# Gail Atkinson

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8331478/publications.pdf

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|---|---|---|---|
| 66 papers | 7,359 citations | 109321 35 h-index | 110387 64 g-index |
| 70 all docs | 70 docs citations | 70 times ranked | 3033 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Ground-Motion Prediction Equations for the Average Horizontal Component of PGA, PGV, and 5%-Damped PSA at Spectral Periods between 0.01sand 10.0s. Earthquake Spectra, 2008, 24, 99-138. | 3.1 | 1,338 |
| 2 | NGA-West2 Equations for Predicting PGA, PGV, and 5% Damped PSA for Shallow Crustal Earthquakes. Earthquake Spectra, 2014, 30, 1057-1085. | 3.1 | 1,091 |
| 3 | Ground-motion relations for eastern North America. Bulletin of the Seismological Society of America, 1995, 85, 17-30. | 2.3 | 614 |
| 4 | NGA-West2 Research Project. Earthquake Spectra, 2014, 30, 973-987. | 3.1 | 415 |
| 5 | Hydraulic Fracturing and Seismicity in the Western Canada Sedimentary Basin. Seismological Research Letters, 2016, 87, 631-647. | 1.9 | 329 |
| 6 | Comparisons of the NGA Ground-Motion Relations. Earthquake Spectra, 2008, 24, 45-66. | 3.1 | 267 |
| 7 | The shape of ground motion attenuation curves in southeastern Canada. Bulletin of the Seismological Society of America, 1992, 82, 2014-2031. | 2.3 | 246 |
| 8 | Hydraulic fracturing volume is associated with induced earthquake productivity in the Duvernay play. Science, 2018, 359, 304-308. | 12.6 | 181 |
| 9 | Evaluation of models for earthquake source spectra in eastern North America. Bulletin of the Seismological Society of America, 1998, 88, 917-934. | 2.3 | 146 |
| 10 | Comparison of NGA-West2 GMPEs. Earthquake Spectra, 2014, 30, 1179-1197. | 3.1 | 138 |
| 11 | A seismological overview of the induced earthquakes in the Duvernay play near Fox Creek, Alberta. Journal of Geophysical Research: Solid Earth, 2017, 122, 492-505. | 3.4 | 134 |
| 12 | Groundâ€Motion Prediction Equation for Smallâ€toâ€Moderate Events at Short Hypocentral Distances, with Application to Inducedâ€Seismicity Hazards. Bulletin of the Seismological Society of America, 2015, 105, 981-992. | 2.3 | 130 |
| 13 | Regionally Adjustable Generic Groundâ€Motion Prediction Equation Based on Equivalent Pointâ€Source Simulations: Application to Central and Eastern North America. Bulletin of the Seismological Society of America, 2015, 105, 1989-2009. | 2.3 | 126 |
| 14 | Developments in understanding seismicity triggered by hydraulic fracturing. Nature Reviews Earth & Environment, 2020, 1, 264-277. | 29.7 | 123 |
| 15 | Earthquake time histories compatible with the 2005National building code of Canadauniform hazard spectrum. Canadian Journal of Civil Engineering, 2009, 36, 991-1000. | 1.3 | 108 |
| 16 | Hydraulic fracturing and the Crooked Lake Sequences: Insights gleaned from regional seismic networks. Geophysical Research Letters, 2015, 42, 2750-2758. | 4.0 | 104 |
| 17 | Ground motion prediction equations for application to the 2015 Canadian national seismic hazard maps. Canadian Journal of Civil Engineering, 2013, 40, 988-998. | 1.3 | 95 |
| 18 | Notes on ground motion parameters for eastern north America: Duration and H/V ratio. Bulletin of the Seismological Society of America, 1993, 83, 587-596. | 2.3 | 90 |

