# Fabrice Cotton

List of Publications by Year
in descending order



| 153 | 9,175 | 41323 | 46771 |
|---|---|---|---|
| papers | citations | 49 h-index | 89 g-index |

| 159 | 159 | 159 | 4700 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
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| 1 | Within- and Between-Event Variabilities of Strong-Velocity Pulses of Moderate Earthquakes within Dense Seismic Arrays. Bulletin of the Seismological Society of America, 2022, 112, 361-380. | 1.1 | 4 |
| 2 | A regionally adaptable ground-motion model for fourier amplitude spectra of shallow crustal earthquakes in Europe. Bulletin of Earthquake Engineering, 2022, 20, 711-740. | 2.3 | 11 |
| 3 | Within-site variability in earthquake site response. Geophysical Journal International, 2022, 229, 1268-1281. | 1.0 | 9 |
| 4 | Analysis of the 2019 MwÂ5.8 Silivri Earthquake Ground Motions: Evidence of Systematic Azimuthal Variations Associated with Directivity Effects. Seismological Research Letters, 2022, 93, 693-705. | 0.8 | 5 |
| 5 | Calculating earthquake damage building by building: the case of the city of Cologne, Germany. Bulletin of Earthquake Engineering, 2022, 20, 1519-1565. | 2.3 | 9 |
| 6 | Epistemic uncertainty of probabilistic building exposure compositions in scenario-based earthquake loss models. Bulletin of Earthquake Engineering, 2022, 20, 2401-2438. | 2.3 | 8 |
| 7 | How well can we predict earthquake site response so far? Site-specific approaches. Earthquake Spectra, 2022, 38, 1047-1075. | 1.6 | 22 |
| 8 | Near-source magnitude scaling of spectral accelerations: analysis and update of Kotha et al. (2020) model. Bulletin of Earthquake Engineering, 2022, 20, 1343-1370. | 2.3 | 8 |
| 9 | Ground-Motion Modeling as an Image Processing Task: Introducing a Neural Network Based, Fully Data-Driven, and Nonergodic Approach. Bulletin of the Seismological Society of America, 2022, 112, 1565-1582. | 1.1 | 10 |
| 10 | Spatiotemporal Evolution of Ground-Motion Intensity at the Irpinia Near-Fault Observatory, Southern Italy. Bulletin of the Seismological Society of America, 2022, 112, 243-261. | 1.1 | 6 |
| 11 | Coordinated and Interoperable Seismological Data and Product Services in Europe: the EPOS Thematic Core Service for Seismology. Annals of Geophysics, 2022, 65, DM213. | 0.5 | 10 |
| 12 | Regional broad-band ground-shaking modelling over extended and thick sedimentary basins: an example from the Lower Rhine Embayment (Germany). Bulletin of Earthquake Engineering, 2021, 19, 581-603. | 2.3 | 9 |
| 13 | Seismic Hazard Analysis of Surface Level, Using Topographic Condition in the Northeast of Algeria. Pure and Applied Geophysics, 2021, 178, 823-846. | 0.8 | 3 |
| 14 | A ground motion based procedure to identify the earthquakes that are the most relevant for probabilistic seismic hazard analysis. Earthquake Spectra, 2021, 37, 762-788. | 1.6 | 3 |
| 15 | An open-source site database of strong-motion stations in Japan: K-NET and KiK-net (v1.0.0). Earthquake Spectra, 2021, 37, 2126-2149. | 1.6 | 30 |
| 16 | Exploring the Dimensionality of Ground-Motion Data by Applying Autoencoder Techniques. Bulletin of the Seismological Society of America, 2021, 111, 1563-1576. | 1.1 | 6 |
| 17 | Regional Calibration of Hybrid Ground-Motion Simulations in Moderate Seismicity Areas: Application to the Upper Rhine Graben. Bulletin of the Seismological Society of America, 2021, 111, 1422-1444. | 1.1 | 8 |
| 18 | Testing Nonlinear Amplification Factors of Ground-Motion Models. Bulletin of the Seismological Society of America, 2021, 111, 2121-2137. | 1.1 | 16 |

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| 19 | Volcanic Tremor Extraction and Earthquake Detection Using Music Information Retrieval Algorithms. Seismological Research Letters, 2021, 92, 3668-3681. | 0.8 | 6 |
| 20 | Improving depth estimations of African earthquakes using teleseismic data, and influence for the East-African rift seismic hazard characterization. Geophysical Journal International, 2021, 228, 447-460. | 1.0 | 3 |
| 21 | Detection and potential early warning of catastrophic flow events with regional seismic networks. Science, 2021, 374, 87-92. | 6.0 | 54 |
