

William R Walter

List of Publications by Year in descending order

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92
papers

3,137
citations

185998

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182168

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95
all docs

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docs citations

95
times ranked

1593
citing authors

#	ARTICLE	IF	CITATIONS
1	A Big Problem for Small Earthquakes: Benchmarking Routine Magnitudes and Conversion Relationships with Coda Envelope-Derived Mw in Southern Kansas and Northern Oklahoma. Bulletin of the Seismological Society of America, 2022, 112, 210-225.	1.1	10
2	Combining Deep Learning With Physics Based Features in Explosionâ€Earthquake Discrimination. Geophysical Research Letters, 2022, 49, .	1.5	19
3	Toward Robust and Routine Determination of Mw for Small Earthquakes: Application to the 2020 Mw5.7 Magna, Utah, Seismic Sequence. Seismological Research Letters, 2021, 92, 725-740.	0.8	8
4	Source Separation and Medium Change of Contained Chemical Explosions from Coda Wave Interferometry. The Seismic Record, 2021, 1, 3-10.	1.3	1
5	Preliminary Analysis of Source Physics Experiment Explosionâ€Triggered Microseismicity Using the Backâ€Projection Method. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021312.	1.4	3
6	Finding, Organizing, and Preserving Legacy Nuclear Test Monitoring Dataâ€Examples from the Livermore Nevada Network. Seismological Research Letters, 2020, 91, 1413-1416.	0.8	3
7	Rescuing Legacy Seismic Data FAIRâ€TMly. Seismological Research Letters, 2020, 91, 1339-1340.	0.8	9
8	New Opportunities to Study Earthquake Precursors. Seismological Research Letters, 2020, 91, 2444-2447.	0.8	27
9	Investigating the Effectiveness of P/S Amplitude Ratios for Local Distance Event Discrimination. Bulletin of the Seismological Society of America, 2019, 109, .	1.1	23
10	Evaluation of earthquake stress parameters and its scaling during the 2016-2017 Amatrice-Norcia-Visso sequenceâ€Part I. Geophysical Journal International, 2019, 218, 446-455.	1.0	9
11	Preface to the Focus Section on North Koreaâ€TM's September 2017 Nuclear Test and Its Aftermath. Seismological Research Letters, 2018, 89, 2013-2016.	0.8	8
12	The Source Physics Experiments Large N Array. Seismological Research Letters, 2018, 89, 1618-1628.	0.8	21
13	Earthquake stress via event ratio levels: Application to the 2011 and 2016 Oklahoma seismic sequences. Geophysical Research Letters, 2017, 44, 3147-3155.	1.5	21
14	Relative surface wave amplitude and phase anomalies from the Democratic People's Republic of Korea announced nuclear tests. Geophysical Research Letters, 2017, 44, 8857-8864.	1.5	10
15	Highâ€Resolution 2D Lg and Pg Attenuation Models in the Basin and Range Region with Implications for Frequencyâ€Dependent Q. Bulletin of the Seismological Society of America, 2017, 107, 2846-2858.	1.1	8
16	Moment Magnitudes of Local/Regional Events from 1D Coda Calibrations in the Broader Middle East Region. Bulletin of the Seismological Society of America, 2016, 106, 1926-1938.	1.1	15
17	Moment Tensor Analysis of Very Shallow Sources. Bulletin of the Seismological Society of America, 2016, 106, 2436-2449.	1.1	17
18	2D Variations in Coda Amplitudes in the Middle East. Bulletin of the Seismological Society of America, 2016, 106, 1915-1925.	1.1	4

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19	International Monitoring System Correlation Detection at the North Korean Nuclear Test Site at Punggye-ri with Insights from the Source Physics Experiment. <i>Seismological Research Letters</i> , 2015, 86, 1160-1170.	0.8	13
20	Analysis of Ground Motion from An Underground Chemical Explosion. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 2390-2410.	1.1	30
21	Initial Global Seismic Cross-Correlation Results: Implications for Empirical Signal Detectors. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 240-256.	1.1	24
22	Accurate Local Event Locations in Rock Valley, Nevada, Using a Bayesian Multiple-Event Method. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 706-718.	1.1	6
23	Source Characterization of Underground Explosions from Combined Regional Moment Tensor and First-Motion Analysis. <i>Bulletin of the Seismological Society of America</i> , 2014, 104, 1587-1600.	1.1	22
24	Testing Event Discrimination over Broad Regions using the Historical Borovoye Observatory Explosion Dataset. <i>Pure and Applied Geophysics</i> , 2014, 171, 523-535.	0.8	8
25	mb:Ms Screening Revisited for Large Events. <i>Bulletin of the Seismological Society of America</i> , 2014, 104, 1550-1555.	1.1	6
26	Large-scale seismic signal analysis with Hadoop. <i>Computers and Geosciences</i> , 2014, 66, 145-154.	2.0	47
27	An Explosion Model Comparison with Insights from the Source Physics Experiments. <i>Bulletin of the Seismological Society of America</i> , 2013, 103, 2937-2945.	1.1	24
28	Chemical Explosion Experiments to Improve Nuclear Test Monitoring. <i>Eos</i> , 2013, 94, 237-239.	0.1	77
29	Exploiting Regional Amplitude Envelopes: A Case Study for Earthquakes and Explosions in the Korean Peninsula. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 1938-1948.	1.1	16
30	Event Discrimination using Regional Moment Tensors with Teleseismic-P Constraints. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 867-872.	1.1	23
31	Attenuation Tomography of the Yellow Sea/Korean Peninsula from Coda-source normalized and direct Lg Amplitudes. <i>Pure and Applied Geophysics</i> , 2010, 167, 1163-1170.	0.8	16
32	Seismic event identification. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2010, 2, 414-432.	2.1	10
33	Aftershock Characteristics as a Means of Discriminating Explosions from Earthquakes. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 364-376.	1.1	18
34	Network Sensitivity Solutions for Regional Moment-Tensor Inversions. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 1962-1970.	1.1	55
35	A WADATI FILTER FOR MINE-INDUCED SEISMICITY. <i>South African Journal of Geology</i> , 2009, 112, 371-380.	0.6	4
36	The Prospect of Using Three-Dimensional Earth Models to Improve Nuclear Explosion Monitoring and Ground-motion Hazard Assessment. <i>Seismological Research Letters</i> , 2009, 80, 31-39.	0.8	4

