## Alfons Berger

List of Publications by Year in descending order

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			117571	1	133188
	106	3,936	34		59
	papers	citations	h-index		g-index
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	137	137	137		2993
	all docs	docs citations	times ranked		citing authors

#	Article	IF	CITATIONS
1	Apatite low-temperature chronometry and microstructures across a hydrothermally active fault zone. Chemical Geology, 2022, 588, 120633.	1.4	4
2	Tracing wedge-internal deformation by means of strontium isotope systematics of vein carbonates. Geological Magazine, 2022, 159, 2191-2205.	0.9	3
3	Experimental evidence that viscous shear zones generate periodic pore sheets. Solid Earth, 2021, 12, 405-420.	1.2	5
4	Structural and chemical resetting processes in white mica and their effect on K-Ar data during low temperature metamorphism. Tectonophysics, 2021, 800, 228708.	0.9	15
5	U â^' Pb geochronology of epidote by laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) as a tool for dating hydrothermal-vein formation. Geochronology, 2021, 3, 123-147.	1.0	8
6	Structural and thermal evolution of the eastern Aar Massif: insights from structural field work and Raman thermometry. Swiss Journal of Geosciences, 2021, 114, 9.	0.5	15
7	Episodes of fissure formation in the Alps: connecting quartz fluid inclusion, fissure monazite age, and fissure orientation data. Swiss Journal of Geosciences, 2021, 114, 14.	0.5	7
8	The evolution of slate microfabrics during progressive accretion of foreland basin sediments. Journal of Structural Geology, 2021, 150, 104404.	1.0	8
9	Orogenâ€Parallel Migration of Exhumation in the Eastern Aar Massif Revealed by Lowâ€₹ Thermochronometry. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020799.	1.4	6
10	Microstructural analyses of a giant quartz reef in south China reveal episodic brittle-ductile fluid transfer. Journal of Structural Geology, 2020, 130, 103911.	1.0	8
11	Late stages of continent-continent collision: Timing, kinematic evolution, and exhumation of the Northern rim (Aar Massif) of the Alps. Earth-Science Reviews, 2020, 200, 102959.	4.0	35
12	Dynamic Recrystallization Can Produce Porosity in Shear Zones. Geophysical Research Letters, 2020, 47, e2019GL086172.	1.5	12
13	Dating tectonic activity in the Lepontine Dome and Rhone-Simplon Fault regions through hydrothermal monazite-(Ce). Solid Earth, 2020, 11, 199-222.	1.2	9
14	The relation between peak metamorphic temperatures and subsequent cooling during continent–continent collision (western Central Alps, Switzerland). Swiss Journal of Geosciences, 2020, 113, .	0.5	10
15	The effects of a tectonic stress regime change on crustal-scale fluid flow at the Heyuan geothermal fault system, South China. Tectonophysics, 2020, 781, 228399.	0.9	11
16	Cenozoic deformation in the Tauern Window (Eastern Alps) constrained by in situ Th-Pb dating of fissure monazite. Solid Earth, 2020, 11, 437-467.	1.2	5
17	Cockade structures as a paleo-earthquake proxy in upper crustal hydrothermal systems. Scientific Reports, 2019, 9, 9209.	1.6	11
18	Constraining deformation phases in the Aar Massif and the Gotthard Nappe (Switzerland) using Th-Pb crystallization ages of fissure monazite-(Ce). Lithos, 2019, 342-343, 223-238.	0.6	18

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19	The mineral factory: how to build a giant quartz reef. ASEG Extended Abstracts, 2019, 2019, 1-4.	0.1	1
20	Large vertical displacements of a crystalline massif recorded by Raman thermometry. Geology, 2018, 46, 879-882.	2.0	27
21	Structural characteristics, bulk porosity and evolution of an exhumed long-lived hydrothermal system. Tectonophysics, 2018, 747-748, 239-258.	0.9	17
