

Marco Bohnhoff

List of Publications by Year in descending order

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106
papers

3,785
citations

109137

35
h-index

149479

56
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123
all docs

123
docs citations

123
times ranked

2461
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling fluid-induced seismicity during a 6.1-km-deep geothermal stimulation in Finland. <i>Science Advances</i> , 2019, 5, eaav7224.	4.7	148
2	Lithospheric structure of the Aegean obtained from P and S receiver functions. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	145
3	Crustal investigation of the Hellenic subduction zone using wide aperture seismic data. <i>Tectonophysics</i> , 2001, 343, 239-262.	0.9	127
4	MSATSI: A MATLAB Package for Stress Inversion Combining Solid Classic Methodology, a New Simplified User-Handling, and a Visualization Tool. <i>Seismological Research Letters</i> , 2014, 85, 896-904.	0.8	123
5	An earthquake gap south of Istanbul. <i>Nature Communications</i> , 2013, 4, 1999.	5.8	105
6	Microseismic activity in the Hellenic Volcanic Arc, Greece, with emphasis on the seismotectonic setting of the Santorini-Amorgos zone. <i>Tectonophysics</i> , 2006, 423, 17-33.	0.9	97
7	Stress tensor changes related to fluid injection at The Geysers geothermal field, California. <i>Geophysical Research Letters</i> , 2013, 40, 2596-2601.	1.5	93
8	Spatiotemporal changes, faulting regimes, and source parameters of induced seismicity: A case study from The Geysers geothermal field. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 8378-8396.	1.4	93
9	Strain partitioning and stress rotation at the North Anatolian fault zone from aftershock focal mechanisms of the 1999 Izmit Mw= 7.4 earthquake. <i>Geophysical Journal International</i> , 2006, 166, 373-385.	1.0	90
10	First field application of cyclic soft stimulation at the Pohang Enhanced Geothermal System site in Korea. <i>Geophysical Journal International</i> , 2019, 217, 926-949.	1.0	90
11	Effects of long-term fluid injection on induced seismicity parameters and maximum magnitude in northwestern part of The Geysers geothermal field. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 7085-7101.	1.4	88
12	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?. <i>Tectonophysics</i> , 2008, 456, 74-93.	0.9	85
13	The East Anatolian Fault Zone: Seismotectonic setting and spatiotemporal characteristics of seismicity based on precise earthquake locations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	82
14	Maximum earthquake magnitudes along different sections of the North Anatolian fault zone. <i>Tectonophysics</i> , 2016, 674, 147-165.	0.9	82
15	High-resolution analysis of seismicity induced at Berl�n geothermal field, El Salvador. <i>Geothermics</i> , 2014, 52, 98-111.	1.5	81
16	Deformation and stress regimes in the Hellenic subduction zone from focal Mechanisms. <i>Journal of Seismology</i> , 2005, 9, 341-366.	0.6	79
17	A refined methodology for stress inversions of earthquake focal mechanisms. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 8666-8687.	1.4	78
18	HybridMT: A MATLAB/Shell Environment Package for Seismic Moment Tensor Inversion and Refinement. <i>Seismological Research Letters</i> , 2016, 87, 964-976.	0.8	72