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37	Broad-band <i>Lg</i> attenuation modelling in the Middle East. <i>Geophysical Journal International</i> , 2009, 177, 1166-1176.	1.0	67
38	Source analysis of the Memorial Day explosion, Kimchaek, North Korea. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	53
39	Improvements to regional explosion identification using attenuation models of the lithosphere. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	20
40	Source Mechanisms of Mine-Related Seismicity, Savuka Mine, South Africa. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 2801-2814.	1.1	31
41	Identifying isotropic events using a regional moment tensor inversion. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	98
42	Regional Multistation Discriminants: Magnitude, Distance, and Amplitude Corrections, and Sources of Error. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 794-808.	1.1	18
43	<i>Lg</i> -Coda Methods Applied to Nevada Test Site Events: Spectral Peaking and Yield Estimation. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 441-448.	1.1	13
44	A Simultaneous Multiphase Approach to Determine P-Wave and S-Wave Attenuation of the Crust and Upper Mantle. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 3314-3325.	1.1	41
45	Source Characterization of the 6 August 2007 Crandall Canyon Mine Seismic Event in Central Utah. <i>Seismological Research Letters</i> , 2008, 79, 637-644.	0.8	33
46	Source Analysis of the Crandall Canyon, Utah, Mine Collapse. <i>Science</i> , 2008, 321, 217-217.	6.0	30
47	Regional Attenuation in Northern California: A Comparison of Five 1D Q Methods. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 2033-2046.	1.1	39
48	Regional body-wave attenuation using a coda source normalization method: Application to MEDNET records of earthquakes in Italy. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	11
49	A new spectral ratio method using narrow band coda envelopes: Evidence for non-self-similarity in the Hector Mine sequence. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	114
50	The scaling of seismic energy with moment: Simple models compared with observations. <i>Geophysical Monograph Series</i> , 2006, , 25-41.	0.1	29
51	A multistep approach for joint modeling of surface wave dispersion and teleseismic receiver functions: Implications for lithospheric structure of the Arabian Peninsula. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	84
52	Evidence for non-constant energy/moment scaling from coda-derived source spectra. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	72
53	2-D or not 2-D, that is the question: A northern California test. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	18
54	Coda-derived source spectra, moment magnitudes and energy-moment scaling in the western Alps. <i>Geophysical Journal International</i> , 2004, 160, 263-275.	1.0	31