22	Multiscale porosity changes along the pro- and retrograde deformation path: an example from Alpine slates. Solid Earth, 2018, 9, 1141-1156.	1.2	6
23	Constraining longâ€ŧerm fault activity in the brittle domain through in situ dating of hydrothermal monazite. Terra Nova, 2018, 30, 440-446.	0.9	12
24	Structural-permeability favorability in crystalline rocks and implications for groundwater flow paths: a case study from the Aar Massif (central Switzerland). Hydrogeology Journal, 2018, 26, 2725-2738.	0.9	5
25	The potential of detrital garnet as a provenance proxy in the Central Swiss Alps. Sedimentary Geology, 2017, 351, 11-20.	1.0	11
26	Thâ€Pb ion probe dating of zoned hydrothermal monazite and its implications for repeated shear zone activity: An example from the Central Alps, Switzerland. Tectonics, 2017, 36, 671-689.	1.3	34
27	Microstructures, mineral chemistry and geochronology of white micas along a retrograde evolution: An example from the Aar massif (Central Alps, Switzerland). Tectonophysics, 2017, 721, 179-195.	0.9	33
28	Large-Scale Crustal-Block-Extrusion During Late Alpine Collision. Scientific Reports, 2017, 7, 413.	1.6	46
29	How is strain localized in a meta-granitoid, mid-crustal basement section? Spatial distribution of deformation in the central Aar massif (Switzerland). Journal of Structural Geology, 2017, 94, 47-67.	1.0	78
30	Kinematics and significance of a poly-deformed crustal-scale shear zone in central to south-eastern Madagascar: the Itremo–Ikalamavony thrust. International Journal of Earth Sciences, 2017, 106, 2091-2108.	0.9	4
31	Testing High-Voltage Electrical Discharges in Disintegrating Claystone for Isotopic and Mineralogical Studies: An Example Using Opalinus Claystone. Clays and Clay Minerals, 2017, 65, 342-354.	0.6	5
32	Methods and uncertainty estimations of 3-D structural modelling in crystalline rocks: a case study. Solid Earth, 2017, 8, 987-1002.	1.2	33
33	Strain localization in ductile rocks: A comparison of natural and simulated pinch-and-swell structures. Tectonophysics, 2016, 680, 140-154.	0.9	4
34	The accretion of foreland basin sediments during early stages of continental collision in the European Alps and similarities to accretionary wedge tectonics. Tectonics, 2016, 35, 2216-2238.	1.3	23
35	Deformation at the frictional-viscous transition: Evidence for cycles of fluid-assisted embrittlement and ductile deformation in the granitoid crust. Tectonophysics, 2016, 693, 66-84.	0.9	71
36	Dolomite microstructures between 390° and 700°C: Indications for deformation mechanisms and grain size evolution. Journal of Structural Geology, 2016, 89, 144-152.	1.0	8

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37	Inherited structural controls on fault geometry, architecture and hydrothermal activity: an example from Grimsel Pass, Switzerland. Swiss Journal of Geosciences, 2016, 109, 345-364.	0.5	37
38	Evaluation of Meso-NH and WRF/CHEM simulated gas and aerosol chemistry over Europe based on hourly observations. Atmospheric Research, 2016, 176-177, 43-63.	1.8	10
39	Formation and preservation of biotite-rich microdomains in high-temperature rocks from the Antananarivo Block, Madagascar. International Journal of Earth Sciences, 2016, 105, 1471-1483.	0.9	9
40	Relating orogen width to shortening, erosion, and exhumation during Alpine collision. Tectonics, 2015, 34, 1306-1328.	1.3	34
41	Aerosol processing and CCN formation of an intense Saharan dust plume during the EUCAARI 2008 campaign. Atmospheric Chemistry and Physics, 2015, 15, 3497-3516.	1.9	37