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19	Seismicity and active tectonics at Coloumbo Reef (Aegean Sea, Greece): Monitoring an active volcano at Santorini Volcanic Center using a temporary seismic network. <i>Tectonophysics</i> , 2009, 465, 136-149.	0.9	71
20	Volumetric components in the earthquake source related to fluid injection and stress state. <i>Geophysical Research Letters</i> , 2017, 44, 800-809.	1.5	64
21	Laboratory Study on Fluid-Induced Fault Slip Behavior: The Role of Fluid Pressurization Rate. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086627.	1.5	63
22	Probing the Crust to 9-km Depth: Fluid-Injection Experiments and Induced Seismicity at the KTB Superdeep Drilling Hole, Germany. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 2369-2380.	1.1	61
23	<i>v</i> elocity structure and radial anisotropy in the Aegean region from surface wave dispersion. <i>Geophysical Journal International</i> , 2008, 174, 593-616.	1.0	60
24	Anatomy of the Dead Sea Transform from lithospheric to microscopic scale. <i>Reviews of Geophysics</i> , 2009, 47, .	9.0	56
25	Resolution of non-double-couple components in the seismic moment tensor using regional networks: a synthetic case study. <i>Geophysical Journal International</i> , 2014, 196, 1869-1877.	1.0	53
26	Fault mechanisms of induced seismicity at the superdeep German Continental Deep Drilling Program (KTB) borehole and their relation to fault structure and stress field. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	49
27	Evidence for a bimaterial interface along the Mudurnu segment of the North Anatolian Fault Zone from polarization analysis of P waves. <i>Earth and Planetary Science Letters</i> , 2012, 327-328, 17-22.	1.8	49
28	Microseismicity at the North Anatolian Fault in the Sea of Marmara offshore Istanbul, NW Turkey. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	45
29	Resolution of non-double-couple components in the seismic moment tensor using regional networks: application to aftershocks of the 1999 Mw 7.4 Izmit earthquake. <i>Geophysical Journal International</i> , 2014, 196, 1878-1888.	1.0	45
30	Repeating Marmara Sea earthquakes: indication for fault creep. <i>Geophysical Journal International</i> , 2017, 210, 332-339.	1.0	45
31	P and S velocity structures of the Santorini-Coloumbo volcanic system (Aegean Sea, Greece) obtained by non-linear inversion of travel times and its tectonic implications. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 195, 13-30.	0.8	44
32	Characterization of aftershock-fault plane orientations of the 1999 İzmit (Turkey) earthquake using high-resolution aftershock locations. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	43
33	Microseismicity induced during fluid-injection: A case study from the geothermal site at Groß-Schnebeck, North German Basin. <i>Acta Geophysica</i> , 2010, 58, 995-1020.	1.0	42
34	Impact of fluid injection on fracture reactivation at The Geysers geothermal field. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7432-7449.	1.4	40
35	Study of the Rock Mass Failure Process and Mechanisms During the Transformation from Open-Pit to Underground Mining Based on Microseismic Monitoring. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 1473-1493.	2.6	39
36	A model for the Hellenic subduction zone in the area of Crete based on seismological investigations. <i>Geological Society Special Publication</i> , 2007, 291, 183-199.	0.8	36

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37	Insights Into Complex Subdecimeter Fracturing Processes Occurring During a Water Injection Experiment at Depth in Å,,spÅ† Hard Rock Laboratory, Sweden. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 6616-6635.	1.4	36
38	Seismic moment tensors of acoustic emissions recorded during laboratory rock deformation experiments: sensitivity to attenuation and anisotropy. <i>Geophysical Journal International</i> , 2016, 205, 38-50.	1.0	35
39	A unified earthquake catalogue for the Sea of Marmara Region, Turkey, based on automatized phase picking and travel-time inversion: Seismotectonic implications. <i>Tectonophysics</i> , 2018, 747-748, 416-444.	0.9	35
40	Passive Seismic Monitoring of Natural and Induced Earthquakes: Case Studies, Future Directions and Socio-Economic Relevance. , 2009, , 261-285.		32
41	Bimaterial interfaces at the Karadere segment of the North Anatolian Fault, northwestern Turkey. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 931-950.	1.4	32
42	CYC-NET: A Temporary Seismic Network on the Cyclades (Aegean Sea, Greece). <i>Seismological Research Letters</i> , 2004, 75, 352-359.	0.8	31
43	Seismicity at the convergent plate boundary offshore Crete, Greece, observed by an amphibian network. <i>Journal of Seismology</i> , 2010, 14, 369-392.	0.6	31
44	Moment Tensors of Induced Microearthquakes in The Geysers Geothermal Reservoir From Broadband Seismic Recordings: Implications for Faulting Regime, Stress Tensor, and Fluid Pressure. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 8748-8766.	1.4	31
45	Analysis of Izmit aftershocks 25Âdays before the November 12th 1999 DÃ¼zce earthquake, Turkey. <i>Tectonophysics</i> , 2009, 474, 507-515.	0.9	30
46	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. <i>Tectonophysics</i> , 2010, 482, 170-181.	0.9	30
47	Sensitivity of stress inversion of focal mechanisms to pore pressure changes. <i>Geophysical Research Letters</i> , 2016, 43, 8441-8450.	1.5	29
48	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. <i>Journal of Geodynamics</i> , 2007, 44, 173-185.	0.7	27
49	Injectionâ€“Induced Seismic Moment Release and Laboratory Fault Slip: Implications for Fluidâ€“Induced Seismicity. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089576.	1.5	27
50	Seismic Moment Evolution During Hydraulic Stimulations. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086185.	1.5	27
51	Crustal structure of the southeastern Iceland-Faeroe Ridge (IFR) from wide aperture seismic data. <i>Journal of Geodynamics</i> , 2004, 37, 233-252.	0.7	26
52	Tectonic evolution of the Ganos segment of the North Anatolian Fault (NW Turkey). <i>Journal of Structural Geology</i> , 2009, 31, 11-28.	1.0	26
53	Comparative Study of Earthquake Clustering in Relation to Hydraulic Activities at Geothermal Fields in California. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 4041-4062.	1.4	26
54	Spatio-temporal microseismicity clustering in the Cretan region. <i>Tectonophysics</i> , 2006, 423, 3-16.	0.9	25

