

# Stéphane Guillot

## List of Publications by Year in descending order

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101  
papers

6,883  
citations

57758

44  
h-index

60623

81  
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104  
all docs

104  
docs citations

104  
times ranked

4261  
citing authors

#	ARTICLE	IF	CITATIONS
1	Receiver function mapping of the mantle transition zone beneath the Western Alps: New constraints on slab subduction and mantle upwelling. <i>Earth and Planetary Science Letters</i> , 2022, 577, 117267.	4.4	6
2	Change in Subduction Dip Angle of the Indian Continental Lithosphere Inferred From the Western Himalayan Eclogites. <i>Frontiers in Earth Science</i> , 2022, 9, .	1.8	7
3	HT overprint of HP granulites in the Oisans-Pelvoux massif: Implications for the dynamics of the Variscan collision in the external western Alps. <i>Lithos</i> , 2022, 416-417, 106650.	1.4	5
4	Observation of rapid long-range seismic bursts in the Japan Trench subduction leading to the nucleation of the Tohoku earthquake. <i>Earth and Planetary Science Letters</i> , 2022, 594, 117696.	4.4	7
5	Carboniferous high-P metamorphism and deformation in the Belledonne Massif (Western Alps). <i>Journal of Metamorphic Geology</i> , 2021, 39, 1009-1044.	3.4	12
6	Serpentinization of New Caledonia peridotites: from depth to (sub-)surface. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	3.1	17
7	Evidence for a serpentinized plate interface favouring continental subduction. <i>Nature Communications</i> , 2020, 11, 2171.	12.8	32
8	Tectono-metamorphic evolution of an evaporitic décollement as recorded by mineral and fluid geochemistry: The Nappe des Gypses (Western Alps) case study. <i>Lithos</i> , 2020, 358-359, 105419.	1.4	5
9	Carbonated Inheritance in the Eastern Tibetan Lithospheric Mantle: Petrological Evidences and Geodynamic Implications. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008495.	2.5	9
10	3-D Pn tomography reveals continental subduction at the boundaries of the Adriatic microplate in the absence of a precursor oceanic slab. <i>Earth and Planetary Science Letters</i> , 2019, 510, 131-141.	4.4	21
11	Plate tectonics influence on geogenic arsenic cycling: From primary sources to global groundwater enrichment. <i>Science of the Total Environment</i> , 2019, 683, 793-807.	8.0	60
12	Transition from subduction to collision recorded in the Pan-African arc complexes (Mali to Ghana). <i>Precambrian Research</i> , 2019, 320, 261-280.	2.7	22
13	Permian charnockites in the Pobeda area: Implications for Tarim mantle plume activity and HT metamorphism in the South Tien Shan range. <i>Lithos</i> , 2018, 304-307, 135-154.	1.4	14
14	Active and fossil mantle flows in the western Alpine region unravelled by seismic anisotropy analysis and high-resolution P wave tomography. <i>Tectonophysics</i> , 2018, 731-732, 35-47.	2.2	32
15	Mantle wedge serpentinites: A transient reservoir of halogens, boron, and nitrogen for the deeper mantle. <i>Geology</i> , 2018, 46, 883-886.	4.4	24
16	Tectonometamorphic evolution of the Atbashi high-P units (Kyrgyz CAOB, Tien Shan): Implications for the closure of the Turkestan Ocean and continental subduction/exhumation of the South Kazakh continental margin. <i>Journal of Metamorphic Geology</i> , 2018, 36, 959-985.	3.4	20
17	Mantle wedge exhumation beneath the Dora-Maira (U)HP dome unravelled by local earthquake tomography (Western Alps). <i>Lithos</i> , 2018, 296-299, 623-636.	1.4	36
18	New structural data on Late Paleozoic tectonics in the Kyrgyz Tien Shan (Central Asian Orogenic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	6.0	24

