G Hr Bokelmann

List of Publications by Citations

54 papers	1,398 citations	20 h-index	36 g-index
60 ext. papers	1,622 ext. citations	3.3 avg, IF	4.71 L-index

#	Paper	IF	Citations
54	SplitLab: A shear-wave splitting environment in Matlab. *Computers and Geosciences*, **2008**, 34, 515-528	4.5	205
53	Null Detection in Shear-Wave Splitting Measurements. *Bulletin of the Seismological Society of America*, **2007**, 97, 1204-1211	2.3	161
52	Identifying global seismic anisotropy patterns by correlating shear-wave splitting and surface-wave data. *Physics of the Earth and Planetary Interiors*, **2009**, 176, 198-212	2.3	114
51	The AlpArray Seismic Network: A Large-Scale European Experiment to Image the Alpine Orogen. *Surveys in Geophysics*, **2018**, 39, 1009-1033	7.6	79
50	Upper-mantle flow beneath French Polynesia from shear wave splitting. *Geophysical Journal International*, **2007**, 170, 1262-1288	2.6	55
49	Spectral analysis with incomplete time series: an example from seismology. *Computers and Geosciences*, **1999**, 25, 739-750	4.5	50
48	Belt-parallel mantle flow beneath a halted continental collision: The Western Alps. *Earth and Planetary Science Letters*, **2011**, 302, 429-438	5.3	49
47	Which forces drive North America?. *Geology*, **2002**, 30, 1027	5	47
46	Seismic anisotropy beneath southern Iberia from SKS splitting. *Earth and Planetary Science Letters*, **2008**, 273, 237-250	5.3	46
45	Upper mantle flow beneath and around the Hangay dome, Central Mongolia. *Earth and Planetary Science Letters*, **2008**, 274, 221-233	5.3	42
44	Shear-wave splitting to test mantle deformation models around Hawaii. *Geophysical Research Letters*, **2001**, 28, 4319-4322	4.9	42
43	Slab detachment under the Eastern Alps seen by seismic anisotropy. *Earth and Planetary Science Letters*, **2015**, 409, 96-108	5.3	39
42	Convection-driven motion of the North American craton: Evidence from P-wave anisotropy. *Geophysical Journal International*, **2002**, 148, 278-287	2.6	35
41	From mountain summits to roots: Crustal structure of the Eastern Alps and Bohemian Massif along longitude 13.3°E. *Tectonophysics*, **2018**, 744, 239-255	3.1	29
40	Nature of the Vrancea seismic zone (Eastern Carpathians) New constraints from dispersion of first-arriving P-waves. *Earth and Planetary Science Letters*, **2014**, 390, 59-68	5.3	26
39	Seismic anisotropy and large-scale deformation of the Eastern Alps. *Earth and Planetary Science Letters*, **2013**, 383, 1-6	5.3	26
38	Time-lapse analysis of ambient surface wave anisotropy: A three-component array study above an underground gas storage. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 5339-5351	3.6	24

37	Insights on the upper mantle beneath the Eastern Alps. *Earth and Planetary Science Letters*, **2014**, 403, 199-209	5.3	23
36	Equidistant Spectral Lines in Train Vibrations. *Seismological Research Letters*, **2018**, 89, 56-66	3	23
35	Testing oceanic subduction and convective removal models for the Gibraltar arc: Seismological constraints from dispersion and anisotropy. *Tectonophysics*, **2011**, 502, 28-37	3.1	22
34	Evidence for ancient lithospheric deformation in the East European Craton based on mantle seismic anisotropy and crustal magnetics. *Tectonophysics*, **2010**, 481, 16-28	3.1	20
33	Mantle structure under Gibraltar constrained by dispersion of body waves. *Geophysical Research Letters*, **2007**, 34,	4.9	20
32	Estimating the upper limit of prehistoric peak ground acceleration using an in situ, intact and vulnerable stalagmite from Plaveck□priepast cave (Detrek□zsomboly), Little Carpathians, Slovakia-first results. *Journal of Seismology*, **2017**, 21, 1111-1130	1.5	17
31	Deformation in the asthenospheric mantle beneath the Carpathian-Pannonian Region. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 6644-6657	3.6	17
30	Seismo-acoustic signals of the Baumgarten (Austria) gas explosion detected by the AlpArray seismic network. *Earth and Planetary Science Letters*, **2018**, 502, 104-114	5.3	16
29	AlpArray in Austria and Slovakia: technical realization, site description and noise characterization. *Advances in Geosciences*,43, 1-13		15
28	Crustal anisotropy across northern Japan from receiver functions. *Journal of Geophysical Research: Solid Earth*, **2015**, 120, 4998-5012	3.6	14
27	Regional Ambient Noise Tomography in the Eastern Alps of Europe. *Pure and Applied Geophysics*, **2016**, 173, 2813-2840	2.2	12
26	Ambient-noise tomography of the wider Vienna Basin region. *Geophysical Journal International*, **2018**, 215, 102-117	2.6	12
25	Rich observations of local and regional infrasound phases made by the AlpArray seismic network after refinery explosion. *Scientific Reports*, **2019**, 9, 13027	4.9	10
24	Seismic signature of the Alpine indentation, evidence from the Eastern Alps. *Journal of Geodynamics*, **2014**, 82, 69-77	2.2	10
23	Site selection for a countrywide temporary network in Austria: noise analysis and preliminary performance. *Advances in Geosciences*,41, 25-33		10
22	Seismic anisotropy in the south western Pacific region from shear wave splitting. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	9
21	Numerical Modeling of Stalagmite Vibrations. *Pure and Applied Geophysics*, **2018**, 175, 4501-4514	2.2	9
20	A New Seismic Data Set on the Depth of the Moho in the Alps. *Pure and Applied Geophysics*, **2015**, 172, 295-308	2.2	8