42	Linking megathrust earthquakes to brittle deformation in a fossil accretionary complex. Nature Communications, 2015, 6, 7504.	5.8	32
43	Ce(III) and Ce(IV) (re)distribution and fractionation in a laterite profile from Madagascar: Insights from in situ XANES spectroscopy at the Ce LIII-edge. Geochimica Et Cosmochimica Acta, 2015, 153, 134-148.	1.6	67
44	Age of cleft monazites in the eastern Tauern Window: constraints on crystallization conditions of hydrothermal monazite. Swiss Journal of Geosciences, 2015, 108, 55-74.	0.5	17
45	Rare earth element mineralogy and geochemistry in a laterite profile from Madagascar. Applied Geochemistry, 2014, 41, 218-228.	1.4	125
46	The effect of deformation on the TitaniQ geothermobarometer: an experimental study. Contributions To Mineralogy and Petrology, 2014, 167, 1.	1.2	17
47	The fate of chromium during tropical weathering: A laterite profile from Central Madagascar. Geoderma, 2014, 213, 521-532.	2.3	90
48	Late Quaternary history of the Vakinankaratra volcanic field (central Madagascar): insights from luminescence dating of phreatomagmatic eruption deposits. Bulletin of Volcanology, 2014, 76, 1.	1.1	15
49	Exhumation rates in the Archean from pressure–time paths: Example from the Skjoldungen Orogen (SE) Tj ETC	2q1 1 0.78	4314 rgBT /(
50	Manganiferous minerals of the epidote group from the Archaean basement of West Greenland. Bulletin of the Geological Society of Denmark, 2014, 62, 27-32.	1.1	1
51	Dating brittle tectonic movements with cleft monazite: Fluidâ€rock interaction and formation of REE minerals. Tectonics, 2013, 32, 1176-1189.	1.3	21
52	Constraints on fluid evolution during metamorphism from U–Th–Pb systematics in Alpine hydrothermal monazite. Chemical Geology, 2012, 326-327, 61-71.	1.4	74
53	Single and double exhumation of fault blocks in the internal Sesia-Lanzo Zone and the Ivrea-Verbano Zone (Biella, Italy). International Journal of Earth Sciences, 2012, 101, 1877-1894.	0.9	27
54	Allanite behaviour during incipient melting in the southern Central Alps. Geochimica Et Cosmochimica Acta, 2012, 84, 433-458.	1.6	48

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55	Dating emplacement and evolution of the orogenic magmatism in the internal Western Alps: 1. The Miagliano Pluton. Swiss Journal of Geosciences, 2012, 105, 49-65.	0.5	20
56	Dating emplacement and evolution of the orogenic magmatism in the internal Western Alps: 2. The Biella Volcanic Suite. Swiss Journal of Geosciences, 2012, 105, 67-84.	0.5	27
57	Reply to Higgins, M.D., 2012. Comment on Berger A., Herwegh M., Schwarz JO., Putlitz B., 2011. Quantitative analysis of crystal/grain sizes and their distributions in 2D and 3D. Journal of Structural Geology, 2012, 40, 56-57.	1.0	О
58	Mechanisms of mass and heat transport during Barrovian metamorphism: A discussion based on field evidence from the Central Alps (Switzerland/northern Italy). Tectonics, 2011, 30, .	1.3	67
59	The timing of the tectono-metamorphic evolution at the Neoproterozoic–Phanerozoic boundary in central southern Madagascar. Precambrian Research, 2011, 185, 131-148.	1.2	27
60	Porphyroblast crystallization kinetics: the role of the nutrient production rate. Journal of Metamorphic Geology, 2011, 29, 497-512.	1.6	18
61	Grain coarsening in polymineralic contact metamorphic carbonate rocks: The role of different physical interactions during coarsening. Journal of Structural Geology, 2011, 33, 698-712.	1.0	10
62	Quantitative analysis of crystal/grain sizes and their distributions in 2D and 3D. Journal of Structural Geology, 2011, 33, 1751-1763.	1.0	76
63	The role of second phases for controlling microstructural evolution in polymineralic rocks: A review. Journal of Structural Geology, 2011, 33, 1728-1750.	1.0	135
