

Friedemann Wenzel

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

3,629
citations

159358

30
h-index

138251

58
g-index

101
all docs

101
docs citations

101
times ranked

3085
citing authors

#	ARTICLE	IF	CITATIONS
1	The World Stress Map database release 2016: Crustal stress pattern across scales. <i>Tectonophysics</i> , 2018, 744, 484-498.	0.9	432
2	Direct mapping of seismic data to the domain of intercept time and ray parameter – A plane wave decomposition. <i>Geophysics</i> , 1981, 46, 255-267.	1.4	277
3	Seismogenic index and magnitude probability of earthquakes induced during reservoir fluid stimulations. <i>The Leading Edge</i> , 2010, 29, 304-309.	0.4	212
4	Plate boundary forces are not enough: Second- and third-order stress patterns highlighted in the World Stress Map database. <i>Tectonics</i> , 2007, 26, .	1.3	162
5	Slab break-off - abrupt cut or gradual detachment? New insights from the Vrancea Region (SE) Tj ETQq1 1 0.784314 rgBT / Overlock 107	0.9	150
6	High-resolution teleseismic body wave tomography beneath SE-Romania - II. Imaging of a slab detachment scenario. <i>Geophysical Journal International</i> , 2006, 164, 579-595.	1.0	141
7	Multi-hazard and multi-risk decision-support tools as a part of participatory risk governance: Feedback from civil protection stakeholders. <i>International Journal of Disaster Risk Reduction</i> , 2014, 8, 50-67.	1.8	123
8	P-wave mantle velocity structure beneath northern Eurasia from long-range recordings along the profile Quartz. <i>Physics of the Earth and Planetary Interiors</i> , 1993, 79, 269-286.	0.7	119
9	The CATDAT damaging earthquakes database. <i>Natural Hazards and Earth System Sciences</i> , 2011, 11, 2235-2251.	1.5	106
10	Framework for improving the resilience and recovery of transportation networks under geohazard risks. <i>International Journal of Disaster Risk Reduction</i> , 2018, 31, 832-843.	1.8	88
11	Crustal-scale structure of the southern Rhinegraben from ECORS-DEKORP seismic reflection data. <i>Geology</i> , 1991, 19, 758.	2.0	87
12	Understanding tectonic stress in the oil patch: The World Stress Map Project. <i>The Leading Edge</i> , 2005, 24, 1276-1282.	0.4	80
13	A deep reflection seismic line across the Northern Rhine Graben. <i>Earth and Planetary Science Letters</i> , 1991, 104, 140-150.	1.8	71
14	PreSEIS: A Neural Network-Based Approach to Earthquake Early Warning for Finite Faults. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 366-382.	1.1	71
15	Investigation of superstorm Sandy 2012 in a multi-disciplinary approach. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 2579-2598.	1.5	71
16	Integration of stress testing with graph theory to assess the resilience of urban road networks under seismic hazards. <i>Natural Hazards</i> , 2018, 91, 37-68.	1.6	69
17	S-Wave Attenuation Characteristics beneath the Vrancea Region in Romania: New Insights from the Inversion of Ground-Motion Spectra. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 2482-2497.	1.1	60
18	Megacities – megarisks. <i>Natural Hazards</i> , 2007, 42, 481-491.	1.6	56

