-710.	2.0	83
10	Petrological evidence for stepwise accretion of metamorphic soles during subduction infancy (Semail) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.6	81
11	Mechanisms of continental subduction and exhumation of HP and UHP rocks. <i>Gondwana Research</i> , 2014, 25, 464-493.	3.0	69
12	Influence of surrounding plates on 3D subduction dynamics. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	67
13	Dynamic constraints on the crustal-scale rheology of the Zagros fold belt, Iran. <i>Geology</i> , 2011, 39, 815-818.	2.0	66
14	Tectonic record, magmatic history and hydrothermal alteration in the Hercynian GuÃ©rande leucogranite, Armorican Massif, France. <i>Lithos</i> , 2015, 220-223, 1-22.	0.6	61
15	Thermo-mechanical modeling of the obduction process based on the Oman Ophiolite case. <i>Gondwana Research</i> , 2016, 32, 1-10.	3.0	61
16	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> , 2014, 631, 212-250.	0.9	54
17	New, high-precision <i>P-T</i> estimates for Oman blueschists: implications for obduction, nappe stacking and exhumation processes. <i>Journal of Metamorphic Geology</i> , 2007, 25, 657-682.	1.6	53
18	Metamorphic record of catastrophic pressure drops in subduction zones. <i>Nature Geoscience</i> , 2017, 10, 46-50.	5.4	46

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19	Taiwan mountain building: insights from 2-D thermomechanical modelling of a rheologically stratified lithosphere. <i>Geophysical Journal International</i> , 2009, 176, 307-326.	1.0	44
20	Structural evolution of a three-dimensional, finite-width crustal wedge. <i>Tectonophysics</i> , 2010, 484, 181-192.	0.9	43
21	Episodic slab rollback fosters exhumation of HP/HT UHP rocks. <i>Geophysical Journal International</i> , 2009, 179, 1292-1300.	1.0	39
22	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> , 2014, 119, 3897-3924.	1.4	33
23	Fluid pathways and high-pressure/temperature metasomatism in a subducted continental slice (Mt. Emilius klippe, W. Tj ETQq1 1 0.784314 rgBT /Over	1.6	33
24	Numerical modelling of magma transport in dykes. <i>Tectonophysics</i> , 2012, 526-529, 97-109.	0.9	32
25	A free surface capturing discretization for the staggered grid finite difference scheme. <i>Geophysical Journal International</i> , 2016, 204, 1518-1530.	1.0	27
26	Passive margins getting squeezed in the mantle convection vice. <i>Tectonics</i> , 2013, 32, 1559-1570.	1.3	25
27	Subducting slabs: Jellyfishes in the Earth's mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	24
28	New U-Pb zircon and ⁴⁰ Ar/ ³⁹ Ar muscovite age constraints on the emplacement of the Lizio syn-tectonic granite (Armorican Massif, France). <i>Comptes Rendus - Geoscience</i> , 2011, 343, 443-453.	0.4	24
29	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> , 2016, 41, 1521-1535.	1.2	23
30	Brittle/Ductile Deformation of Eclogites: Insights From Numerical Models. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3116-3133.	1.0	22
31	Strain localization mechanisms for subduction initiation at passive margins. <i>Global and Planetary Change</i> , 2020, 195, 103323.	1.6	22
32	Quantifying magma segregation in dykes. <i>Tectonophysics</i> , 2015, 660, 132-147.	0.9	21
33	Ultraslow, slow, or fast spreading ridges: Arm wrestling between mantle convection and far-field tectonics. <i>Earth and Planetary Science Letters</i> , 2015, 429, 205-215.	1.8	20
34	Thermal structure of a major crustal shear zone, the basal thrust in the Scandinavian Caledonides. <i>Earth and Planetary Science Letters</i> , 2014, 385, 162-171.	1.8	19
35	Evidence for brittle deformation events at eclogite-facies P-T conditions (example of the Mt. Emilius) Tj ETQq1 1 0.784314 rgBT /Over	0.9	19
36	Toward Robust and Predictive Geodynamic Modeling: The Way Forward in Frictional Plasticity. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086027.	1.5	19

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37	Major role of shear heating in intracontinental inverted metamorphism: Inference from a thermo-kinematic parametric study. <i>Tectonophysics</i> , 2013, 608, 812-831.	0.9	16
38	A dimensional analysis to quantify the thermal budget around lithospheric-scale shear zones. <i>Terra Nova</i> , 2015, 27, 163-168.	0.9	15
39	Influence of the Thickness of the Overriding Plate on Convergence Zone Dynamics. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008678.	1.0	13
40	Modeling Lithospheric Deformation Using a Compressible Visco-Elasto-Viscoplastic Rheology and the Effective Viscosity Approach. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009675.	1.0	12
41	Pressure-Depth Conversion Models for Metamorphic Rocks: Derivation and Applications. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, .	1.0	11
42	Precambrian deformation belts in compressive tectonic regimes: A numerical perspective. <i>Tectonophysics</i> , 2020, 777, 228350.	0.9	10
43	Transient weakening during the granulite to eclogite transformation within hydrous shear zones (Holsn�y, Norway). <i>Tectonophysics</i> , 2021, , 229026.	0.9	10
44	The influence of surface slope on the shape of river basins: Comparison between nature and numerical landscape simulations. <i>Geomorphology</i> , 2013, 192, 71-79.	1.1	9
45	Extrusion of subducted crust explains the emplacement of far-travelled ophiolites. <i>Nature Communications</i> , 2021, 12, 1499.	5.8	9
46	Reaction-induced volume change triggers brittle failure at eclogite facies conditions. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117520.	1.8	7
47	Influence of magma-poor versus magma-rich passive margins on subduction initiation. <i>Gondwana Research</i> , 2022, 103, 172-186.	3.0	5
48	Kinematic Boundary Conditions Favouring Subduction Initiation at Passive Margins Over Subduction at Mid-oceanic Ridges. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	5
49	Advances and challenges in geotectonic modelling. <i>Bulletin - Societe Geologique De France</i> , 2014, 185, 147-168.	0.9	3
50	On the meaning of peak temperature profiles in inverted metamorphic sequences. <i>Geophysical Journal International</i> , 2017, 210, 130-147.	1.0	3
51	The transition from ancient to modern-style tectonics: Insights from lithosphere dynamics modelling in compressional regimes. <i>Gondwana Research</i> , 2021, 99, 77-92.	3.0	2
52	Reply to Comment by D. Jiang on "Pressure-Depth Conversion Models for Metamorphic Rocks: Derivation and Applications". <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009907.	1.0	0