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55	Seismic detection of CO ₂ leakage along monitoring wellbores. International Journal of Greenhouse Gas Control, 2010, 4, 687-697.	2.3	25
56	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
57	Stress drop magnitude dependence of acoustic emissions during laboratory stick-slip. Geophysical Journal International, 2020, 224, 1371-1380.	1.0	23
58	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
59	A Two-Scale Preparation Phase Preceded an Mw 5.8 Earthquake in the Sea of Marmara Offshore Istanbul, Turkey. Seismological Research Letters, 2020, 91, 3139-3147.	0.8	22
60	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
61	Stress rotation and recovery in conjunction with the 1999 Izmit Mw 7.4 earthquake. Geophysical Journal International, 2014, 196, 951-956.	1.0	20
62	Microearthquakes preceding a M4.2 Earthquake Offshore Istanbul. Scientific Reports, 2018, 8, 16176.	1.6	20
63	Gas and seismicity within the Istanbul seismic gap. Scientific Reports, 2018, 8, 6819.	1.6	19
64	GONAF – the borehole Geophysical Observatory at the North Anatolian Fault in the eastern Sea of Marmara. Scientific Drilling, 0, 22, 19-28.	1.0	19
65	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
66	Detailed analysis of spatiotemporal variations of the stress field orientation along the Izmit-1/4 rupture in NW Turkey from inversion of first-motion polarity data. Geophysical Journal International, 2015, 202, 2120-2132.	1.0	18
67	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
68	Oscillation of fluid-filled cracks triggered by degassing of CO ₂ due to leakage along wellbores. Journal of Geophysical Research, 2010, 115, .	3.3	17
69	Downhole geophysical observatories: best installation practices and a case history from Turkey. International Journal of Earth Sciences, 2015, 104, 1537-1547.	0.9	17
70	Seismicity distribution in conjunction with spatiotemporal variations of coseismic slip and postseismic creep along the combined 1999 Izmit-1/4 rupture. Tectonophysics, 2016, 686, 132-145.	0.9	17
71	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
72	ML Scale in Northwestern Turkey from 1999 Izmit Aftershocks: Updates. Bulletin of the Seismological Society of America, 2007, 97, 331-338.	1.1	15