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19	Uncertainty and Spatial Correlation of Earthquake Ground Motion in Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2010, 21, 905.	0.3	56
20	Source Spectra and Site Response from S Waves of Intermediate-Depth Vrancea, Romania, Earthquakes. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 235-254.	1.1	55
21	Losses Associated with Secondary Effects in Earthquakes. <i>Frontiers in Built Environment</i> , 2017, 3, .	1.2	53
22	Ground-motion prediction equations for the intermediate depth Vrancea (Romania) earthquakes. <i>Bulletin of Earthquake Engineering</i> , 2008, 6, 367-388.	2.3	45
23	Finite difference modelling of P-wave scattering in the upper mantle. <i>Geophysical Journal International</i> , 2000, 141, 787-800.	1.0	44
24	Probabilistic seismic hazard assessment for Romania and sensitivity analysis: A case of joint consideration of intermediate-depth (Vrancea) and shallow (crustal) seismicity. <i>Soil Dynamics and Earthquake Engineering</i> , 2009, 29, 364-381.	1.9	40
25	New constraints on the intraplate stress field of the Amurian plate deduced from light earthquake focal mechanisms. <i>Tectonophysics</i> , 2010, 482, 160-169.	0.9	39
26	Influence of spatial correlation of strong ground motion on uncertainty in earthquake loss estimation. <i>Earthquake Engineering and Structural Dynamics</i> , 2011, 40, 993-1009.	2.5	39
27	Lower crustal petrology from wide-angle P- and S-wave measurements in the Black Forest. <i>Tectonophysics</i> , 1990, 173, 495-505.	0.9	38
28	Influence of ground-motion correlation on probabilistic assessments of seismic hazard and loss: sensitivity analysis. <i>Bulletin of Earthquake Engineering</i> , 2011, 9, 1339-1360.	2.3	38
29	MAGNUS—A Seismological Broadband Experiment to Resolve Crustal and Upper Mantle Structure beneath the Southern Scandes Mountains in Norway. <i>Seismological Research Letters</i> , 2010, 81, 76-84.	0.8	37
30	Seismic results at Kola and KTB deep scientific boreholes: velocities, reflections, fluids, and crustal composition. <i>Tectonophysics</i> , 2000, 329, 301-317.	0.9	36
31	On the influence of site conditions and earthquake magnitude on ground-motion within-earthquake correlation: analysis of PGA data from TSMIP (Taiwan) network. <i>Bulletin of Earthquake Engineering</i> , 2012, 10, 1401-1429.	2.3	31
32	Accounting for site effect in probabilistic assessment of seismic hazard for Romania and Bucharest: a case of deep seismicity in Vrancea zone. <i>Soil Dynamics and Earthquake Engineering</i> , 2004, 24, 929-947.	1.9	30
33	Probability of earthquake occurrence and magnitude estimation in the post shut-in phase of geothermal projects. <i>Journal of Seismology</i> , 2013, 17, 5-11.	0.6	29
34	Interplay between tectonic, fluvial and erosional processes along the Western Border Fault of the northern Upper Rhine Graben, Germany. <i>Tectonophysics</i> , 2005, 406, 39-66.	0.9	28
35	Setting structural safety requirement for controlling earthquake mortality risk. <i>Safety Science</i> , 2016, 86, 174-183.	2.6	28
36	Prestack Kirchhoff depth migration of shallow seismic data. <i>Geophysics</i> , 1998, 63, 1241-1247.	1.4	27

