Marco Bohnhoff

List of Publications by Year
in descending order

106 papers	3,785 citations	109137 35 h-index	149479 56 g-index
123 all docs	123 docs citations	123 times ranked	2461 citing authors

#	Article	IF	Citations
1	Does Deep Tectonic Tremor Occur in the Centralâ€Eastern Mediterranean Basin?. Journal of Geophysical Research: Solid Earth, 2021, 126, 2020JB020448.	1.4	4
2	Experimental Investigation on Static and Dynamic Bulk Moduli of Dry and Fluid-Saturated Porous Sandstones. Rock Mechanics and Rock Engineering, 2021, 54, 129-148.	2.6	17
3	Borehole Seismic Networks and Arrays. Encyclopedia of Earth Sciences Series, 2021, , 44-52.	0.1	0
4	Seismicity during and after stimulation of a 6.1â€‰km deep enhanced geothermal system in Helsinki, Finland. Solid Earth, 2021, 12, 581-594.	1.2	15
5	Earthquake Source Mechanisms and Stress Field Variations Associated With Wastewaterâ€Induced Seismicity in Southern Kansas, USA. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021625.	1.4	4
6	Near-Fault Monitoring Reveals Combined Seismic and Slow Activation of a Fault Branch within the Istanbulâ€“Marmara Seismic Gap in Northwest Turkey. Seismological Research Letters, 2021, 92, 3743-3756.	0.8	8
7	Future Challenges in Continental Scientific Drilling. Journal of the Geological Society of India, 2021, 97, 971-974.	0.5	1
8	Lithospheric strength variations and seismotectonic segmentation below the Sea of Marmara. Tectonophysics, 2021, 815, 228999.	0.9	2
9	Contemporary stress and strain field in the Mediterranean from stress inversion of focal mechanisms and GPS data. Tectonophysics, 2020, 774, 228286.	0.9	6
10	Stress dropâ€“magnitude dependence of acoustic emissions during laboratory stick-slip. Geophysical Journal International, 2020, 224, 1371-1380.	1.0	23
11	Injectionâ€Induced Seismic Moment Release and Laboratory Fault Slip: Implications for Fluidâ€Induced Seismicity. Geophysical Research Letters, 2020, 47, e2020GL089576.	1.5	27
12	A Two-Scale Preparation Phase Preceded an MwÂ5.8 Earthquake in the Sea of Marmara Offshore Istanbul, Turkey. Seismological Research Letters, 2020, 91, 3139-3147.	0.8	22
13	Crustal Thickness Variation Across the Sea of Marmara Region, NW Turkey: A Reflection of Modern and Ancient Tectonic Processes. Tectonics, 2020, 39, e2019TC005986.	1.3	8
14	Geophysical Borehole Observatory at the North Anatolian Fault in the Eastern Sea of Marmara (GONAF): initial results. Journal of Seismology, 2020, 24, 375-395.	0.6	2
15	Laboratory Study on Fluidâ€Induced Fault Slip Behavior: The Role of Fluid Pressurization Rate. Geophysical Research Letters, 2020, 47, e2019GL086627.	1.5	63
16	Seismic Moment Evolution During Hydraulic Stimulations. Geophysical Research Letters, 2020, 47, e2019GL086185.	1.5	27
17	Pressure-dependent bulk compressibility of a porous granular material modeled by improved contact mechanics and micromechanical approaches: Effects of surface roughness of grains. Acta Materialia, 2020, 188, 259-272.	3.8	11
18	Induced earthquake potential in geothermal reservoirs: Insights from The Geysers, California. The Leading Edge, 2020, 39, 873-882.	0.4	4

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19	Borehole Seismic Networks and Arrays. Encyclopedia of Earth Sciences Series, 2020, , 1-9.	0.1	0
20	Analysis of Microseismicity Framing M L > 2.5 Earthquakes at The Geysers Geothermal Field, California. Journal of Geophysical Research: Solid Earth, 2019, 124, 8823-8843.	1.4	6
21	Seismic clustering in the Sea of Marmara: Implications for monitoring earthquake processes. Tectonophysics, 2019, 768, 228176.	0.9	13
22	Sensitivity and Stability Analysis of Coda Quality Factors at The Geysers Geothermal Field, California. Bulletin of the Seismological Society of America, 2019, 109, 959-975.	1.1	6