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73	Seismicity during and after stimulation of a 6.1 km deep enhanced geothermal system in Helsinki, Finland. <i>Solid Earth</i> , 2021, 12, 581-594.	1.2	15
74	Scaling of maximum observed magnitudes with geometrical and stress properties of strike-slip faults. <i>Geophysical Research Letters</i> , 2015, 42, 10,230.	1.5	13
75	Variations of seismic b-value at different stages of the seismic cycle along the North Anatolian Fault Zone in northwestern Turkey. <i>Tectonophysics</i> , 2017, 712-713, 232-248.	0.9	13
76	Seismic clustering in the Sea of Marmara: Implications for monitoring earthquake processes. <i>Tectonophysics</i> , 2019, 768, 228176.	0.9	13
77	Mutual relationship between microseismicity and seismic reflectivity: Case study at the German Continental Deep Drilling Site (KTB). <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	12
78	Microseismic Monitoring of CO ₂ Injection at the Penn West Enhanced Oil Recovery Pilot Project, Canada: Implications for Detection of Wellbore Leakage. <i>Sensors</i> , 2013, 13, 11522-11538.	2.1	12
79	Estimation of the differential stress from the stress rotation angle in low permeable rock. <i>Geophysical Research Letters</i> , 2017, 44, 6761-6770.	1.5	12
80	Different styles of faulting deformation along the Dead Sea Transform and possible consequences for the recurrence of major earthquakes. <i>Journal of Geodynamics</i> , 2007, 44, 66-89.	0.7	11
81	Seismic Wave Propagation in Shallow Layers at the GONAF Uzla Site, Istanbul, Turkey. <i>Bulletin of the Seismological Society of America</i> , 2016, 106, 912-927.	1.1	11
82	Pressure-dependent bulk compressibility of a porous granular material modeled by improved contact mechanics and micromechanical approaches: Effects of surface roughness of grains. <i>Acta Materialia</i> , 2020, 188, 259-272.	3.8	11
83	Coseismic velocity change associated with the 2011 Van earthquake ($M > 7.1$): Crustal response to a major event. <i>Geophysical Research Letters</i> , 2014, 41, 4519-4526.	1.5	10
84	Shallow crustal discontinuities inferred from waveforms of microearthquakes: Method and application to KTB Drill Site and West Bohemia Swarm Area. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 881-902.	1.4	10
85	Sensitivity of Full Moment Tensors to Data Preprocessing and Inversion Parameters: A Case Study from the Salton Sea Geothermal Field. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 588-603.	1.1	9
86	Frequency-Dependent Moment Tensors of Induced Microearthquakes. <i>Geophysical Research Letters</i> , 2019, 46, 6406-6414.	1.5	9
87	Crustal Thickness Variation Across the Sea of Marmara Region, NW Turkey: A Reflection of Modern and Ancient Tectonic Processes. <i>Tectonics</i> , 2020, 39, e2019TC005986.	1.3	8
88	Near-Fault Monitoring Reveals Combined Seismic and Slow Activation of a Fault Branch within the Istanbul-Marmara Seismic Gap in Northwest Turkey. <i>Seismological Research Letters</i> , 2021, 92, 3743-3756.	0.8	8
89	Analysis of Microseismicity Framing $M_L > 2.5$ Earthquakes at The Geysers Geothermal Field, California. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 8823-8843.	1.4	6
90	Sensitivity and Stability Analysis of Coda Quality Factors at The Geysers Geothermal Field, California. <i>Bulletin of the Seismological Society of America</i> , 2019, 109, 959-975.	1.1	6

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91	Stress Inversion of Regional Seismicity in the Sea of Marmara Region, Turkey. Pure and Applied Geophysics, 2019, 176, 1269-1291.	0.8	6
92	Contemporary stress and strain field in the Mediterranean from stress inversion of focal mechanisms and GPS data. Tectonophysics, 2020, 774, 228286.	0.9	6
93	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
94	Does Deep Tectonic Tremor Occur in the Centralâ€œEastern Mediterranean Basin?. Journal of Geophysical Research: Solid Earth, 2021, 126, 2020JB020448.	1.4	4
95	Earthquake Source Mechanisms and Stress Field Variations Associated With Wastewaterâ€œInduced Seismicity in Southern Kansas, USA. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021625.	1.4	4
96	Induced earthquake potential in geothermal reservoirs: Insights from The Geysers, California. The Leading Edge, 2020, 39, 873-882.	0.4	4
97	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
98	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
99	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
100	Lithospheric strength variations and seismotectonic segmentation below the Sea of Marmara. Tectonophysics, 2021, 815, 228999.	0.9	2
101	Correction to â€œAnatomy of the Dead Sea Transform from lithospheric to microscopic scaleâ€œ. Reviews of Geophysics, 2010, 48, .	9.0	1
102	Future Challenges in Continental Scientific Drilling. Journal of the Geological Society of India, 2021, 97, 971-974.	0.5	1
103	Stress Tensor Changes Related to Fluid Injection at The Geysers Geothermal Field, California. , 2014, , .		0
104	Borehole Seismic Networks and Arrays. Encyclopedia of Earth Sciences Series, 2021, , 44-52.	0.1	0
105	Borehole Seismic Networks and Arrays. Encyclopedia of Earth Sciences Series, 2020, , 1-9.	0.1	0
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