

# Gail Christeson

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

5,122  
citations

126907

33  
h-index

91884

69  
g-index

83  
all docs

83  
docs citations

83  
times ranked

3948  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | The Chicxulub Asteroid Impact and Mass Extinction at the Cretaceous-Paleogene Boundary. <i>Science</i> , 2010, 327, 1214-1218.  | 12.6 | 1,140     |
| 2  | Size and morphology of the Chicxulub impact crater. <i>Nature</i> , 1997, 390, 472-476.   | 27.8 | 250       |
| 3  | The formation of peak rings in large impact craters. <i>Science</i> , 2016, 354, 878-882.   | 12.6 | 181       |
| 4  | Importance of pre-impact crustal structure for the asymmetry of the Chicxulub impact crater. <i>Nature Geoscience</i> , 2008, 1, 131-135.   | 12.9 | 156       |
| 5  | Relationship between spreading rate and the seismic structure of mid-ocean ridges. <i>Nature</i> , 1992, 355, 815-817.  | 27.8 | 154       |
| 6  | Subduction initiation and ophiolite crust: new insights from IODP drilling. <i>International Geology Review</i> , 2017, 59, 1439-1450.  | 2.1  | 145       |
| 7  | Synthesis of Oceanic Crustal Structure From Two-Dimensional Seismic Profiles. <i>Reviews of Geophysics</i> , 2019, 57, 504-529.   | 23.0 | 138       |
| 8  | The Yakutat terrane: Dramatic change in crustal thickness across the Transition fault, Alaska. <i>Geology</i> , 2010, 38, 895-898.  | 4.4  | 129       |
| 9  | Rapid recovery of life at ground zero of the end-Cretaceous mass extinction. <i>Nature</i> , 2018, 558, 288-291.  | 27.8 | 123       |
| 10 | Crustal structure of the Yakutat terrane and the evolution of subduction and collision in southern Alaska. <i>Journal of Geophysical Research</i> , 2012, 117, .  | 3.3  | 121       |
| 11 | Seismic constraints on shallow crustal emplacement processes at the fast spreading East Pacific Rise. <i>Journal of Geophysical Research</i> , 1994, 99, 17957-17973.   | 3.3  | 118       |
| 12 | Peak-ring formation in large impact craters: geophysical constraints from Chicxulub. <i>Earth and Planetary Science Letters</i> , 2000, 183, 347-354.   | 4.4  | 113       |
| 13 | Structure of uppermost fast-spread oceanic crust exposed at the Hess Deep Rift: Implications for subaxial processes at the East Pacific Rise. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, n/a-n/a. | 2.5  | 111       |
| 14 | Structure of young upper crust at the East Pacific Rise near 9°30'N. <i>Geophysical Research Letters</i> , 1992, 19, 1045-1048.   | 4.0  | 108       |
| 15 | GEOPHYSICAL CHARACTERIZATION OF THE CHICXULUB IMPACT CRATER. <i>Reviews of Geophysics</i> , 2013, 51, 31-52.  | 23.0 | 100       |
| 16 | The first day of the Cenozoic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19342-19351.   | 7.1  | 100       |
| 17 | Dynamic modeling suggests terrace zone asymmetry in the Chicxulub crater is caused by target heterogeneity. <i>Earth and Planetary Science Letters</i> , 2008, 270, 221-230.                                  | 4.4  | 96        |
| 18 | Deep crustal structure of the Chicxulub impact crater. <i>Journal of Geophysical Research</i> , 2001, 106, 21751-21769.   | 3.3  | 83        |