23	Slow strain release along the eastern Marmara region offshore Istanbul in conjunction with enhanced local seismic moment release. Earth and Planetary Science Letters, 2019, 510, 209-218.	1.8	18
24	Frequencyâ€Dependent Moment Tensors of Induced Microearthquakes. Geophysical Research Letters, 2019, 46, 6406-6414.	1.5	9
25	Controlling fluid-induced seismicity during a 6.1-km-deep geothermal stimulation in Finland. Science Advances, 2019, 5, eaav7224.	4.7	148
26	First field application of cyclic soft stimulation at the Pohang Enhanced Geothermal System site in Korea. Geophysical Journal International, 2019, 217, 926-949.	1.0	90
27	Stress Inversion of Regional Seismicity in the Sea of Marmara Region, Turkey. Pure and Applied Geophysics, 2019, 176, 1269-1291.	0.8	6
28	Comparative Study of Earthquake Clustering in Relation to Hydraulic Activities at Geothermal Fields in California. Journal of Geophysical Research: Solid Earth, 2018, 123, 4041-4062.	1.4	26
29	Study of the Rock Mass Failure Process and Mechanisms During the Transformation from Open-Pit to Underground Mining Based on Microseismic Monitoring. Rock Mechanics and Rock Engineering, 2018, 51, 1473-1493.	2.6	39
30	Imaging the Mudurnu Segment of the North Anatolian Fault Zone From Waveforms of Small Earthquakes. Journal of Geophysical Research: Solid Earth, 2018, 123, 493-512.	1.4	2
31	Gas and seismicity within the Istanbul seismic gap. Scientific Reports, 2018, 8, 6819.	1.6	19
32	Sensitivity of Full Moment Tensors to Data Preprocessing and Inversion Parameters: A Case Study from the Salton Sea Geothermal Field. Bulletin of the Seismological Society of America, 2018, 108, 588-603.	1.1	9
33	Microearthquakes preceding a M4.2 Earthquake Offshore Istanbul. Scientific Reports, 2018, 8, 16176.	1.6	20
34	Moment Tensors of Induced Microearthquakes in The Geysers Geothermal Reservoir From Broadband Seismic Recordings: Implications for Faulting Regime, Stress Tensor, and Fluid Pressure. Journal of Geophysical Research: Solid Earth, 2018, 123, 8748-8766.	1.4	31
35	A unified earthquake catalogue for the Sea of Marmara Region, Turkey, based on automatized phase picking and travel-time inversion: Seismotectonic implications. Tectonophysics, 2018, 747-748, 416-444.	0.9	35
36	Insights Into Complex Subdecimeter Fracturing Processes Occurring During a Water Injection Experiment at Depth in Ã„spÃ¶ Hard Rock Laboratory, Sweden. Journal of Geophysical Research: Solid Earth, 2018, 123, 6616-6635.	1.4	36

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37	Volumetric components in the earthquake source related to fluid injection and stress state. Geophysical Research Letters, 2017, 44, 800-809.	1.5	64
38	Estimation of the differential stress from the stress rotation angle in low permeable rock. Geophysical Research Letters, 2017, 44, 6761-6770.	1.5	12
39	Repeating Marmara Sea earthquakes: indication for fault creep. Geophysical Journal International, 2017, 210, 332-339.	1.0	45
40	Variations of seismic b-value at different stages of the seismic cycle along the North Anatolian Fault Zone in northwestern Turkey. Tectonophysics, 2017, 712-713, 232-248.	0.9	13
41	Maximum earthquake magnitudes along different sections of the North Anatolian fault zone. Tectonophysics, 2016, 674, 147-165.	0.9	82
42	HybridMT: A MATLAB/Shell Environment Package for Seismic Moment Tensor Inversion and Refinement. Seismological Research Letters, 2016, 87, 964-976.	0.8	72
43	Impact of fluid injection on fracture reactivation at The Geysers geothermal field. Journal of Geophysical Research: Solid Earth, 2016, 121, 7432-7449.	1.4	40
