

# William R Walter

## List of Publications by Year in descending order

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92  
papers

3,137  
citations

185998

28  
h-index

182168

51  
g-index

95  
all docs

95  
docs citations

95  
times ranked

1593  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Moment, energy, stress drop, and source spectra of western United States earthquakes from regional coda envelopes. <i>Journal of Geophysical Research</i> , 1996, 101, 11195-11208.   | 3.3 | 284       |
| 2  | Upper mantle velocity structure beneath the Tibetan Plateau from Pn travel time tomography. <i>Journal of Geophysical Research</i> , 1997, 102, 493-505.  | 3.3 | 173       |
| 3  | Observations of regional phase propagation across the Tibetan Plateau. <i>Journal of Geophysical Research</i> , 1995, 100, 22215-22229.   | 3.3 | 138       |
| 4  | Propagation characteristics of <i>Lg</i> across the Tibetan Plateau. <i>Bulletin of the Seismological Society of America</i> , 1996, 86, 457-469.   | 1.1 | 115       |
| 5  | 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       |
| 6  | Stable and Transportable Regional Magnitudes Based on Coda-Derived Moment-Rate Spectra. <i>Bulletin of the Seismological Society of America</i> , 2003, 93, 224-239.  | 1.1 | 107       |
| 7  | Lithospheric structure of the Arabian Shield and Platform from complete regional waveform modelling and surface wave group velocities. <i>Geophysical Journal International</i> , 1999, 138, 871-878.   | 1.0 | 98        |
| 8  | Identifying isotropic events using a regional moment tensor inversion. <i>Journal of Geophysical Research</i> , 2009, 114, .  | 3.3 | 98        |
| 9  | 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        |
| 10 | Chemical Explosion Experiments to Improve Nuclear Test Monitoring. <i>Eos</i> , 2013, 94, 237-239.  | 0.1 | 77        |
| 11 | Evidence for non-constant energy/moment scaling from coda-derived source spectra. <i>Geophysical Research Letters</i> , 2005, 32, .   | 1.5 | 72        |
| 12 | Source parameters of the June 29, 1992 Little Skull Mountain Earthquake from complete regional waveforms at a single station. <i>Geophysical Research Letters</i> , 1993, 20, 403-406.  | 1.5 | 70        |
| 13 | Spectra of seismic radiation from a tensile crack. <i>Journal of Geophysical Research</i> , 1993, 98, 4449-4459.  | 3.3 | 70        |
| 14 | Broad-band <i>Lg</i> attenuation modelling in the Middle East. <i>Geophysical Journal International</i> , 2009, 177, 1166-1176.   | 1.0 | 67        |
| 15 | Crust and upper-mantle structure of North Africa, Europe and the Middle East from inversion of surface waves. <i>Geophysical Journal International</i> , 2002, 149, 463-481.  | 1.0 | 61        |
| 16 | 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. <i>Bulletin of the Seismological Society of America</i> , 1999, 89, 544-549. | 1.1 | 58        |
| 17 | Network Sensitivity Solutions for Regional Moment-Tensor Inversions. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 1962-1970.  | 1.1 | 55        |
| 18 | Source analysis of the Memorial Day explosion, Kimchaek, North Korea. <i>Geophysical Research Letters</i> , 2009, 36, .   | 1.5 | 53        |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | Large-scale seismic signal analysis with Hadoop. Computers and Geosciences, 2014, 66, 145-154.   | 2.0 | 47        |
| 21 | A Simultaneous Multiphase Approach to Determine P-Wave and S-Wave Attenuation of the Crust and Upper Mantle. Bulletin of the Seismological Society of America, 2009, 99, 3314-3325.    | 1.1 | 41        |
| 22 | Regional Attenuation in Northern California: A Comparison of Five 1D Q Methods. Bulletin of the Seismological Society of America, 2008, 98, 2033-2046.                                 | 1.1 | 39        |
| 23 | Amplitude Corrections for Regional Seismic Discriminants. Pure and Applied Geophysics, 2002, 159, 623-650.   | 0.8 | 38        |
| 24 | 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        |
| 25 | 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        |
| 26 | Regional moment:magnitude relations for earthquakes and explosions. Geophysical Research Letters, 1993, 20, 277-280.   | 1.5 | 34        |
| 27 | Source Characterization of the 6 August 2007 Crandall Canyon Mine Seismic Event in Central Utah. Seismological Research Letters, 2008, 79, 637-644.                                    | 0.8 | 33        |
| 28 | Coda-derived source spectra, moment magnitudes and energy-moment scaling in the western Alps. Geophysical Journal International, 2004, 160, 263-275.                                   | 1.0 | 31        |
| 29 | Source Mechanisms of Mine-Related Seismicity, Savuka Mine, South Africa. Bulletin of the Seismological Society of America, 2009, 99, 2801-2814.  | 1.1 | 31        |
| 30 | Source Analysis of the Crandall Canyon, Utah, Mine Collapse. Science, 2008, 321, 217-217.  | 6.0 | 30        |
| 31 | Analysis of Ground Motion from An Underground Chemical Explosion. Bulletin of the Seismological Society of America, 2015, 105, 2390-2410.  | 1.1 | 30        |
| 32 | The scaling of seismic energy with moment: Simple models compared with observations. Geophysical Monograph Series, 2006, , 25-41.  | 0.1 | 29        |
| 33 | New Opportunities to Study Earthquake Precursors. Seismological Research Letters, 2020, 91, 2444-2447.   | 0.8 | 27        |
| 34 | 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        |
| 35 | New signatures of underground nuclear tests revealed by satellite radar interferometry. Geophysical Research Letters, 2003, 30, .  | 1.5 | 24        |
| 36 | An Explosion Model Comparison with Insights from the Source Physics Experiments. Bulletin of the Seismological Society of America, 2013, 103, 2937-2945.                               | 1.1 | 24        |