| 22 | How much are sites affected by 2-D and 3-D site effects? A study based on single-station earthquake records and implications for ground motion modelling. Geophysical Journal International, 2021, 228, 1992-2004. | 1.0 | 6 |
| 23 | Variable-resolution building exposure modelling for earthquake and tsunami scenario-based risk assessment: an application case in Lima, Peru. Natural Hazards and Earth System Sciences, 2021, 21, 3599-3628. | 1.5 | 18 |
| 24 | Which is a better proxy, site period or depth to bedrock, in modelling linear site response in addition to the average shear-wave velocity?. Bulletin of Earthquake Engineering, 2020, 18, 797-820. | 2.3 | 49 |
| 25 | Drainage of a deep magma reservoir near Mayotte inferred from seismicity and deformation. Nature Geoscience, 2020, 13, 87-93. | 5.4 | 109 |
| 26 | Applying Conservation of Energy to Estimate Earthquake Frequencies from Strain Rates and Stresses. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020186. | 1.4 | 2 |
| 27 | A Link between Machine Learning and Optimization in Ground-Motion Model Development: Weighted Mixed-Effects Regression with Data-Driven Probabilistic Earthquake Classification. Bulletin of the Seismological Society of America, 2020, 110, 2777-2800. | 1.1 | 2 |
| 28 | A regionally-adaptable â€œscaled backboneâ€•ground motion logic tree for shallow seismicity in Europe: application to the 2020 European seismic hazard model. Bulletin of Earthquake Engineering, 2020, 18, 5087-5117. | 2.3 | 34 |
| 29 | A Two-Scale Preparation Phase Preceded an MwÂ5.8 Earthquake in the Sea of Marmara Offshore Istanbul, Turkey. Seismological Research Letters, 2020, 91, 3139-3147. | 0.8 | 22 |
| 30 | Data-driven testing of the magnitude dependence of earthquake stress parameters using the NGA-West 2 dataset. Journal of Seismology, 2020, 24, 1095-1107. | 0.6 | 3 |
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| 35 | Detecting Site Resonant Frequency Using HVSR: Fourier versus Response Spectrum and the First versus the Highest Peak Frequency. Bulletin of the Seismological Society of America, 2020, 110, 427-440. | 1.1 | 37 |
| 36 | Re-thinking site amplification in regional seismic risk assessment. Earthquake Spectra, 2020, 36, 274-297. | 1.6 | 22 |

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| 37 | Earthquake risk in reinforced concrete buildings during aftershock sequences based on period elongation and operational earthquake forecasting. Structural Safety, 2020, 84, 101922. | 2.8 | 22 |
| 38 | Data-driven and machine learning identification of seismic reference stations in Europe. Geophysical Journal International, 2020, 222, 861-873. | 1.0 | 12 |
| 39 | A regionally-adaptable ground-motion model for shallow crustal earthquakes in Europe. Bulletin of Earthquake Engineering, 2020, 18, 4091-4125. | 2.3 | 71 |
| 40 | Testing the Depths to 1.0 and 2.5â€‰â€‰km/s Velocity Isosurfaces in a Velocity Model for Japan and Implications for Groundâ€Motion Modeling. Bulletin of the Seismological Society of America, 2019, 109, 2710-2721. | 1.1 | 9 |
| 41 | Capturing Regional Variations of Hardâ€Rock Attenuation in Europe. Bulletin of the Seismological Society of America, 2019, 109, 1401-1418. | 1.1 | 18 |
| 42 | A Regionalized Seismicity Model for Subduction Zones Based on Geodetic Strain Rates, Geomechanical Parameters, and Earthquakeâ€Catalog Data. Bulletin of the Seismological Society of America, 2019, 109, 2036-2049. | 1.1 | 4 |
| 43 | Empirical Models of Shear-Wave Radiation Pattern Derived from Large Datasets of Ground-Shaking Observations. Scientific Reports, 2019, 9, 981. | 1.6 | 23 |
| 44 | NGA-West2 Empirical Fourier and Duration Models to Generate Adjustable Response Spectra. Earthquake Spectra, 2019, 35, 61-93. | 1.6 | 25 |
| 45 | Effects of finite source rupture on landslide triggering: the 2016 <i>M</i><sub>w</sub>Â7.1 Kumamoto earthquake. Solid Earth, 2019, 10, 463-486. | 1.2 | 19 |
| 46 | Impact of Magnitude Selection on Aleatory Variability Associated with Groundâ€Motion Prediction Equations: Part IIâ€”Analysis of the Betweenâ€Event Distribution in Central Italy. Bulletin of the Seismological Society of America, 2019, 109, 251-262. | 1.1 | 25 |