44	Shallow crustal discontinuities inferred from waveforms of microearthquakes: Method and application to KTB Drill Site and West Bohemia Swarm Area. Journal of Geophysical Research: Solid Earth, 2016, 121, 881-902.	1.4	10
45	Seismicity distribution in conjunction with spatiotemporal variations of coseismic slip and postseismic creep along the combined 1999 Izmit-DÃ¼zce rupture. Tectonophysics, 2016, 686, 132-145.	0.9	17
46	Seismicâ€Wave Propagation in Shallow Layers at the GONAFâ€Tuzla Site, Istanbul, Turkey. Bulletin of the Seismological Society of America, 2016, 106, 912-927.	1.1	11
47	Sensitivity of stress inversion of focal mechanisms to pore pressure changes. Geophysical Research Letters, 2016, 43, 8441-8450.	1.5	29
48	A refined methodology for stress inversions of earthquake focal mechanisms. Journal of Geophysical Research: Solid Earth, 2016, 121, 8666-8687.	1.4	78
49	Bimaterial interfaces at the Karadere segment of the North Anatolian Fault, northwestern Turkey. Journal of Geophysical Research: Solid Earth, 2016, 121, 931-950.	1.4	32
50	Seismic moment tensors of acoustic emissions recorded during laboratory rock deformation experiments: sensitivity to attenuation and anisotropy. Geophysical Journal International, 2016, 205, 38-50.	1.0	35
51	Scaling of maximum observed magnitudes with geometrical and stress properties of strikeâ€slip faults. Geophysical Research Letters, 2015, 42, 10,230.	1.5	13
52	Effects of longâ€term fluid injection on induced seismicity parameters and maximum magnitude in northwestern part of The Geysers geothermal field. Journal of Geophysical Research: Solid Earth, 2015, 120, 7085-7101.	1.4	88
53	Downhole geophysical observatories: best installation practices and a case history from Turkey. International Journal of Earth Sciences, 2015, 104, 1537-1547.	0.9	17
54	Detailed analysis of spatiotemporal variations of the stress field orientation along the Izmit-DÃ¼zce rupture in NW Turkey from inversion of first-motion polarity data. Geophysical Journal International, 2015, 202, 2120-2132.	1.0	18

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55	Stress Tensor Changes Related to Fluid Injection at The Geysers Geothermal Field, California. , 2014, , .		0
56	MSATSI: A MATLAB Package for Stress Inversion Combining Solid Classic Methodology, a New Simplified User-Handling, and a Visualization Tool. Seismological Research Letters, 2014, 85, 896-904.	0.8	123
57	Ambient Noise Analysis in the Eastern Sea of Marmara Region in Northwest Turkey: Lateral Variations of the Crustal Velocity Field. Bulletin of the Seismological Society of America, 2014, 104, 1954-1963.	1.1	2
58	Stress rotation and recovery in conjunction with the 1999 Izmit Mw 7.4 earthquake. Geophysical Journal International, 2014, 196, 951-956.	1.0	20
59	Coseismic velocity change associated with the 2011 Van earthquake (M7.1): Crustal response to a major event. Geophysical Research Letters, 2014, 41, 4519-4526.	1.5	10
60	Resolution of non-double-couple components in the seismic moment tensor using regional networksâ€”I: a synthetic case study. Geophysical Journal International, 2014, 196, 1869-1877.	1.0	53
61	High-resolution analysis of seismicity induced at BerlÃn geothermal field, El Salvador. Geothermics, 2014, 52, 98-111.	1.5	81
62	Resolution of non-double-couple components in the seismic moment tensor using regional networksâ€”II: application to aftershocks of the 1999 Mw 7.4 Izmit earthquake. Geophysical Journal International, 2014, 196, 1878-1888.	1.0	45
63	Spatiotemporal changes, faulting regimes, and source parameters of induced seismicity: A case study from The Geysers geothermal field. Journal of Geophysical Research: Solid Earth, 2014, 119, 8378-8396.	1.4	93