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55	Building and Testing an a priori Geophysical Model for Western Eurasia and North Africa. Pure and Applied Geophysics, 2004, 161, 235-281.	0.8	35
56	Time-domain Pure-state Polarization Analysis of Surface Waves Traversing California. Pure and Applied Geophysics, 2003, 160, 1447-1478.	0.8	8
57	New signatures of underground nuclear tests revealed by satellite radar interferometry. Geophysical Research Letters, 2003, 30, .	1.5	24
58	Stable and Transportable Regional Magnitudes Based on Coda-Derived Moment-Rate Spectra. Bulletin of the Seismological Society of America, 2003, 93, 224-239.	1.1	107
59	Source Effects on Regional Seismic Discriminant Measurements. Bulletin of the Seismological Society of America, 2002, 92, 2926-2945.	1.1	8
60	Amplitude Corrections for Regional Seismic Discriminants. Pure and Applied Geophysics, 2002, 159, 623-650.	0.8	38
61	Seismic Discrimination of the May 11, 1998 Indian Nuclear Test with Short-period Regional Data from Station NIL (Nilore, Pakistan). Pure and Applied Geophysics, 2002, 159, 679-700.	0.8	21
62	Discriminating Between Large Mine Collapses and Explosions Using Teleseismic P Waves. Pure and Applied Geophysics, 2002, 159, 803-830.	0.8	16
63	Crust and upper-mantle structure of North Africa, Europe and the Middle East from inversion of surface waves. Geophysical Journal International, 2002, 149, 463-481.	1.0	61
64	Discriminating Between Large Mine Collapses and Explosions Using Teleseismic P Waves. , 2002, , 803-830.		1
65	Seismic Discrimination of the May 11, 1998 Indian Nuclear Test with Short-period Regional Data from Station NIL (Nilore, Pakistan). , 2002, , 679-700.		1
66	Mapping Crustal Heterogeneity Using Lg Propagation Efficiency Throughout the Middle East, Mediterranean, Southern Europe and Northern Africa. , 2001, 158, 1165-1188.		23
67	A Surface Wave Dispersion Study of the Middle East and North Africa for Monitoring the Comprehensive Nuclear-Test-Ban Treaty. , 2001, 158, 1445-1474.		36
68	One-dimensional Shear Velocity Structure of Northern Africa from Rayleigh Wave Group Velocity Dispersion. , 2001, 158, 1475-1493.		11
69	A Surface Wave Dispersion Study of the Middle East and North Africa for Monitoring the Comprehensive Nuclear-Test-Ban Treaty. , 2001, , 1445-1474.		13
70	One-dimensional Shear Velocity Structure of Northern Africa from Rayleigh Wave Group Velocity Dispersion. , 2001, , 1475-1493.		1
71	Mapping Crustal Heterogeneity Using Lg Propagation Efficiency Throughout the Middle East, Mediterranean, Southern Europe and Northern Africa. , 2001, , 1165-1188.		0
72	Lithospheric structure of the Arabian Shield and Platform from complete regional waveform modelling and surface wave group velocities. Geophysical Journal International, 1999, 138, 871-878.	1.0	98

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73	Observations in support of <i>Rg</i> scattering as a source for explosion <i>S</i> waves: Regional and local recordings of the 1997 Kazakhstan depth of burial experiment. Bulletin of the Seismological Society of America, 1999, 89, 544-549.	1.1	58
74	Upper mantle velocity structure beneath the Tibetan Plateau from Pn travel time tomography. Journal of Geophysical Research, 1997, 102, 493-505.	3.3	173
75	Moment, energy, stress drop, and source spectra of western United States earthquakes from regional coda envelopes. Journal of Geophysical Research, 1996, 101, 11195-11208.	3.3	284
76	Propagation characteristics of <i>Lg</i> across the Tibetan Plateau. Bulletin of the Seismological Society of America, 1996, 86, 457-469.	1.1	115
77	Variation of regional seismic discriminants with surface topographic roughness in the Western United States. Bulletin of the Seismological Society of America, 1996, 86, 714-725.	1.1	15
78	The February 3, 1995, ML 5.1 Seismic Event in the Trona Mining District of Southwestern Wyoming. Seismological Research Letters, 1995, 66, 25-34.	0.8	49
79	Observations of regional phase propagation across the Tibetan Plateau. Journal of Geophysical Research, 1995, 100, 22215-22229.	3.3	138
80	Correction to "Regional moment: Magnitude relations for earthquakes and explosions". Geophysical Research Letters, 1994, 21, 743-743.	1.5	9
81	Source parameters of the June 29, 1992 Little Skull Mountain Earthquake from complete regional waveforms at a single station. Geophysical Research Letters, 1993, 20, 403-406.	1.5	70
82	Spectra of seismic radiation from a tensile crack. Journal of Geophysical Research, 1993, 98, 4449-4459.	3.3	70
83	Regional moment:magnitude relations for earthquakes and explosions. Geophysical Research Letters, 1993, 20, 277-280.	1.5	34
84	Upper mantle structure beneath central Eurasia using a source array of nuclear explosions and waveforms at regional distances. Journal of Geophysical Research, 1992, 97, 14097-14113.	3.3	26
85	High-frequency P wave spectra from explosions and earthquakes. Geophysical Monograph Series, 1991, , 219-228.	0.1	12
86	Regional seismic recordings of the Soviet nuclear explosion of the Joint Verification Experiment. Geophysical Research Letters, 1990, 17, 179-182.	1.5	14
87	Tectonic release from the Soviet Joint Verification Experiment. Geophysical Research Letters, 1990, 17, 1517-1520.	1.5	16
88	Observations of high-frequency <i>P</i> wave earthquake and explosion spectra compared with γ^3 , γ^2 , and sharp source models. Journal of Geophysical Research, 1988, 93, 6318-6324.	3.3	17
89	A New U.S.-U.S.S.R. Seismological Program. Eos, 1987, 68, 105-111.	0.1	6
90	Moment Tensor Source Type Analysis for the Democratic People's Republic of Korea's "Declared Nuclear Explosions (2006-2017) and 3 September 2017 Collapse Event. Seismological Research Letters, 0, , .	0.8	21

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91	Body-Wave Methods of Distinguishing between Explosions, Collapses, and Earthquakes: Application to Recent Events in North Korea. <i>Seismological Research Letters</i> , 0, , .	0.8	19
92	Exploring the Effects of Emplacement Conditions on Explosion P/S Ratios across Local to Regional Distances. <i>Seismological Research Letters</i> , 0, , .	0.8	6