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37	Source parameters of intermediate-depth Vrancea (Romania) earthquakes from empirical Green's functions modeling. <i>Tectonophysics</i> , 2007, 438, 33-56.	0.9	25
38	A spatial correlation model of peak ground acceleration and response spectra based on data of the Istanbul Earthquake Rapid Response and Early Warning System. <i>Soil Dynamics and Earthquake Engineering</i> , 2016, 85, 166-178.	1.9	24
39	The World Stress Map. <i>Episodes</i> , 2007, 30, 197-201.	0.8	24
40	Evaluation and optimization of seismic networks and algorithms for earthquake early warning – the case of Istanbul (Turkey). <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	22
41	Further analysis of the influence of site conditions and earthquake magnitude on ground-motion within-earthquake correlation: analysis of PGA and PGV data from the K-NET and the KiK-net (Japan) networks. <i>Bulletin of Earthquake Engineering</i> , 2013, 11, 1909-1926.	2.3	21
42	Empirical Assessment of Non-Linear Seismic Demand of Mainshock-AfterShock Ground-Motion Sequences for Japanese Earthquakes. <i>Frontiers in Built Environment</i> , 2015, 1, .	1.2	20
43	Analysis of Taipei Basin Response for Earthquakes of Various Depths and Locations Using Empirical Data. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2009, 20, 687.	0.3	19
44	On the nature of Pn. <i>Journal of Geophysical Research</i> , 2000, 105, 16173-16180.	3.3	18
45	Simulating three-dimensional seismograms in 2.5-dimensional structures by combining two-dimensional finite difference modelling and ray tracing. <i>Geophysical Journal International</i> , 2008, 174, 309-315.	1.0	18
46	Broadband Urban Seismology in the Bucharest Metropolitan Area. <i>Seismological Research Letters</i> , 2005, 76, 574-580.	0.8	16
47	Global Megathrust Earthquake Hazard – Maximum Magnitude Assessment Using Multi-Variate Machine Learning. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	16
48	Potential of Earthquake Early Warning Systems. <i>Natural Hazards</i> , 2001, 23, 407-416.	1.6	15
49	Gravity and magnetic constraints on deep and intermediate crustal structure and evolution models for the Rhine Graben. <i>Tectonophysics</i> , 1992, 206, 113-135.	0.9	14
50	Rapid Source Parameter Estimations of Southern California Earthquakes Using PreSEIS. <i>Seismological Research Letters</i> , 2009, 80, 748-754.	0.8	14
51	Geophysical evidence for fluids in the crust beneath the Black Forest, SW Germany. <i>Earth-Science Reviews</i> , 1992, 32, 61-75.	4.0	13
52	On the use of JMA intensity in earthquake early warning systems. <i>Bulletin of Earthquake Engineering</i> , 2010, 8, 767-786.	2.3	13
53	A universal approach for evaluating earthquake safety level based on societal fatality risk. <i>Bulletin of Earthquake Engineering</i> , 2020, 18, 273-296.	2.3	13
54	Wave propagation in laterally heterogeneous layered media. <i>Geophysical Journal International</i> , 1990, 103, 675-684.	1.0	12

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55	Simulation of earthquakes in the Upper Rhinegraben using empirical Green functions. <i>Geophysical Journal International</i> , 2002, 151, 487-500.	1.0	12
56	t^* -an unsuitable parameter to characterize anelastic attenuation in the Eastern Carpathians. <i>Geophysical Journal International</i> , 2007, 170, 1139-1150.	1.0	11
57	Shake Map Methodology for Intermediate-Depth Vrancea (Romania) Earthquakes. <i>Earthquake Spectra</i> , 2009, 25, 497-514.	1.6	11
58	Global Significance of a Sub-Moho Boundary Layer (SMBL) Deduced from High-Resolution Seismic Observations. <i>International Geology Review</i> , 2002, 44, 671-685.	1.1	10
59	Parameterization of a Composite Attenuation Relation for the Dead Sea Area Based on 3-D Modeling of Elastic Wave Propagation. <i>Pure and Applied Geophysics</i> , 2007, 164, 23-37.	0.8	10
60	Loss of residential buildings in the event of a re-awakening of the Laacher See Volcano (Germany). <i>Journal of Volcanology and Geothermal Research</i> , 2017, 337, 111-123.	0.8	10
61	On the relation between point-wise and multiple-location probabilistic seismic hazard assessments. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 1281-1301.	2.3	9
62	Analysis of the similar epicenter earthquakes on 22 January 2013 and 01 June 2013, Central Gulf of Suez, Egypt. <i>Journal of African Earth Sciences</i> , 2016, 121, 274-285.	0.9	9
63	TsuPy: Computational robustness in Tsunami hazard modelling. <i>Computers and Geosciences</i> , 2017, 102, 148-157.	2.0	9
64	Fluid-induced seismicity: comparison of rate- and state- and critical pressure theory. <i>Geothermal Energy</i> , 2017, 5, .	0.9	9
65	A semi-probabilistic procedure for developing societal risk function. <i>Natural Hazards</i> , 2018, 92, 943-969.	1.6	9
66	Earthquake modeling in the Dead Sea Basin. <i>Geophysical Research Letters</i> , 2002, 29, 8-1.	1.5	8
67	Numerical modelling of ground motion in the Taipei Basin: basin and source effects. <i>Geophysical Journal International</i> , 2010, 183, 1633-1647.	1.0	8
68	Near-Real-Time Analysis of Publicly Communicated Disaster Response Information. <i>International Journal of Disaster Risk Science</i> , 2014, 5, 165-175.	1.3	8
69	Review article: Review of fragility analyses for major building types in China with new implications for intensity-“PGA relation development. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 643-672.	1.5	8
70	Urban shakemap methodology for Bucharest. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	7
71	Simulating the Taipei basin response by numerical modeling of wave propagation. <i>Bulletin of Earthquake Engineering</i> , 2010, 8, 847-858.	2.3	7
72	Earthquake early warning for transport lines. <i>Natural Hazards</i> , 2014, 70, 1795-1825.	1.6	7