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|----|---|------|-----------|
| 19 | Inconsistent correlation of seismic layer 2a and lava layer thickness in oceanic crust. <i>Nature</i> , 2007, 445, 418-421.   | 27.8 | 78        |
| 20 | Structure of the Costa Rica convergent margin, offshore Nicoya Peninsula. <i>Journal of Geophysical Research</i> , 1999, 104, 25443-25468.  | 3.3  | 77        |
| 21 | Deep crustal structure of the northeastern Gulf of Mexico: Implications for rift evolution and seafloor spreading. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 6802-6822.                          | 3.4  | 72        |
| 22 | Probing the hydrothermal system of the Chicxulub impact crater. <i>Science Advances</i> , 2020, 6, eaaz3053.  | 10.3 | 69        |
| 23 | Extrusive thickness variability at the East Pacific Rise, 9°-10°N: Constraints from seismic techniques. <i>Journal of Geophysical Research</i> , 1996, 101, 2859-2873.  | 3.3  | 67        |
| 24 | Deep crustal structure in the eastern Gulf of Mexico. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 6782-6801.   | 3.4  | 66        |
| 25 | Crustal structure of the Caribbean–northeastern South America arc–continent collision zone. <i>Journal of Geophysical Research</i> , 2008, 113, .   | 3.3  | 65        |
| 26 | Extraordinary rocks from the peak ring of the Chicxulub impact crater: P-wave velocity, density, and porosity measurements from IODP/ICDP Expedition 364. <i>Earth and Planetary Science Letters</i> , 2018, 495, 1-11. | 4.4  | 65        |
| 27 | Evolution of the Grenada and Tobago basins and implications for arc migration. <i>Marine and Petroleum Geology</i> , 2011, 28, 235-258.   | 3.3  | 60        |
| 28 | Continental rifting and sediment infill in the northwestern Gulf of Mexico. <i>Geology</i> , 2015, 43, 631-634.   | 4.4  | 59        |
| 29 | Backarc basin evolution and cordilleran orogenesis: Insights from new ocean-bottom seismograph refraction profiling in Bransfield Strait, Antarctica. <i>Geology</i> , 2003, 31, 107.                                   | 4.4  | 51        |
| 30 | Tectonic and climatic influence on the evolution of the Surveyor Fan and Channel system, Gulf of Alaska. , 2011, 7, 830-844.  |      | 51        |
| 31 | Late Cretaceous–Miocene diachronous onset of back thrusting along the South Caribbean deformed belt and its importance for understanding processes of arc collision and crustal growth. <i>Tectonics</i> , 2011, 30, .  | 2.8  | 46        |
| 32 | Shear and compressional wave structure of the East Pacific Rise, 9°-10°N. <i>Journal of Geophysical Research</i> , 1997, 102, 7821-7835.  | 3.3  | 44        |
| 33 | Deep crustal structure of Bransfield Strait: Initiation of a back arc basin by rift reactivation and propagation. <i>Journal of Geophysical Research</i> , 2003, 108, .   | 3.3  | 44        |
| 34 | Seismic images of the Transition fault and the unstable Yakutat–Pacific–North American triple junction. <i>Geology</i> , 2013, 41, 571-574.   | 4.4  | 38        |
| 35 | Structure and origin of the rifted margin of the northern Gulf of Mexico. , 2018, 14, 1804-1817.  |      | 37        |
| 36 | Mantle deformation beneath the Chicxulub impact crater. <i>Earth and Planetary Science Letters</i> , 2009, 284, 249-257.  | 4.4  | 35        |

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|----|---|-----|-----------|
| 37 | Full waveform tomographic images of the peak ring at the Chicxulub impact crater. <i>Journal of Geophysical Research</i> , 2011, 116, .   | 3.3 | 35        |
| 38 | Testing the resolution of a 3D velocity tomogram across the Chicxulub crater. <i>Tectonophysics</i> , 2002, 355, 215-226.   | 2.2 | 34        |
| 39 | Structure of the Lesser Antilles subduction zone backstop and its role in a large accretionary system. <i>Journal of Geophysical Research</i> , 2003, 108, .  | 3.3 | 34        |
| 40 | The shallow attenuation structure of the fast-spreading East Pacific Rise near 9°30'N. <i>Geophysical Research Letters</i> , 1994, 21, 321-324.   | 4.0 | 33        |
| 41 | Seismic Layer 2A: Evolution and Thickness From 0 to 70 Ma Crust in the Slow to Intermediate Spreading South Atlantic. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 7633-7651.                         | 3.4 | 32        |
| 42 | Long-Lasting Evolution of Layer 2A in the Western South Atlantic: Evidence for Low Temperature Hydrothermal Circulation in Old Oceanic Crust. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 2252-2273. | 3.4 | 30        |
| 43 | The role of farfield tectonic stress in oceanic intraplate deformation, Gulf of Alaska. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1862-1872.   | 3.4 | 26        |
| 44 | Evolution of the Southern Caribbean Plate Boundary. <i>Eos</i> , 2006, 87, 97.  | 0.1 | 25        |
| 45 | Explosive interaction of impact melt and seawater following the Chicxulub impact event. <i>Geology</i> , 2020, 48, 108-112.   | 4.4 | 25        |
| 46 | Characterizing the Galicia Bank-Southern Iberia Abyssal Plain rifted margin segment boundary using multichannel seismic and ocean bottom seismometer data. <i>Journal of Geophysical Research</i> , 2007, 112, .          | 3.3 | 24        |
| 47 | Mapping of seismic layer 2A/2B boundary above the sheeted dike unit at intermediate spreading crust exposed near the Blanco Transform. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .                          | 2.5 | 24        |
| 48 | Moho interface beneath Yakutat terrane, southern Alaska. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 5084-5097.  | 3.4 | 24        |
| 49 | Deep structure of an island arc backstop, Lesser Antilles subduction zone. <i>Journal of Geophysical Research</i> , 2003, 108, .  | 3.3 | 23        |
| 50 | Impact-Induced Porosity and Microfracturing at the Chicxulub Impact Structure. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1960-1978.  | 3.6 | 23        |
| 51 | South Atlantic Transect: Variations in Oceanic Crustal Structure at 31°S. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009017.  | 2.5 | 21        |
| 52 | Effect of shot interval on ocean bottom seismograph and hydrophone data. <i>Geophysical Research Letters</i> , 1996, 23, 3783-3786.   | 4.0 | 17        |
| 53 | Three-dimensional joint inversion of traveltimes and gravity data across the Chicxulub impact crater. <i>Journal of Geophysical Research</i> , 2009, 114, .   | 3.3 | 17        |
| 54 | Seismic images of Chicxulub impact melt sheet and comparison with the Sudbury structure. , 2010, , .  |     | 17        |

