

# Roy D Hyndman

## List of Publications by Year in descending order

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35  
papers

3,278  
citations

257357

24  
h-index

395590

33  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2203  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal constraints on the zone of major thrust earthquake failure: The Cascadia Subduction Zone. <i>Journal of Geophysical Research</i> , 1993, 98, 2039-2060.	3.3	481
2	A mechanism for the formation of methane hydrate and seafloor bottom-simulating reflectors by vertical fluid expulsion. <i>Journal of Geophysical Research</i> , 1992, 97, 7025-7041.	3.3	335
3	The thermal structure of subduction zone back arcs. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	301
4	Subduction zone backarcs, mobile belts, and orogenic heat. <i>GSA Today</i> , 2005, 15, 4.	1.1	237
5	Rates of fluid expulsion across the Northern Cascadia Accretionary Prism: Constraints from new heat flow and multichannel seismic reflection data. <i>Journal of Geophysical Research</i> , 1990, 95, 8869-8889.	3.3	192
6	Seismic velocity increase and deep-sea gas hydrate concentration above a bottom-simulating reflector on the northern Cascadia continental slope. <i>Journal of Geophysical Research</i> , 1996, 101, 13655-13671.	3.3	162
7	Accretion and recent deformation of sediments along the northern Cascadia subduction zone. <i>Bulletin of the Geological Society of America</i> , 1989, 101, 1465-1480.	1.6	161
8	Yakutat collision and strain transfer across the northern Canadian Cordillera. <i>Geology</i> , 2002, 30, 495.	2.0	147
9	Tectonic sediment thickening, fluid expulsion, and the thermal regime of subduction zone accretionary prisms: The Cascadia Margin off Vancouver Island. <i>Journal of Geophysical Research</i> , 1993, 98, 21865-21876.	3.3	120
10	Seismic velocity studies of a gas hydrate bottom-simulating reflector on the northern Cascadia continental margin: Amplitude modeling and full waveform inversion. <i>Journal of Geophysical Research</i> , 1999, 104, 1179-1191.	3.3	89
11	High-resolution, deep-towed, multichannel seismic survey of deep-sea gas hydrates off western Canada. <i>Geophysics</i> , 2002, 67, 1038-1047.	1.4	84
12	Queen Charlotte Area Cenozoic tectonics and volcanism and their association with relative plate motions along the northeastern Pacific Margin. <i>Journal of Geophysical Research</i> , 1993, 98, 14257-14277.	3.3	75
13	The Nootka Fault Zone -- a new plate boundary off western Canada. <i>Geophysical Journal International</i> , 1979, 58, 667-683.	1.0	71
14	Crustal temperatures near the Lithoprobe Southern Canadian Cordillera Transect. <i>Canadian Journal of Earth Sciences</i> , 1992, 29, 1197-1214.	0.6	71
15	Seismic velocities and inferred porosities in the accretionary wedge sediments at the Cascadia margin. <i>Journal of Geophysical Research</i> , 1994, 99, 4413-4427.	3.3	70
16	Effective elastic thickness $T_{\text{eff}}$ of the lithosphere in western Canada. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	70
17	Seismicity and rates of relative motion on the plate boundaries of Western North America. <i>Geophysical Journal International</i> , 1983, 72, 59-82.	1.0	67
18	GPS deformation in a region of high crustal seismicity: N. Cascadia forearc. <i>Earth and Planetary Science Letters</i> , 2002, 198, 41-48.	1.8	67

#	ARTICLE	IF	CITATIONS
19	Coincident conductive and reflective middle and lower crust in southern British Columbia. <i>Geophysical Journal International</i> , 1995, 120, 111-131.	1.0	59
20	Ambient seismic noise tomography of Canada and adjacent regions: Part I. Crustal structures. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 5865-5887.	1.4	50
21	Forearc structure beneath southwestern British Columbia: A three-dimensional tomographic velocity model. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	45
22	Distribution of the Pacific/North America motion in the Queen Charlotte Islands-S. Alaska plate boundary zone. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	37
23	An Overview of the 28 October 2012 Mw 7.7 Earthquake in Haida Gwaii, Canada: A Tsunamigenic Thrust Event Along a Predominantly Strike-Slip Margin. <i>Pure and Applied Geophysics</i> , 2014, 171, 3457-3465.	0.8	33
24	Induced Seismicity in Western Canada Linked to Tectonic Strain Rate: Implications for Regional Seismic Hazard. <i>Geophysical Research Letters</i> , 2018, 45, 11,104.	1.5	30
25	Tectonics, Dynamics, and Seismic Hazard in the Canada-Alaska Cordillera. <i>Geophysical Monograph Series</i> , 0, , 297-319.	0.1	28
26	Mountain Building Orogeny in Precollision Hot Backarcs: North American Cordillera, Indiaâ€¦Tibet, and Grenville Province. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 2057-2079.	1.4	21
27	Upper crustal structure of southwestern British Columbia from the 1998 Seismic Hazards Investigation in Puget Sound. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	16
28	4. Seismic Indicators of Natural Gas Hydrate and Underlying Free Gas. , 2010, , 39-71.		16
29	Submarine landslides offshore Vancouver Island along the northern Cascadia margin, British Columbia: why preconditioning is likely required to trigger slope failure. <i>Geo-Marine Letters</i> , 2016, 36, 323-337.	0.5	16
30	Origin of Regional Barrovian Metamorphism in Hot Backarcs Prior to Orogeny Deformation. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 460-469.	1.0	15
31	Earthquake rate, slip rate, and the effective seismic thickness for oceanic transform faults of the Juan de Fuca plate system. <i>Geophysical Journal International</i> , 2005, 160, 855-868.	1.0	13
32	Hygrometric Control on the Lithosphereâ€¦Asthenosphere Boundary: A 28 Million Year Record From the Canadian Cordillera. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091957.	1.5	11
33	Geophysical and Geochemical Constraints on Neogeneâ€¦Recent Volcanism in the North American Cordillera. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009637.	1.0	11
34	Tectonic Consequences of a Uniformly Hot Backarc and Why is the Cordillera Mountain Belt High?. <i>Geoscience Canada</i> , 2015, 42, 383.	0.3	11
35	Focused Fluid Flow Along the Nootka Fault Zone and Continental Slope, Explorerâ€¦Juan de Fuca Plate Boundary. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009095.	1.0	2