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|---|---|---|---|
| 19 | Implications of the 2011 M9.0 Tohoku Japan earthquake for the treatment of site effects in large earthquakes. Bulletin of Earthquake Engineering, 2013, 11, 171-203. | 4.1 | 88 |
| 20 | Applicability of the Site Fundamental Frequency as aV<sub>S30</sub>Proxy for Central and Eastern North America. Bulletin of the Seismological Society of America, 2016, 106, 653-664. | 2.3 | 88 |
| 21 | Development of seismic hazard maps for the proposed 2005 edition of the National Building Code of Canada. Canadian Journal of Civil Engineering, 2003, 30, 255-271. | 1.3 | 81 |
| 22 | Site condition evaluation using horizontal-to-vertical response spectral ratios of earthquakes in the NGA-West 2 and Japanese databases. Soil Dynamics and Earthquake Engineering, 2014, 67, 30-43. | 3.8 | 81 |
| 23 | Simple Computation of Liquefaction Probability for Seismic Hazard Applications. Earthquake Spectra, 1984, 1, 107-123. | 3.1 | 80 |
| 24 | Compatible ground-motion time histories for new national seismic hazard maps. Canadian Journal of Civil Engineering, 1998, 25, 305-318. | 1.3 | 76 |
| 25 | NGA-West2 Equations for Predicting Vertical-Component PGA, PGV, and 5%-Damped PSA from Shallow Crustal Earthquakes. Earthquake Spectra, 2016, 32, 1005-1031. | 3.1 | 76 |
| 26 | The high-frequency shape of the source spectrum for earthquakes in eastern and western Canada. Bulletin of the Seismological Society of America, 1996, 86, 106-112. | 2.3 | 75 |
| 27 | Ground Motion Prediction Equations in the San Jacinto Fault Zone: Significant Effects of Rupture Directivity and Fault Zone Amplification. Pure and Applied Geophysics, 2014, 171, 3045-3081. | 1.9 | 70 |
| 28 | Attenuation and source parameters of earthquakes in the Cascadia region. Bulletin of the Seismological Society of America, 1995, 85, 1327-1342. | 2.3 | 68 |
| 29 | Source analysis of a potential hydraulicâ€fracturingâ€induced earthquake near Fox Creek, Alberta. Geophysical Research Letters, 2016, 43, 564-573. | 4.0 | 60 |
| 30 | Seismic performance of woodâ€frame houses in southâ€western British Columbia. Earthquake Engineering and Structural Dynamics, 2011, 40, 903-924. | 4.4 | 57 |
| 31 | An Equivalent Pointâ€Source Model for Stochastic Simulation of Earthquake Ground Motions in California. Bulletin of the Seismological Society of America, 2015, 105, 1435-1455. | 2.3 | 52 |
| 32 | Recent Trends in Ground Motion and Spectral Response Relations for North America. Earthquake Spectra, 1990, 6, 15-35. | 3.1 | 40 |
| 33 | Comparative Study of the Inelastic Seismic Demand of Eastern and Western Canadian Sites. Earthquake Spectra, 2001, 17, 333-358. | 3.1 | 40 |
| 34 | A high-frequency magnitude scale. Bulletin of the Seismological Society of America, 1995, 85, 825-833. | 2.3 | 37 |
| 35 | Activation Rate of Seismicity for Hydraulic Fracture Wells in the Western Canada Sedimentary Basin. Bulletin of the Seismological Society of America, 2020, 110, 2252-2271. | 2.3 | 36 |
| 36 | Database of Processed Time Series and Response Spectra Data for Canada: An Example Application to Study of 2005 MN 5.4 Riviere du Loup, Quebec, Earthquake. Seismological Research Letters, 2010, 81, 1013-1031. | 1.9 | 35 |