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19	Microstructural vs compositional preservation and pseudomorphic replacement of muscovite in deformed metapelites from the Longmen Shan (Sichuan, China). <i>Lithos</i> , 2017, 282-283, 262-280.	1.4	39
20	Total exhumation across the Beichuan fault in the Longmen Shan (eastern Tibetan plateau, China): Constraints from petrology and thermobarometry. <i>Journal of Asian Earth Sciences</i> , 2017, 140, 108-121.	2.3	28
21	Earthquakes in the western Alpine mantle wedge. <i>Gondwana Research</i> , 2017, 44, 89-95.	6.0	25
22	Protolith of the Stak eclogite in the northwestern Himalaya. <i>Italian Journal of Geosciences</i> , 2017, 136, 64-72.	0.8	8
23	Continuity of the Alpine slab unraveled by high-resolution <i>P</i> wave tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 8720-8737.	3.4	95
24	Eocene to Oligocene retrogression and recrystallization of the Stak eclogite in northwest Himalaya. <i>Lithos</i> , 2016, 240-243, 155-166.	1.4	21
25	Late Paleozoic evolution of the South Tien Shan: Insights from <i>P</i> estimates and allanite geochronology on retrogressed eclogites (Chatkal range, Kyrgyzstan). <i>Journal of Geodynamics</i> , 2016, 96, 62-80.	1.6	58
26	Constraints on the collision and the pre-collision tectonic configuration between India and Asia from detrital geochronology, thermochronology, and geochemistry studies in the lower Indus basin, Pakistan. <i>Earth and Planetary Science Letters</i> , 2015, 432, 363-373.	4.4	68
27	Tectonic significance of serpentinites. <i>Tectonophysics</i> , 2015, 646, 1-19.	2.2	174
28	Quantifying the Eocene to Pleistocene topographic evolution of the southwestern Alps, France and Italy. <i>Earth and Planetary Science Letters</i> , 2015, 412, 220-234.	4.4	34
29	Deformation mechanisms of antigorite serpentinite at subduction zone conditions determined from experimentally and naturally deformed rocks. <i>Earth and Planetary Science Letters</i> , 2015, 411, 229-240.	4.4	39
30	Origin of arsenic in Late Pleistocene to Holocene sediments in the Nawalparasi district (Terai, Nepal). <i>Environmental Earth Sciences</i> , 2015, 74, 2571-2593.	2.7	24
31	First seismic evidence for continental subduction beneath the Western Alps. <i>Geology</i> , 2015, 43, 815-818.	4.4	103
32	Dissolution-precipitation processes governing the carbonation and silicification of the serpentinite sole of the New Caledonia ophiolite. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1.	3.1	38
33	The coupling of Indian subduction and Asian continental tectonics. <i>Gondwana Research</i> , 2014, 26, 608-626.	6.0	96
34	<i>P</i> estimation of deformation in low-grade quartzfeldspar-bearing rocks using thermodynamic modelling and <sup>40</sup> Ar/ <sup>39</sup> Ar dating techniques: example of the Plan-deâPhasy shear zone unit (Briançonnais Zone, Western Alps). <i>Terra Nova</i> , 2014, 26, 130-138.	2.1	43
35	Fore arc tectonothermal evolution of the El Oro metamorphic province (Ecuador) during the Mesozoic. <i>Tectonics</i> , 2014, 33, 1989-2012.	2.8	18
36	Importance of continental subductions for the growth of the Tibetan plateau. <i>Bulletin - Societie Geologique De France</i> , 2013, 184, 199-223.	2.2	45