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|----|--|-----|-----------|
| 37 | Initial Global Seismic Cross-Correlation Results: Implications for Empirical Signal Detectors. Bulletin of the Seismological Society of America, 2015, 105, 240-256.                                   | 1.1 | 24        |
| 38 | Mapping Crustal Heterogeneity Using Lg Propagation Efficiency Throughout the Middle East, Mediterranean, Southern Europe and Northern Africa. , 2001, 158, 1165-1188.                                  |     | 23        |
| 39 | Event Discrimination using Regional Moment Tensors with Teleseismic-P Constraints. Bulletin of the Seismological Society of America, 2012, 102, 867-872.   | 1.1 | 23        |
| 40 | 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        |
| 41 | Source Characterization of Underground Explosions from Combined Regional Moment Tensor and First-Motion Analysis. Bulletin of the Seismological Society of America, 2014, 104, 1587-1600.              | 1.1 | 22        |
| 42 | 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        |
| 43 | 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        |
| 44 | 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        |
| 45 | The Source Physics Experiments Large N Array. Seismological Research Letters, 2018, 89, 1618-1628.   | 0.8 | 21        |
| 46 | Improvements to regional explosion identification using attenuation models of the lithosphere. Geophysical Research Letters, 2009, 36, .   | 1.5 | 20        |
| 47 | Body-Wave Methods of Distinguishing between Explosions, Collapses, and Earthquakes: Application to Recent Events in North Korea. Seismological Research Letters, 0, , .                                | 0.8 | 19        |
| 48 | Combining Deep Learning With Physics Based Features in Explosion-Earthquake Discrimination. Geophysical Research Letters, 2022, 49, .  | 1.5 | 19        |
| 49 | 2-D or not 2-D, that is the question: A northern California test. Geophysical Research Letters, 2005, 32, n/a-n/a.   | 1.5 | 18        |
| 50 | Regional Multistation Discriminants: Magnitude, Distance, and Amplitude Corrections, and Sources of Error. Bulletin of the Seismological Society of America, 2009, 99, 794-808.                        | 1.1 | 18        |
| 51 | Aftershock Characteristics as a Means of Discriminating Explosions from Earthquakes. Bulletin of the Seismological Society of America, 2010, 100, 364-376.   | 1.1 | 18        |
| 52 | Observations of high-frequency $P$ wave earthquake and explosion spectra compared with $\gamma^3$ , $\gamma^2$ , and sharp source models. Journal of Geophysical Research, 1988, 93, 6318-6324.        | 3.3 | 17        |
| 53 | Moment Tensor Analysis of Very Shallow Sources. Bulletin of the Seismological Society of America, 2016, 106, 2436-2449.  | 1.1 | 17        |
| 54 | Tectonic release from the Soviet Joint Verification Experiment. Geophysical Research Letters, 1990, 17, 1517-1520.   | 1.5 | 16        |