64	Stress tensor changes related to fluid injection at The Geysers geothermal field, California. Geophysical Research Letters, 2013, 40, 2596-2601.	1.5	93
65	Crustal Anisotropy in the Eastern Sea of Marmara Region in Northwestern Turkey. Bulletin of the Seismological Society of America, 2013, 103, 911-924.	1.1	25
66	An earthquake gap south of Istanbul. Nature Communications, 2013, 4, 1999.	5.8	105
67	Microseismic Monitoring of CO2 Injection at the Penn West Enhanced Oil Recovery Pilot Project, Canada: Implications for Detection of Wellbore Leakage. Sensors, 2013, 13, 11522-11538.	2.1	12
68	Stress- and Structure-Induced Shear-Wave Anisotropy along the 1999 Izmit Rupture, Northwest Turkey. Bulletin of the Seismological Society of America, 2012, 102, 2177-2188.	1.1	22
69	Evidence for a bimaterial interface along the Mudurnu segment of the North Anatolian Fault Zone from polarization analysis of P waves. Earth and Planetary Science Letters, 2012, 327-328, 17-22.	1.8	49
70	The East Anatolian Fault Zone: Seismotectonic setting and spatiotemporal characteristics of seismicity based on precise earthquake locations. Journal of Geophysical Research, 2012, 117, .	3.3	82
71	Spatiotemporal Earthquake Clusters along the North Anatolian Fault Zone Offshore Istanbul. Bulletin of the Seismological Society of America, 2011, 101, 1759-1768.	1.1	18
72	Microseismicity induced during fluid-injection: A case study from the geothermal site at GroÃŸ SchÃ¶nebeck, North German Basin. Acta Geophysica, 2010, 58, 995-1020.	1.0	42

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73	Seismicity at the convergent plate boundary offshore Crete, Greece, observed by an amphibian network. Journal of Seismology, 2010, 14, 369-392.	0.6	31
74	P and S velocity structures of the Santoriniâ€“Coloumbo volcanic system (Aegean Sea, Greece) obtained by non-linear inversion of travel times and its tectonic implications. Journal of Volcanology and Geothermal Research, 2010, 195, 13-30.	0.8	44
75	Seismic detection of CO2 leakage along monitoring wellbores. International Journal of Greenhouse Gas Control, 2010, 4, 687-697.	2.3	25
76	Oscillation of fluidâ€filled cracks triggered by degassing of CO₂ due to leakage along wellbores. Journal of Geophysical Research, 2010, 115, .	3.3	17
77	Correction to â€œAnatomy of the Dead Sea Transform from lithospheric to microscopic scaleâ€. Reviews of Geophysics, 2010, 48, .	9.0	1
78	Seismotectonic setting of the Karadereâ€“DÃ¼zce branch of the North Anatolian Fault Zone between the 1999 Izmit and DÃ¼zce ruptures from analysis of Izmit aftershock focal mechanisms. Tectonophysics, 2010, 482, 170-181.	0.9	30
79	Tectonic evolution of the Ganos segment of the North Anatolian Fault (NW Turkey). Journal of Structural Geology, 2009, 31, 11-28.	1.0	26
80	Seismicity and active tectonics at Coloumbo Reef (Aegean Sea, Greece): Monitoring an active volcano at Santorini Volcanic Center using a temporary seismic network. Tectonophysics, 2009, 465, 136-149.	0.9	71
81	Analysis of Izmit aftershocks 25Âdays before the November 12th 1999 DÃ¼zce earthquake, Turkey. Tectonophysics, 2009, 474, 507-515.	0.9	30
82	Passive Seismic Monitoring of Natural and Induced Earthquakes: Case Studies, Future Directions and Socio-Economic Relevance. , 2009, , 261-285.		32
83	Microseismicity at the North Anatolian Fault in the Sea of Marmara offshore Istanbul, NW Turkey. Journal of Geophysical Research, 2009, 114, .	3.3	45
84	Anatomy of the Dead Sea Transform from lithospheric to microscopic scale. Reviews of Geophysics, 2009, 47, .	9.0	56
85	Svelocity structure and radial anisotropy in the Aegean region from surface wave dispersion. Geophysical Journal International, 2008, 174, 593-616.	1.0	60