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37	Geochemistry of subduction zone serpentinites: A review. <i>Lithos</i> , 2013, 178, 96-127.	1.4	514
38	High-pressure serpentinites, a trap-and-release system controlled by metamorphic conditions: Example from the Piedmont zone of the western Alps. <i>Chemical Geology</i> , 2013, 343, 38-54.	3.3	83
39	Amount of Asian lithospheric mantle subducted during the India/Asia collision. <i>Gondwana Research</i> , 2013, 24, 936-945.	6.0	77
40	Short-lived, fast erosional exhumation of the internal western Alps during the late early Oligocene: Constraints from geothermochronology of pro- and retro-side foreland basin sediments. <i>Lithosphere</i> , 2013, 5, 211-225.	1.4	35
41	Pressure-temperature estimates of the lizardite/antigorite transition in high pressure serpentinites. <i>Lithos</i> , 2013, 178, 197-210.	1.4	238
42	Syn-tectonic, meteoric water-derived carbonation of the New Caledonia peridotite nappe. <i>Geology</i> , 2013, 41, 1063-1066.	4.4	41
43	Passive obduction and gravity-driven emplacement of large ophiolitic sheets: The New Caledonia ophiolite (SW Pacific) as a case study?. <i>Bulletin - Societe Geologique De France</i> , 2013, 184, 545-556.	2.2	37
44	Deciphering high-pressure metamorphism in collisional context using microprobe mapping methods: Application to the Stak eclogitic massif (northwest Himalaya). <i>Geology</i> , 2013, 41, 111-114.	4.4	89
45	Tracing the Oligocene-Miocene Evolution of the Western Alps Drainage Divide with Pebble Petrology, Geochemistry, and Raman Spectroscopy of Foreland Basin Deposits. <i>Journal of Geology</i> , 2012, 120, 603-624.	1.4	14
46	Diachronous evolution of the alpine continental subduction wedge: Evidence from P-T estimates in the Briançonnais Zone houillère (France - Western Alps). <i>Journal of Geodynamics</i> , 2012, 56-57, 39-54.	1.6	85
47	Tectono-metamorphic evolution of the Briançonnais zone (Modane-Aussois and Southern Vanoise) $T_j$ ETQq1 1 0.784314 $rg_{BT} / Over$	1.6	18
48	Behavior of fluid-mobile elements in serpentines from abyssal to subduction environments: Examples from Cuba and Dominican Republic. <i>Chemical Geology</i> , 2012, 312-313, 93-117.	3.3	94
49	Dating the Tethyan Ocean in the Western Alps with radiolarite pebbles from synorogenic Oligocene molasse basins (southeast France). <i>Swiss Journal of Geosciences</i> , 2012, 105, 39-48.	1.2	11
50	Serpentinites act as sponges for fluid-mobile elements in abyssal and subduction zone environments. <i>Terra Nova</i> , 2011, 23, 171-178.	2.1	125
51	Provenance of Cenozoic sedimentary rocks from the Sulaiman fold and thrust belt, Pakistan: implications for the palaeogeography of the Indus drainage system. <i>Journal of the Geological Society</i> , 2011, 168, 499-516.	2.1	33
52	The effect of chrysotile nanotubes on the serpentine-fluid Li-isotopic fractionation. <i>Contributions To Mineralogy and Petrology</i> , 2010, 159, 781-790.	3.1	41
53	Corundum-bearing garnet peridotite from northern Dominican Republic: A metamorphic product of an arc cumulate in the Caribbean subduction zone. <i>Lithos</i> , 2010, 114, 437-450.	1.4	42
54	Multiple melting stages and refertilization as indicators for ridge to subduction formation: The New Caledonia ophiolite. <i>Lithos</i> , 2010, 115, 223-236.	1.4	118