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|----|---|-----|-----------|
| 55 | Discriminating Between Large Mine Collapses and Explosions Using Teleseismic P Waves. Pure and Applied Geophysics, 2002, 159, 803-830.  | 0.8 | 16        |
| 56 | Attenuation Tomography of the Yellow Sea/Korean Peninsula from Coda-source normalized and direct Lg Amplitudes. Pure and Applied Geophysics, 2010, 167, 1163-1170.  | 0.8 | 16        |
| 57 | Exploiting Regional Amplitude Envelopes: A Case Study for Earthquakes and Explosions in the Korean Peninsula. Bulletin of the Seismological Society of America, 2012, 102, 1938-1948.   | 1.1 | 16        |
| 58 | 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        |
| 59 | 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        |
| 60 | Regional seismic recordings of the Soviet nuclear explosion of the Joint Verification Experiment. Geophysical Research Letters, 1990, 17, 179-182.  | 1.5 | 14        |
| 61 | Lg-Coda Methods Applied to Nevada Test Site Events: Spectral Peaking and Yield Estimation. Bulletin of the Seismological Society of America, 2009, 99, 441-448.   | 1.1 | 13        |
| 62 | International Monitoring System Correlation Detection at the North Korean Nuclear Test Site at Punggye-ri with Insights from the Source Physics Experiment. Seismological Research Letters, 2015, 86, 1160-1170.                                | 0.8 | 13        |
| 63 | A Surface Wave Dispersion Study of the Middle East and North Africa for Monitoring the Comprehensive Nuclear-Test-Ban Treaty. , 2001, , 1445-1474.  |     | 13        |
| 64 | High-frequency P wave spectra from explosions and earthquakes. Geophysical Monograph Series, 1991, , 219-228.   | 0.1 | 12        |
| 65 | One-dimensional Shear Velocity Structure of Northern Africa from Rayleigh Wave Group Velocity Dispersion. , 2001, 158, 1475-1493.   |     | 11        |
| 66 | Regional body-wave attenuation using a coda source normalization method: Application to MEDNET records of earthquakes in Italy. Geophysical Research Letters, 2007, 34, .   | 1.5 | 11        |
| 67 | Seismic event identification. Wiley Interdisciplinary Reviews: Computational Statistics, 2010, 2, 414-432.  | 2.1 | 10        |
| 68 | 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        |
| 69 | 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        |
| 70 | Correction to "Regional moment: Magnitude relations for earthquakes and explosions". Geophysical Research Letters, 1994, 21, 743-743.   | 1.5 | 9         |
| 71 | Evaluation of earthquake stress parameters and its scaling during the 2016-2017 Amatrice-Norcia-Visso sequence"Part I. Geophysical Journal International, 2019, 218, 446-455.   | 1.0 | 9         |
| 72 | Rescuing Legacy Seismic Data FAIRly. Seismological Research Letters, 2020, 91, 1339-1340.   | 0.8 | 9         |