64	Physico-chemical control on the REE minerals in chloritoid-grade metasediments from a single outcrop (Central Alps, Switzerland). Lithos, 2011, 121, 1-11.	0.6	33
65	Preservation of Permian allanite within an Alpine eclogite facies shear zone at Mt Mucrone, Italy: Mechanical and chemical behavior of allanite during mylonitization. Lithos, 2011, 125, 40-50.	0.6	52
66	3-D assessment of peak-metamorphic conditions by Raman spectroscopy of carbonaceous material: an example from the margin of the Lepontine dome (Swiss Central Alps). International Journal of Earth Sciences, 2011, 100, 1029-1063.	0.9	48
67	The composition and evolution of an Oligocene regolith on top of the Sesia–Lanzo Zone (Western) Tj ETQq1 1	0.784314	rgBT /Over
68	The Effects of Retrograde Reactions and of Diffusion on 40Ar–39Ar Ages of Micas. Journal of Petrology, 2011, 52, 691-716.	1.1	60
69	A new perspective on the significance of the Ranotsara shear zone in Madagascar. International Journal of Earth Sciences, 2010, 99, 1827-1847.	0.9	22
70	Reactionâ€induced nucleation and growth <i>v.</i> grain coarsening in contact metamorphic, impure carbonates. Journal of Metamorphic Geology, 2010, 28, 809-824.	1.6	8
71	Correction to "On the causes and modes of exhumation and lateral growth of the Alps― Tectonics, 2010, 29, n/a-n/a.	1.3	2
72	Chemical U-Th-Pb dating of monazite by 3D-Micro X-ray fluorescence analysis with synchrotron radiation. European Journal of Mineralogy, 2009, 21, 927-945.	0.4	22

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73	Protracted fluid-induced melting during Barrovian metamorphism in the Central Alps. Contributions To Mineralogy and Petrology, 2009, 158, 703-722.	1.2	176
74	Stability and isotopic dating of monazite and allanite in partially molten rocks: examples from the Central Alps. Swiss Journal of Geosciences, 2009, 102, 15-29.	0.5	24
75	Alpine orogenic evolution from subduction to collisional thermal overprint: The <sup>40</sup> Ar/ <sup>39</sup> Ar age constraints from the Valaisan Ocean, central Alps. Tectonics, 2009, 28, .	1.3	62
76	Metamorphic rates in collisional orogeny from in situ allanite and monazite dating. Geology, 2009, 37, 11-14.	2.0	127
77	On the causes and modes of exhumation and lateral growth of the Alps. Tectonics, 2009, 28, .	1.3	48
78	Growth related zonations in authigenic and hydrothermal quartz characterized by SIMS-, EPMA-, SEM-CL- and SEM-CC-imaging. Mineralogical Magazine, 2009, 73, 633-643.	0.6	49
79	From subduction to collision: Thermal overprint of HP/LT meta-sediments in the north-eastern Lepontine Dome (Swiss Alps) and consequences regarding the tectono-metamorphic evolution of the Alpine orogenic wedge. Swiss Journal of Geosciences, 2008, 101, 127-155.	0.5	51
80	Prograde metamorphic sequence of REE minerals in pelitic rocks of the Central Alps: implications for allanite–monazite–xenotime phase relations from 250 to 610â€ $f$ °C. Journal of Metamorphic Geology, 2008, 26, 509-526.	1.6	236
81	Tectonically controlled fluid flow and water-assisted melting in the middle crust: An example from the Central Alps. Lithos, 2008, 102, 598-615.	0.6	80
82	Grain coarsening maps for polymineralic carbonate mylonites: A calibration based on data from different Helvetic nappes (Switzerland). Tectonophysics, 2008, 457, 128-142.	0.9	35
83	Discrimination of annealed and dynamic fabrics: Consequences for strain localization and deformation episodes of large-scale shear zones. Earth and Planetary Science Letters, 2008, 276, 52-61.	1.8	29