| 47 | Does the One-Dimensional Assumption Hold for Site Response Analysis? A Study of Seismic Site Responses and Implication for Ground Motion Assessment Using KiK-Net Strong-Motion Data. Earthquake Spectra, 2019, 35, 883-905. | 1.6 | 58 |
| 48 | The pan-European Engineering Strong Motion (ESM) flatfile: compilation criteria and data statistics. Bulletin of Earthquake Engineering, 2019, 17, 561-582. | 2.3 | 63 |
| 49 | The pan-European engineering strong motion (ESM) flatfile: consistency check via residual analysis. Bulletin of Earthquake Engineering, 2019, 17, 583-602. | 2.3 | 34 |
| 50 | Lateral variations of the Guerreroâ€“Oaxaca subduction zone (Mexico) derived from weak seismicity (Mb3.5+) detected on a single array at teleseismic distance. Geophysical Journal International, 2018, 213, 1002-1012. | 1.0 | 7 |
| 51 | A new approach to site classification: Mixed-effects Ground Motion Prediction Equation with spectral clustering of site amplification functions. Soil Dynamics and Earthquake Engineering, 2018, 110, 318-329. | 1.9 | 53 |
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| 56 | An Evaluation of the Applicability of NGAâ€West2 Groundâ€Motion Models for Japan and New Zealand. Bulletin of the Seismological Society of America, 2018, 108, 836-856. | 1.1 | 15 |
| 57 | Impact of Magnitude Selection on Aleatory Variability Associated with Groundâ€Motion Prediction Equations: Part Iâ€"Local, Energy, and Moment Magnitude Calibration and Stressâ€Drop Variability in Central Italy. Bulletin of the Seismological Society of America, 2018, 108, 1427-1442. | 1.1 | 31 |
| 58 | Toward Seismic Metamaterials: The METAFORET Project. Seismological Research Letters, 2018, 89, 582-593. | 0.8 | 42 |
| 59 | Capturing Regional Variations of Hardâ€Rock Îº0 from Coda Analysis. Bulletin of the Seismological Society of America, 2018, 108, 399-408. | 1.1 | 19 |
| 60 | Temporal Variability of Ground Shaking and Stress Drop in Central Italy: A Hint for Fault Healing?. Bulletin of the Seismological Society of America, 2018, 108, 1853-1863. | 1.1 | 20 |
| 61 | Spatiotemporal Variations of Ground Motion in Northern Chile before and after the 2014 MwÂ8.1 Iquique Megathrust Event. Bulletin of the Seismological Society of America, 2018, 108, 801-814. | 1.1 | 19 |
| 62 | Insights on the Japanese Subduction Megathrust Properties From Depth and Lateral Variability of Observed Ground Motions. Journal of Geophysical Research: Solid Earth, 2018, 123, 8937-8956. | 1.4 | 10 |
| 63 | Kinematic study of Iquique 2014 M 8.1 earthquake: Understanding the segmentation of the seismogenic zone. Earth and Planetary Science Letters, 2018, 503, 131-143. | 1.8 | 19 |
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| 65 | Uncertainty reduction of stress tensor inversion with data-driven catalogue selection. Geophysical Journal International, 2018, 214, 2250-2263. | 1.0 | 1 |
| 66 | Stochastic source, path and site attenuation parameters and associated variabilities for shallow crustal European earthquakes. Bulletin of Earthquake Engineering, 2017, 15, 4531-4561. | 2.3 | 29 |
| 67 | An 8Âmonth slow slip event triggers progressive nucleation of the 2014 Chile megathrust. Geophysical Research Letters, 2017, 44, 4046-4053. | 1.5 | 145 |
| 68 | Derivativeâ€Based Global Sensitivity Analysis: Upper Bounding of Sensitivities in Seismicâ€Hazard Assessment Using Automatic Differentiation. Bulletin of the Seismological Society of America, 2017, 107, 984-1004. | 1.1 | 20 |
| 69 | Spatial Variability of the Directivity Pulse Periods Observed during an Earthquake. Bulletin of the Seismological Society of America, 2017, 107, 308-318. | 1.1 | 10 |
| 70 | V S30, slope, H 800 and f 0: performance of various site-condition proxies in reducing ground-motion aleatory variability and predicting nonlinear site response. Earth, Planets and Space, 2017, 69, . | 0.9 | 52 |
| 71 | Measuring the Performance of Groundâ€Motion Models: The Importance of Being Independent. Seismological Research Letters, 2017, 88, 1212-1217. | 0.8 | 13 |
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| 74 | From Ergodic to Region- and Site-Specific Probabilistic Seismic Hazard Assessment: Method Development and Application at European and Middle Eastern Sites. Earthquake Spectra, 2017, 33, 1433-1453. | 1.6 | 43 |