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55	Reply to Comment on "Corundum-bearing garnet peridotites from northern Dominican Republic: A metamorphic product of an arc cumulate in the Caribbean subduction zone" by Richard N. Abbott and Grenville Draper. <i>Lithos</i> , 2010, 117, 327-330.	1.4	10
56	Indian continental subduction and slab break-off during Tertiary collision. <i>Terra Nova</i> , 2010, 22, no-no.	2.1	45
57	Crustal mass budget and recycling during the India/Asia collision. <i>Tectonophysics</i> , 2010, 492, 99-107.	2.2	32
58	In situ characterization of serpentinites from forearc mantle wedges: Timing of serpentinization and behavior of fluid-mobile elements in subduction zones. <i>Chemical Geology</i> , 2010, 269, 262-277.	3.3	152
59	Multiple episodes of continental subduction during India/Asia convergence: Insight from seismic tomography and tectonic reconstruction. <i>Tectonophysics</i> , 2010, 483, 125-134.	2.2	141
60	Late tectonic and metamorphic evolution of the Piedmont accretionary wedge (Queyras Schistes) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Society of America, 2009, 121, 502-518.	3.3	36
61	Eocene Tibetan plateau remnants preserved in the northwest Himalaya. <i>Nature Geoscience</i> , 2009, 2, 364-368.	12.9	98
62	Paleozoic evolution of the External Crystalline Massifs of the Western Alps. <i>Comptes Rendus - Geoscience</i> , 2009, 341, 253-265.	1.2	73
63	Exhumation Processes in Oceanic and Continental Subduction Contexts: A Review. <i>Frontiers in Earth Sciences</i> , 2009, , 175-205.	0.1	170
64	New Uâ€Th/Pb constraints on timing of shearing and longâ€term slipâ€rate on the Karakorum fault. <i>Tectonics</i> , 2008, 27, .	2.8	98
65	SHRIMP zircon ages of eclogites in the Stak massif, northern Pakistan. <i>Himalayan Journal of Sciences</i> , 2008, 5, 119-120.	0.3	7
66	Occurrences of sulphide minerals in the Stak and Tso Morari eclogites: Implications for the behaviour of sulphur and chalcophile elements in subduction zones. <i>Himalayan Journal of Sciences</i> , 2008, 5, 118.	0.3	1
67	Bengal arsenic, an archive of Himalaya orogeny and paleohydrology. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2007, 42, 1785-1794.	1.7	70
68	Modeling the evolution of continental subduction processes in the Pamirâ€Hindu Kush region. <i>Earth and Planetary Science Letters</i> , 2007, 259, 212-225.	4.4	191
69	Initial geometry of western Himalaya and ultrahigh-pressure metamorphic evolution. <i>Journal of Asian Earth Sciences</i> , 2007, 30, 557-564.	2.3	39
70	Twenty million years of continuous deformation along the Karakorum fault, western Tibet: A thermochronological analysis. <i>Tectonics</i> , 2007, 26, .	2.8	83
71	Geochemical character of serpentinites associated with highâ€to ultrahighâ€pressure metamorphic rocks in the Alps, Cuba, and the Himalayas: Recycling of elements in subduction zones. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	2.5	179
72	Asthenospheric upwelling, oceanic slab retreat, and exhumation of UHP mantle rocks: Insights from Greater Antilles. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	87