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|----|--|------|-----------|
| 55 | Response to "Cretaceous Extinctions. Science, 2010, 328, 975-976.  | 12.6 | 16        |
| 56 | Subduction and accretion of sedimentary rocks in the Yakutat collision zone, St. Elias orogen, Gulf of Alaska. Earth and Planetary Science Letters, 2013, 381, 116-126.                                | 4.4  | 16        |
| 57 | Structure of the Northern Symmetrical Segment of the Juan de Fuca Ridge. Marine Geophysical Researches, 1993, 15, 219-240.   | 1.2  | 15        |
| 58 | Upper crustal structure of the Chicxulub impact crater from wide-angle ocean bottom seismograph data. , 1999, , .  |      | 15        |
| 59 | Physical properties and seismic structure of the Mariana forearc crust: Results from IODP Expedition 352 and comparison with oceanic crust. Geochemistry, Geophysics, Geosystems, 2016, 17, 4973-4991. | 2.5  | 15        |
| 60 | U-Pb memory behavior in Chicxulub's peak ring - Applying U-Pb depth profiling to shocked zircon. Chemical Geology, 2019, 525, 356-367.   | 3.3  | 15        |
| 61 | The Eastern North American Margin Community Seismic Experiment: An Amphibious Active and Passive Source Dataset. Seismological Research Letters, 2020, 91, 533-540.                                    | 1.9  | 15        |
| 62 | Geophysical constraints on the shear stress along the Marquesas Fracture Zone. Journal of Geophysical Research, 1992, 97, 4425-4437.   | 3.3  | 14        |
| 63 | Seismic attenuation in the Costa Rica margin wedge: amplitude modeling of ocean bottom hydrophone data. Earth and Planetary Science Letters, 2000, 179, 391-405.                                       | 4.4  | 14        |
| 64 | Shallow oceanic crust: Full waveform tomographic images of the seismic layer 2A/2B boundary. Journal of Geophysical Research, 2012, 117, .   | 3.3  | 13        |
| 65 | Chicxulub Crater Seismic Survey prepares way for future drilling. Eos, 2005, 86, 325.  | 0.1  | 11        |
| 66 | Intraplate deformation of oceanic crust near the Rio Grande Rise in the South Atlantic. Tectonophysics, 2020, 790, 228543.   | 2.2  | 11        |
| 67 | Hydrothermal Models Constrained by Fine-Scale Seismic Velocities Confirm Hydrothermal Cooling of 73 Ma South Atlantic Crust. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021612.   | 3.4  | 11        |
| 68 | Dynamic response to strike-slip tectonic control on the deposition and evolution of the Baranof Fan, Gulf of Alaska. , 2014, 10, 680-691.  |      | 10        |
| 69 | Aleutian basin oceanic crust. Earth and Planetary Science Letters, 2015, 426, 167-175.   | 4.4  | 9         |
| 70 | Comparison of Geologic and Seismic Structure of Uppermost Fast-Spreading Oceanic Crust: Insights From a Crustal Cross-Section at the Hess Deep Rift. , 2003, , 99-129.                                 |      | 9         |
| 71 | Shaping of the Present-Day Deep Biosphere at Chicxulub by the Impact Catastrophe That Ended the Cretaceous. Frontiers in Microbiology, 2021, 12, 668240.   | 3.5  | 8         |
| 72 | Mapping the Chicxulub Impact Stratigraphy and Peak Ring Using Drilling and Seismic Data. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006938.   | 3.6  | 8         |

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|----|---|------|-----------|
| 73 | Postmagmatic Tectonic Evolution of the Outer Izu-Bonin Forearc Revealed by Sediment Basin Structure and Vein Microstructure Analysis: Implications for a 15 Ma Hiatus Between Pacific Plate Subduction Initiation and Forearc Extension. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5867-5895. | 2.5  | 6         |
| 74 | Ocean resurge-induced impact melt dynamics on the peak-ring of the Chicxulub impact structure, Mexico. <i>International Journal of Earth Sciences</i> , 2021, 110, 2619-2636.   | 1.8  | 5         |
| 75 | Ocean Drilling Perspectives on Meteorite Impacts. <i>Oceanography</i> , 2019, 32, 120-134.  | 1.0  | 3         |
| 76 | 70 million years of seafloor spreading and magmatism in the South Atlantic. <i>Earth and Planetary Science Letters</i> , 2021, 574, 117173.   | 4.4  | 2         |
| 77 | Future Scientific Drilling of Oceanic Crust. <i>Eos</i> , 2010, 91, 133.  | 0.1  | 1         |
| 78 | Borehole Seismic Observations From the Chicxulub Impact Drilling: Implications for Seismic Reflectivity and Impact Damage. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .  | 2.5  | 1         |
| 79 | Journal club. <i>Nature</i> , 2009, 459, 755-755.   | 27.8 | 0         |
| 80 | Tectonic Activity Near the Rio Grande Rise Increases Fluid Flux in Old Oceanic Crust. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094624.  | 4.0  | 0         |