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73	Validation of strong-motion stochastic model using observed ground motion records in north-east India. <i>Geomatics, Natural Hazards and Risk</i> , 2016, 7, 565-585.	2.0	7
74	Engineering-Seismological Analysis of Site Effects in the Area of Cologne. <i>Natural Hazards</i> , 2006, 38, 199-214.	1.6	6
75	On estimation of earthquake magnitude in Earthquake EarlyWarning systems. <i>Earth, Planets and Space</i> , 2009, 61, 1275-1285.	0.9	6
76	Residential building stock modelling for mainland China targeted for seismic risk assessment. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 3031-3056.	1.5	6
77	Reflectivity method for dipping layers. <i>Journal of Geophysical Research</i> , 1988, 93, 15046-15056.	3.3	5
78	Earthquake risk reduction “ obstacles and opportunities. <i>European Review</i> , 2006, 14, 221-231.	0.4	5
79	The smart cluster method. <i>Journal of Seismology</i> , 2017, 21, 965-985.	0.6	5
80	Development of thermo-reporting nanoparticles for accurate sensing of geothermal reservoir conditions. <i>Scientific Reports</i> , 2020, 10, 11422.	1.6	5
81	Areal exceedance of ground motion as a characteristic of multiple-site seismic hazard: Sensitivity analysis. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 126, 105770.	1.9	4
82	Low Free-Field Accelerations of the 1999 Kocaeli Earthquake?. <i>Pure and Applied Geophysics</i> , 2005, 162, 857-874.	0.8	3
83	On the modeling of ground-motion field for assessment of multiple-location hazard, damage, and loss: example of estimation of electric network performance during scenario earthquake. <i>Natural Hazards</i> , 2014, 74, 1555-1575.	1.6	3
84	Induced Seismicity Using Dieterich's Rate and State Theory and Comparison to the Critical Pressure Theory. <i>Energy Procedia</i> , 2015, 76, 282-290.	1.8	3
85	Kirchhoff diffraction mapping in media with large velocity contrasts. <i>Geophysics</i> , 1998, 63, 2072-2081.	1.4	3
86	Rapid Earthquake Information for Bucharest. <i>Pure and Applied Geophysics</i> , 2007, 164, 929-939.	0.8	2
87	A New CMP Stack Concept Based on the Born Approximation. <i>Exploration Geophysics</i> , 1991, 22, 439-441.	0.5	1
88	Elastic Properties of Crust and Upper Mantle “ A New View. , 2020, , 31-43.		1
89	Deep Seismic Reflection Lines Across the Rhine Graben. <i>Exploration Geophysics</i> , 1991, 22, 443-446.	0.5	0
90	VSP Over Deep Coal Using Vibrator and Explosive. <i>Exploration Geophysics</i> , 1992, 23, 327-331.	0.5	0

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91	Seismic Tomography for Field VSP Surveys in an Inhomogeneous and Anisotropic Medium. Exploration Geophysics, 1993, 24, 864-872.	0.5	0
92	A Cross-Gallery Tomographic Survey in the New England Antimony Mine (Hillgrove, N.S.W.): A Case Study in a Hard Rock Environment. Exploration Geophysics, 1994, 25, 197-205.	0.5	0
93	Reply to "Discussion of "Areal exceedance of ground motion as a characteristics of multiple-site seismic hazard: Sensitivity analysis" by V. Sokolov, F. Wenzel" by M. Giorgio and I. Iervolino. Soil Dynamics and Earthquake Engineering, 2020, 128, 105861.	1.9	0