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73	Serpentinites in an Alpine convergent setting: Effects of metamorphic grade and deformation on microstructures. <i>European Journal of Mineralogy</i> , 2006, 18, 21-33.	1.3	60
74	Relicts of an intra-oceanic arc in the Sapi-Shergol mélange zone (Ladakh, NW Himalaya, India): implications for the closure of the Neo-Tethys Ocean. <i>Journal of Asian Earth Sciences</i> , 2006, 26, 695-707.	2.3	62
75	Evidence for pre-Cretaceous history and partial Neogene (19–9Ma) reequilibration in the Karakorum (NW Himalayan Syntaxis) from $^{40}\text{Ar}/^{39}\text{Ar}$ amphibole dating. <i>Journal of Asian Earth Sciences</i> , 2006, 27, 371-391.	2.3	17
76	Himalayan ultrahigh pressure rocks and warped Indian subduction plane. <i>Himalayan Journal of Sciences</i> , 2006, 2, 148-149.	0.3	5
77	Occurrence of arsenic (V) in forearc mantle serpentinites based on X-ray absorption spectroscopy study. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5585-5596.	3.9	97
78	Exhumation of the ultrahigh-pressure Tso Moriri unit in eastern Ladakh (NW Himalaya): A case study. <i>Tectonics</i> , 2004, 23, n/a-n/a.	2.8	121
79	The South Ladakh ophiolites (NW Himalaya, India): an intra-oceanic tholeiitic arc origin with implication for the closure of the Neo-Tethys. <i>Chemical Geology</i> , 2004, 203, 273-303.	3.3	139
80	Reply to Comment on "Large-scale geometry, offset and kinematic evolution of the Karakorum fault, Tibet". <i>Earth and Planetary Science Letters</i> , 2004, 229, 159-163.	4.4	17
81	Source and tectono-metamorphic evolution of mafic and pelitic metasedimentary rocks from the central Quetico metasedimentary belt, Archean Superior Province of Canada. <i>Precambrian Research</i> , 2004, 132, 155-177.	2.7	22
82	Large-scale geometry, offset and kinematic evolution of the Karakorum fault, Tibet. <i>Earth and Planetary Science Letters</i> , 2004, 219, 255-269.	4.4	181
83	Reconstructing the total shortening history of the NW Himalaya. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	227
84	Volcanic fronts form as a consequence of serpentinite dehydration in the forearc mantle wedge. <i>Geology</i> , 2003, 31, 525.	4.4	212
85	Late Paleozoic polyphased tectonics in the SW Belledonne massif (external crystalline massifs, French) <i>Tectonophysics</i> , 2001, 333, 1-14.	2.2	29
86	Late Paleozoic polyphased tectonics in the SW Belledonne massif (external crystalline massifs, French) <i>Tectonophysics</i> , 2001, 333, 1-14.	2.2	10
87	Evidence of hydration of the mantle wedge and its role in the exhumation of eclogites. <i>Earth and Planetary Science Letters</i> , 2001, 193, 115-127.	4.4	190
88	Thrusting and sinistral wrenching in a pre-Eocene HP-LT Caribbean accretionary wedge (Samaná) <i>Tectonophysics</i> , 2001, 333, 1-14.	2.2	27
89	Diversité du métamorphisme éclogitique dans le massif ophiolitique du Monviso (Alpes occidentales) <i>Tectonophysics</i> , 2001, 333, 1-14.	2.2	45
90	Extension syn-convergence, poinçonnement vertical et unités métamorphiques contrastées en bordure ouest du Grand Paradis (Alpes Franco-Italiennes). <i>Geodinamica Acta</i> , 2000, 13, 133-148.	2.2	26

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91	Dating the Indian continental subduction and collisional thickening in the northwest Himalaya: Multichronology of the Tso Moriri eclogites. <i>Geology</i> , 2000, 28, 487.	4.4	309
92	Extension syn-convergence, poinçonnement vertical et unités métamorphiques contrastées en bordure ouest du Grand Paradis (Alpes Franco-Italiennes) Syn-convergence extension, vertical pinching and contrasted metamorphic units on the western edge of the Gran Paradiso massif (French-Italian Alps).. <i>Geodinamica Acta</i> , 2000, 13, 133-148.	2.2	38
93	Mantle wedge serpentinization and exhumation of eclogites: Insights from eastern Ladakh, northwest Himalaya. <i>Geology</i> , 2000, 28, 199.	4.4	148
94	Nappe stacking and first evidence of Late Variscan extension in the Belledonne Massif (External) <a href="#">Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6</a>	2.2	19
95	Nappe stacking and first evidence of Late Variscan extension in the Belledonne Massif (External) <a href="#">Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 6</a>	2.2	11
96	An overview of the metamorphic evolution in Central Nepal. <i>Journal of Asian Earth Sciences</i> , 1999, 17, 713-725.	2.3	60
97	HP metamorphic belt along the Indus suture zone of NW Himalaya: new discoveries and significance. <i>Comptes Rendus De L'Académie Des Sciences Earth &amp; Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> , 1997, 325, 773-778.	0.2	8
98	Glaucophane-bearing eclogites in the Tso Moriri dome (eastern Ladakh, NW Himalaya). <i>European Journal of Mineralogy</i> , 1997, 9, 1073-1084.	1.3	119
99	Contact metamorphism and depth of emplacement of the Manaslu granite (central Nepal). Implications for Himalayan orogenesis. <i>Tectonophysics</i> , 1995, 241, 99-119.	2.2	61
100	New constraints on the age of the Manaslu leucogranite: Evidence for episodic tectonic denudation in the central Himalayas. <i>Geology</i> , 1994, 22, 559.	4.4	104
101	Fe-Ni-rich Silicate Aggregates Formed after Sulfides in High-pressure Serpentinites. <i>Journal of Petrology</i> , 0, , .	2.8	1