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|---|---|---|---|
| 37 | Ground-motion prediction equations for interface earthquakes of M7 to M9 based on empirical data from Japan. Bulletin of Earthquake Engineering, 2014, 12, 549-571. | 4.1 | 35 |
| 38 | Are Groundâ€Motion Models Derived from Natural Events Applicable to the Estimation of Expected Motions for Induced Earthquakes?. Seismological Research Letters, 2017, 88, 430-441. | 1.9 | 33 |
| 39 | Spectral scaling of the 1985 to 1988 Nahanni, Northwest Territories, earthquakes. Bulletin of the Seismological Society of America, 1989, 79, 1736-1761. | 2.3 | 33 |
| 40 | Calibration of time history simulation methods. Bulletin of the Seismological Society of America, 1994, 84, 400-414. | 2.3 | 32 |
| 41 | A preliminary statistical model for hydraulic fractureâ€induced seismicity in the Western Canada Sedimentary Basin. Geophysical Research Letters, 2016, 43, 10,164. | 4.0 | 29 |
| 42 | Stress Drops and Directivity of Induced Earthquakes in the Western Canada Sedimentary Basin. Bulletin of the Seismological Society of America, 2019, 109, 1635-1652. | 2.3 | 29 |
| 43 | Application of a Siteâ€Effects Model Based on Peak Frequency and Average Shearâ€Wave Velocity to California. Bulletin of the Seismological Society of America, 2018, 108, 351-357. | 2.3 | 26 |
| 44 | Shortâ€Term Hindcasts of Seismic Hazard in the Western Canada Sedimentary Basin Caused by Induced and Natural Earthquakes. Seismological Research Letters, 2019, 90, 1420-1435. | 1.9 | 24 |
| 45 | Empirically Calibrated Groundâ€Motion Prediction Equation for Oklahoma. Bulletin of the Seismological Society of America, 2018, 108, 2444-2461. | 2.3 | 23 |
| 46 | Duration of the 2011 Tohoku earthquake ground motions. Journal of Seismology, 2015, 19, 9-25. | 1.3 | 21 |
| 47 | Preliminary Evaluation of Ground Motions from Earthquakes in Alberta. Seismological Research Letters, 2015, 86, 1086-1095. | 1.9 | 18 |
| 48 | Variation of Source-to-Site Distance for Megathrust Subduction Earthquakes: Effects on Ground Motion Prediction Equations. Earthquake Spectra, 2014, 30, 845-866. | 3.1 | 17 |
| 49 | Strategies to prevent damage to critical infrastructure due to induced seismicity. Facets, 2017, 2, 374-394. | 2.4 | 17 |
| 50 | Adjustable Generic Groundâ€Motion Prediction Equation Based on Equivalent Pointâ€Source Simulations: Accounting for Kappa Effects. Bulletin of the Seismological Society of America, 2018, 108, 913-928. | 2.3 | 16 |
| 51 | The Intensity of Ground Motions from Induced Earthquakes with Implications for Damage Potential. Bulletin of the Seismological Society of America, 2020, 110, 2366-2379. | 2.3 | 16 |
| 52 | Estimation of Moment Magnitude and Stress Parameter from ShakeMap Groundâ€Motion Parameters. Bulletin of the Seismological Society of America, 2015, 105, 2572-2588. | 2.3 | 15 |
| 53 | Empirical Evaluation of Aleatory and Epistemic Uncertainty in Eastern Ground Motions. Seismological Research Letters, 2013, 84, 130-138. | 1.9 | 12 |
| 54 | Spatiotemporal Variations in the Completeness Magnitude of the Composite Alberta Seismicity Catalog (CASC). Seismological Research Letters, 2016, 87, 853-863. | 1.9 | 12 |

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|---|---|---|---|
| 55 | Significance of site natural period effects for linear site amplification in central and eastern North America: Empirical and simulation-based models. Earthquake Spectra, 2020, 36, 87-110. | 3.1 | 12 |
| 56 | Statistical Modeling and Characterization of Induced Seismicity Within the Western Canada Sedimentary Basin. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020606. | 3.4 | 12 |
| 57 | Uncertainties in probabilistic seismic hazard assessment as a function of probability level: A case history for Vancouver, British Columbia. Bulletin of the Seismological Society of America, 1983, 73, 1225-1241. | 2.3 | 11 |
| 58 | Nonlinear Response Potential of Real versus Simulated Ground Motions for the 11 March 2011 Tohoku-oki Earthquake. Earthquake Spectra, 2015, 31, 1711-1734. | 3.1 | 10 |
| 59 | A New Yearâ€™s Day icebreaker: icequakes on lakes in Alberta, Canada. Canadian Journal of Earth Sciences, 2019, 56, 183-200. | 1.3 | 8 |
| 60 | Reconciling Ground Motions and Stress Drops for Induced Earthquakes in the Western Canada Sedimentary Basin. Bulletin of the Seismological Society of America, 2020, 110, 2398-2410. | 2.3 | 6 |
| 61 | Coseismic stress parameter of three California Earthquakes derived from the stochastic finite fault technique. Journal of Seismology, 2010, 14, 431-443. | 1.3 | 4 |
| 62 | Uncertainty in recurrence rates of large magnitude events due to short historic catalogs. Journal of Seismology, 2014, 18, 565-573. | 1.3 | 4 |
| 63 | The Interface Between Empirical and Simulation-Based Ground-Motion Models. Pure and Applied Geophysics, 2020, 177, 2069-2081. | 1.9 | 2 |
| 64 | Magnitude Estimation for the 2011 Tohoku-Oki Earthquake Based on Ground Motion Prediction Equations. Pure and Applied Geophysics, 2015, 172, 2139-2155. | 1.9 | 0 |
| 65 | Overview of Ground-Motion Issues for Cascadia Megathrust Events: Simulation of Ground-Motions and Earthquake Site Response. Frontiers in Built Environment, 2017, 3, . | 2.3 | 0 |
| 66 | Introduction to the Special Section on Fault Displacement and Near-Source Ground-Motion Models. Bulletin of the Seismological Society of America, 2021, 111, 2271-2274. | 2.3 | 0 |