86	Non-double-couple mechanisms of microearthquakes induced during the 2000 injection experiment at the KTB site, Germany: A result of tensile faulting or anisotropy of a rock?. Tectonophysics, 2008, 456, 74-93.	0.9	85
87	A model for the Hellenic subduction zone in the area of Crete based on seismological investigations. Geological Society Special Publication, 2007, 291, 183-199.	0.8	36
88	ML Scale in Northwestern Turkey from 1999 Izmit Aftershocks: Updates. Bulletin of the Seismological Society of America, 2007, 97, 331-338.	1.1	15
89	Different styles of faulting deformation along the Dead Sea Transform and possible consequences for the recurrence of major earthquakes. Journal of Geodynamics, 2007, 44, 66-89.	0.7	11
90	Comparison of gravimetric and seismic constraints on the structure of the Aegean lithosphere in the forearc of the Hellenic subduction zone in the area of Crete. Journal of Geodynamics, 2007, 44, 173-185.	0.7	27

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91	Characterization of aftershockâ€fault plane orientations of the 1999 Ä°zmit (Turkey) earthquake using highâ€resolution aftershock locations. Geophysical Research Letters, 2007, 34, .	1.5	43
92	Lithospheric structure of the Aegean obtained from P and S receiver functions. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	145
93	Spatio-temporal microseismicity clustering in the Cretan region. Tectonophysics, 2006, 423, 3-16.	0.9	25
94	Microseismic activity in the Hellenic Volcanic Arc, Greece, with emphasis on the seismotectonic setting of the Santoriniâ€“Amorgos zone. Tectonophysics, 2006, 423, 17-33.	0.9	97
95	Strain partitioning and stress rotation at the North Anatolian fault zone from aftershock focal mechanisms of the 1999 IzmitMw= 7.4 earthquake. Geophysical Journal International, 2006, 166, 373-385.	1.0	90
96	Deformation and stress regimes in the Hellenic subduction zone from focal Mechanisms. Journal of Seismology, 2005, 9, 341-366.	0.6	79
97	Modeling the influence of Moho topography on receiver functions: A case study from the central Hellenic subduction zone. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	20
98	CYC-NET: A Temporary Seismic Network on the Cyclades (Aegean Sea, Greece). Seismological Research Letters, 2004, 75, 352-359.	0.8	31
99	Fault mechanisms of induced seismicity at the superdeep German Continental Deep Drilling Program (KTB) borehole and their relation to fault structure and stress field. Journal of Geophysical Research, 2004, 109, .	3.3	49
100	Crustal structure of the southeastern Iceland-Faeroe Ridge (IFR) from wide aperture seismic data. Journal of Geodynamics, 2004, 37, 233-252.	0.7	26
101	Mutual relationship between microseismicity and seismic reflectivity: Case study at the German Continental Deep Drilling Site (KTB). Geophysical Research Letters, 2003, 30, n/a-n/a.	1.5	12
102	Probing the Crust to 9-km Depth: Fluid-Injection Experiments and Induced Seismicity at the KTB Superdeep Drilling Hole, Germany. Bulletin of the Seismological Society of America, 2002, 92, 2369-2380.	1.1	61
103	Crustal investigation of the Hellenic subduction zone using wide aperture seismic data. Tectonophysics, 2001, 343, 239-262.	0.9	127
104	Seismotectonic setting at the North Anatolian Fault Zone after the 1999 Mw=7.4 Izmit earthquake based on high-resolution aftershock locations. Advances in Geosciences, 0, 14, 85-92.	12.0	5
105	GONAF â€“ the borehole Geophysical Observatory at the North Anatolian Fault in the eastern Sea of Marmara. Scientific Drilling, 0, 22, 19-28.	1.0	19
106	Evaluation of current earthquake activity on the Ganos Fault: MONGAN network test analysis. Bulletin of the Mineral Research and Exploration, 0, , 1-25.	0.5	0