| 75 | Site-Corrected Magnitude- and Region-Dependent Correlations of Horizontal Peak Spectral Amplitudes. Earthquake Spectra, 2017, 33, 1415-1432. | 1.6 | 20 |
| 76 | Erratum toTaxonomy ofÎº: A Review of Definitions and Estimation Approaches Targeted to Applications. Seismological Research Letters, 2017, 88, 875-876. | 0.8 | 0 |
| 77 | Site-Condition Proxies, Ground Motion Variability, and Data-Driven GMPEs: Insights from the NGA-West2 and RESORCE Data Sets. Earthquake Spectra, 2016, 32, 2027-2056. | 1.6 | 60 |
| 78 | A new view for the geodynamics of Ecuador: Implication in seismogenic source definition and seismic hazard assessment. Tectonics, 2016, 35, 1249-1279. | 1.3 | 76 |
| 79 | Partially non-ergodic region specific GMPE for Europe and Middle-East. Bulletin of Earthquake Engineering, 2016, 14, 1245-1263. | 2.3 | 119 |
| 80 | The 2013 European Seismic Hazard Model: key components and results. Bulletin of Earthquake Engineering, 2015, 13, 3553-3596. | 2.3 | 407 |
| 81 | Frequencyâ€Scaled Curvature as a Proxy for Topographic Siteâ€Effect Amplification and Groundâ€Motion Variability. Bulletin of the Seismological Society of America, 2015, 105, 354-367. | 1.1 | 68 |
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| 83 | Is Groundâ€Motion Variability Distance Dependent? Insight from Finiteâ€Source Rupture Simulations. Bulletin of the Seismological Society of America, 2015, 105, 950-962. | 1.1 | 15 |
| 84 | Regional Stochastic GMPEs in Lowâ€Seismicity Areas: Scaling and Aleatory Variability Analysisâ€”Application to the French Alps. Bulletin of the Seismological Society of America, 2015, 105, 1883-1902. | 1.1 | 50 |
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| 87 | Understanding the physics of kappa (Îº): insights from a downhole array. Geophysical Journal International, 2015, 203, 678-691. | 1.0 | 76 |
| 88 | A Magnitude Attenuation Function Derived for the 2014 Pisagua (Chile) Sequence Using Strong-Motion Data. Bulletin of the Seismological Society of America, 2014, 104, 3145-3152. | 1.1 | 2 |
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| 90 | Reference database for seismic ground-motion in Europe (RESORCE). Bulletin of Earthquake Engineering, 2014, 12, 311-339. | 2.3 | 212 |

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| 91 | Comparisons among the five ground-motion models developed using RESORCE for the prediction of response spectral accelerations due to earthquakes in Europe and the Middle East. Bulletin of Earthquake Engineering, 2014, 12, 341-358. | 2.3 | 71 |
| 92 | High-frequency directivity effects: evidence from analysis of the Les Saintes records. Journal of Seismology, 2014, 18, 457-466. | 0.6 | 4 |
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| 99 | On the Testing of Ground-Motion Prediction Equations against Small-Magnitude Data. Bulletin of the Seismological Society of America, 2012, 102, 1994-2007. | 1.1 | 74 |
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| 102 | Toward a ground-motion logic tree for probabilistic seismic hazard assessment in Europe. Journal of Seismology, 2012, 16, 451-473. | 0.6 | 176 |
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| 105 | Spatial and temporal evolution of a long term slow slip event: the 2006 Guerrero Slow Slip Event. Geophysical Journal International, 2011, 184, 816-828. | 1.0 | 103 |
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| 111 | New approach for couplingk<sup>ï¿½ï¿½2</sup>and empirical Green's functions: application to the blind prediction of broad-band ground motion in the Grenoble basin. Geophysical Journal International, 2009, 179, 1627-1644. | 1.0 | 35 |
| 112 | Self-similarity of the largest-scale segmentation of the faults: Implications for earthquake behavior. Earth and Planetary Science Letters, 2009, 288, 370-381. | 1.8 | 65 |
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| 136 | A unified model for dynamic and static stress triggering of aftershocks, antishocks, remote seismicity, creep events, and multisegmented rupture. Journal of Geophysical Research, 2004, 109, . | 3.3 | 28 |
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