84	Formation and composition of rhabdophane, bastnäte and hydrated thorium minerals during alteration: Implications for geochronology and low-temperature processes. Chemical Geology, 2008, 254, 238-248.	1.4	107
85	Metamorphism of metasediments at the scale of an orogen: a key to the Tertiary geodynamic evolution of the Alps. Geological Society Special Publication, 2008, 298, 393-411.	0.8	90
86	Subduction-related metamorphism in the Alps: review of isotopic ages based on petrology and their geodynamic consequences. Geological Society Special Publication, 2008, 298, 117-144.	0.8	71
87	Crystal chemical and structural characterization of an Mg-rich osumilite from Vesuvius volcano (Italy). European Journal of Mineralogy, 2008, 20, 713-720.	0.4	9
88	From subduction to collision: thermal overprint of HP/LT meta-sediments in the north-eastern Lepontine Dome (Swiss Alps) and consequences regarding the tectono-metamorphic evolution of the Alpine orogenic wedge., 2008,, S127-S155.		5
89	Late Neoproterozoic, Ordovician and Carboniferous events recorded in monazites from southern-central Madagascar. Precambrian Research, 2006, 144, 278-296.	1.2	34
90	Equilibration and disequilibration between monazite and garnet: indication from phase-composition and quantitative texture analysis. Journal of Metamorphic Geology, 2005, 23, 051031032640004.	1.6	5

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91	Grain coarsening maps: A new tool to predict microfabric evolution of polymineralic rocks. Geology, 2005, 33, 801.	2.0	29
92	An improved equation for crystal size distribution in second-phase influenced aggregates. American Mineralogist, 2004, 89, 126-131.	0.9	5
93	Grain coarsening in contact metamorphic carbonates: effects of second-phase particles, fluid flow and thermal perturbations. Journal of Metamorphic Geology, 2004, 22, 459-474.	1.6	30
94	Deformation mechanisms in second-phase affected microstructures and their energy balance. Journal of Structural Geology, 2004, 26, 1483-1498.	1.0	74
95	U-Th-Pb and 230Th/238U disequilibrium isotope systematics: Precise accessory mineral chronology and melt evolution tracing in the Alpine Bergell intrusion. Geochimica Et Cosmochimica Acta, 2004, 68, 2543-2560.	1.6	139
96	Preservation of chemical residue-melt equilibria in natural anatexite: the effects of deformation and rapid cooling. Contributions To Mineralogy and Petrology, 2003, 144, 416-427.	1.2	15
97	Differences in grain growth of calcite: a field-based modeling approach. Contributions To Mineralogy and Petrology, 2003, 145, 600-611.	1.2	37
98	Nondestructive chemical dating of young monazite using XRF. Chemical Geology, 2002, 191, 243-255.	1.4	16
99	Syntectonic melt pathways in granitic gneisses, and melt-induced transitions in deformation mechanisms. Physics and Chemistry of the Earth, 2001, 26, 287-293.	0.6	23
100	Role of the tectonic accretion channel in collisional orogeny. Geology, 2001, 29, 1143.	2.0	104
101	Crystallization processes in migmatites. American Mineralogist, 2001, 86, 215-224.	0.9	18
102	Metamorphic Evolution of Cordierite-Bearing Migmatites from the Bayerische Wald (Variscan Belt,) Tj ETQq0 0 C	) rgBT /Ov	erlock 10 Tf 5(
103	Metamorphic Evolution of Cordierite-Bearing Migmatites from the Bayerische Wald (Variscan Belt,) Tj ETQq $1\ 1\ C$	).784314 ı 1.1	gBT/Overlock
104	Deformation mechanisms and reaction of hornblende: examples from the Bergell tonalite (Central) Tj ETQq0 0 0	rgBTJOve	erlock 10 Tf 50
105	Observations from the floor of a granitoid pluton: Inferences on the driving force of final emplacement. Geology, 1995, 23, 443.	2.0	92
106	Grain-size-reducing- and mass-gaining processes in different hydrothermal fault rocks. Geological Magazine, 0, , 1-19.	0.9	0