19	Seismic resonances of spherical acoustic cavities. *Geophysical Prospecting*, **2017**, 65, 1-24	1.9	7
18	Arrival angles of teleseismic fundamental mode Rayleigh waves across the AlpArray. *Geophysical Journal International*, **2019**, 218, 115-144	2.6	7
17	Instrument self-noise and sensor misalignment. *Advances in Geosciences*,36, 17-20		5
16	Crustal structures beneath the Eastern and Southern Alps from ambient noise tomography. *Solid Earth*, **2020**, 11, 1947-1968	3.3	5
15	Characteristics of the Ambient Seismic Field on a Large-N Seismic Array in the Vienna Basin. *Seismological Research Letters*, **2020**, 91, 2803-2816	3	5
14	Seismic anisotropy of northeastern Algeria from shear-wave splitting analysis. *Physics of the Earth and Planetary Interiors*, **2015**, 248, 73-82	2.3	4
13	Surface Wave Diffraction Pattern Recorded on AlpArray: Cameroon Volcanic Line Case Study. *Journal of Geophysical Research: Solid Earth*, **2020**, 125, e2019JB019102	3.6	4
12	Flow plane orientation in the upper mantle under the Western/Central United States from SKS shear-wave splitting observations. *Geophysical Journal International*, **2020**, 221, 1125-1137	2.6	3
11	The installation campaign of 9 seismic stations around the KTB site to test anisotropy detection by the Receiver Function Technique. *Advances in Geosciences*,41, 11-23		3
10	Shear wave splitting in the Alpine region. *Geophysical Journal International*, **2021**, 227, 1996-2015	2.6	3
9	Azimuthal anisotropy in the wider Vienna basin region: a proxy for the present-day stress field and deformation. *Geophysical Journal International*, **2020**, 220, 2056-2067	2.6	2
8	Imaging the Variscan suture at the KTB deep drilling site, Germany. *Geophysical Journal International*, **2018**, 213, 2138-2146	2.6	2
7	Probing crustal anisotropy by receiver functions at the deep continental drilling site KTB in Southern Germany. *Geophysical Prospecting*, **2019**, 67, 2450-2464	1.9	2
6	Correlated crustal and mantle deformation in the Tauern Window, Eastern Alps. *Austrian Journal of Earth Sciences*, **2015**, 108, 159-171	0.9	2
5	On the wobbles of phase-velocity dispersion curves. *Geophysical Journal International*, **2020**, 224, 1477-1504	2.6	2
4	The Alland earthquake sequence in Eastern Austria: Shedding light on tectonic stress geometry in a key area of seismic hazard. *Austrian Journal of Earth Sciences*, **2019**, 112, 182-194	0.9	1
3	Constraints on Olivine Deformation From SKS Shear-Wave Splitting Beneath the Southern Cascadia Subduction Zone Back-Arc. *Geochemistry, Geophysics, Geosystems*, **2021**, 22, e2021GC010091	3.6	1
2	The 2013 Earthquake Series in the Southern Vienna Basin: location. *Advances in Geosciences*,36, 77-80		1

List of Publications

1	Lateral variation of crustal properties from aerogeophysical data in northern Brazil. *Geophysics*, **2017**, 82, J39-J60	3.1