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| 73 | Source Effects on Regional Seismic Discriminant Measurements. Bulletin of the Seismological Society of America, 2002, 92, 2926-2945.   | 1.1 | 8         |
| 74 | Time-domain Pure-state Polarization Analysis of Surface Waves Traversing California. Pure and Applied Geophysics, 2003, 160, 1447-1478.  | 0.8 | 8         |
| 75 | Testing Event Discrimination over Broad Regions using the Historical Borovoye Observatory Explosion Dataset. Pure and Applied Geophysics, 2014, 171, 523-535.                                      | 0.8 | 8         |
| 76 | High-Resolution 2D Lg and Pg Attenuation Models in the Basin and Range Region with Implications for Frequency-Dependent Q. Bulletin of the Seismological Society of America, 2017, 107, 2846-2858. | 1.1 | 8         |
| 77 | Preface to the Focus Section on North Korea's September 2017 Nuclear Test and Its Aftermath. Seismological Research Letters, 2018, 89, 2013-2016.  | 0.8 | 8         |
| 78 | Toward Robust and Routine Determination of Mw for Small Earthquakes: Application to the 2020 Mw 5.7 Magna, Utah, Seismic Sequence. Seismological Research Letters, 2021, 92, 725-740.              | 0.8 | 8         |
| 79 | A New U.S.-U.S.S.R. Seismological Program. Eos, 1987, 68, 105-111.   | 0.1 | 6         |
| 80 | mb:Ms Screening Revisited for Large Events. Bulletin of the Seismological Society of America, 2014, 104, 1550-1555.  | 1.1 | 6         |
| 81 | Accurate Local Event Locations in Rock Valley, Nevada, Using a Bayesian Multiple-Event Method. Bulletin of the Seismological Society of America, 2015, 105, 706-718.                               | 1.1 | 6         |
| 82 | Exploring the Effects of Emplacement Conditions on Explosion P/S Ratios across Local to Regional Distances. Seismological Research Letters, 0, , .   | 0.8 | 6         |
| 83 | A WADATI FILTER FOR MINE-INDUCED SEISMICITY. South African Journal of Geology, 2009, 112, 371-380.   | 0.6 | 4         |
| 84 | The Prospect of Using Three-Dimensional Earth Models to Improve Nuclear Explosion Monitoring and Ground-motion Hazard Assessment. Seismological Research Letters, 2009, 80, 31-39.                 | 0.8 | 4         |
| 85 | 2D Variations in Coda Amplitudes in the Middle East. Bulletin of the Seismological Society of America, 2016, 106, 1915-1925.   | 1.1 | 4         |
| 86 | Finding, Organizing, and Preserving Legacy Nuclear Test Monitoring Data—Examples from the Livermore Nevada Network. Seismological Research Letters, 2020, 91, 1413-1416.                           | 0.8 | 3         |
| 87 | Preliminary Analysis of Source Physics Experiment Explosion-Triggered Microseismicity Using the Back-Projection Method. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021312.    | 1.4 | 3         |
| 88 | Source Separation and Medium Change of Contained Chemical Explosions from Coda Wave Interferometry. The Seismic Record, 2021, 1, 3-10.   | 1.3 | 1         |
| 89 | Discriminating Between Large Mine Collapses and Explosions Using Teleseismic P Waves. , 2002, , 803-830.   |     | 1         |
| 90 | Seismic Discrimination of the May 11, 1998 Indian Nuclear Test with Short-period Regional Data from Station NIL (Nilore, Pakistan). , 2002, , 679-700.   |     | 1         |

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| 91 | One-dimensional Shear Velocity Structure of Northern Africa from Rayleigh Wave Group Velocity Dispersion. , 2001, , 1475-1493.                                     |    | 1         |
| 92 | Mapping Crustal Heterogeneity Using Lg Propagation Efficiency Throughout the Middle East, Mediterranean, Southern Europe and Northern Africa. , 2001, , 1165-1188. |    | 0         |