

# Walter D Mooney

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4938110/walter-d-mooney-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61

papers

5,864

citations

31

h-index

71

g-index

71

ext. papers

6,442

ext. citations

3.8

avg, IF

5.82

L-index

#	Paper	IF	Citations
61	Seismic velocity structure and composition of the continental crust: A global view. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 9761-9788		2015
60	CRUST 5.1: A global crustal model at 5°E. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 727-747		738
59	Thermal thickness and evolution of Precambrian lithosphere: A global study. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 16387-16414		602
58	Crustal structure of mainland China from deep seismic sounding data. <i>Tectonophysics</i> , <b>2006</b> , 420, 239-253	3.1	204
57	Weakness of the lower continental crust: a condition for delamination, uplift, and escape. <i>Tectonophysics</i> , <b>1998</b> , 296, 47-60	3.1	175
56	Crustal structure of southwestern Saudi Arabia. <i>Journal of Geophysical Research</i> , <b>1986</b> , 91, 6491		154
55	Crustal structure of the northeastern margin of the Tibetan plateau from the Songpan-Ganzi terrane to the Ordos basin. <i>Tectonophysics</i> , <b>2006</b> , 420, 253-266	3.1	135
54	Density of the continental roots: compositional and thermal contributions. <i>Earth and Planetary Science Letters</i> , <b>2003</b> , 209, 53-69	5.3	135
53	Crustal structure of China from deep seismic sounding profiles. <i>Tectonophysics</i> , <b>1998</b> , 288, 105-113	3.1	128
52	An updated global earthquake catalogue for stable continental regions: reassessing the correlation with ancient rifts. <i>Geophysical Journal International</i> , <b>2005</b> , 161, 707-721	2.6	113
51	The North American upper mantle: Density, composition, and evolution. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		100
50	Composition of the crust in the Grenville and Appalachian Provinces of North America inferred from V P /V S ratios. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 15225-15241		87
49	Crustal structure across the Altyn Tagh Range at the northern margin of the Tibetan Plateau and tectonic implications. <i>Earth and Planetary Science Letters</i> , <b>2006</b> , 241, 804-814	5.3	86
48	Seismic structure of the crust and uppermost mantle of South America and surrounding oceanic basins. <i>Journal of South American Earth Sciences</i> , <b>2013</b> , 42, 260-276	2	77
47	On the relations between cratonic lithosphere thickness, plate motions, and basal drag. <i>Tectonophysics</i> , <b>2002</b> , 358, 211-231	3.1	73
46	The structural and geochemical evolution of the continental crust: Support for the oceanic plateau model of continental growth. <i>Reviews of Geophysics</i> , <b>1995</b> , 33, 231	23.1	69
45	Shear wave velocity, seismic attenuation, and thermal structure of the continental upper mantle. <i>Geophysical Journal International</i> , <b>2004</b> , 157, 607-628	2.6	65

44	Poroelastic stress-triggering of the 2005 M8.7 Nias earthquake by the 2004 M9.2 Sumatra-Andaman earthquake. <i>Earth and Planetary Science Letters</i> , <b>2010</b> , 293, 289-299	5.3	61
43	High resolution regional crustal models from irregularly distributed data: Application to Asia and adjacent areas. <i>Tectonophysics</i> , <b>2013</b> , 602, 55-68	3.1	60
42	Crustal seismicity and the earthquake catalog maximum moment magnitude (M <sub>cmax</sub> ) in stable continental regions (SCRs): Correlation with the seismic velocity of the lithosphere. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 357-358, 78-83	5.3	58
41	The crustal structure from the Altai Mountains to the Altyn Tagh fault, northwest China. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		57
40	Seismic structure of the Central US crust and shallow upper mantle: Uniqueness of the Reelfoot Rift. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 402, 157-166	5.3	45
39	Crustal Structure of the Northeastern Tibetan Plateau from the Southern Tarim Basin to the Sichuan Basin, China. <i>Tectonophysics</i> , <b>2013</b> , 584, 191-208	3.1	42
38	Cratonic root beneath North America shifted by basal drag from the convecting mantle. <i>Nature Geoscience</i> , <b>2015</b> , 8, 797-800	18.3	40
37	Crustal structure of the northern margin of the eastern Tien Shan, China, and its tectonic implications for the 1906 M~7.7 Manas earthquake. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 223, 187-202	5.3	39
36	Variations of the lithospheric strength and elastic thickness in North America. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2015</b> , 16, 2197-2220	3.6	37
35	Seismic velocity structure of the crust and shallow mantle of the Central and Eastern United States by seismic surface wave imaging. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 118-126	4.9	35
34	Density, temperature, and composition of the North American lithosphere—New insights from a joint analysis of seismic, gravity, and mineral physics data: 1. Density structure of the crust and upper mantle. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2014</b> , 15, 4781-4807	3.6	34
33	Density structure of the lithosphere in the southwestern United States and its tectonic significance. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 721-739		33
32	Crustal structure across the Three Gorges area of the Yangtze platform, central China, from seismic refraction/wide-angle reflection data. <i>Tectonophysics</i> , <b>2009</b> , 475, 423-437	3.1	31
31	Chapter 2: Seismic methods for determining earthquake source parameters and lithospheric structure. <i>Memoir of the Geological Society of America</i> , <b>1989</b> , 11-34		31
30	Density, temperature, and composition of the North American lithosphere—New insights from a joint analysis of seismic, gravity, and mineral physics data: 2. Thermal and compositional model of the upper mantle. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2014</b> , 15, 4808-4830	3.6	29
29	The 17 July 2006 Tsunami Earthquake in West Java, Indonesia. <i>Seismological Research Letters</i> , <b>2007</b> , 78, 201-207	3	29
28	NACr14: A 3D model for the crustal structure of the North American Continent. <i>Tectonophysics</i> , <b>2014</b> , 631, 65-86	3.1	26
27	Mantle origin of the Emeishan large igneous province (South China) from the analysis of residual gravity anomalies. <i>Lithos</i> , <b>2014</b> , 204, 4-13	2.9	25

26	Crustal structure of the central Qaidam basin imaged by seismic wide-angle reflection/refraction profiling. <i>Tectonophysics</i> , <b>2013</b> , 584, 174-190	3.1	25
25	Thermal and chemical variations in subcrustal cratonic lithosphere: evidence from crustal isostasy. <i>Lithos</i> , <b>2003</b> , 71, 185-193	2.9	24
24	Exploring the Earth's Crust: History and Results of Controlled-Source Seismology <b>2012</b> ,		20
23	3-D Density, Thermal, and Compositional Model of the Antarctic Lithosphere and Implications for Its Evolution. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 688-707	3.6	17
22	Upper mantle velocity structure beneath the Arabian shield from Rayleigh surface wave tomography and its implications. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2017</b> , 122, 6552-6568	3.6	15
21	Two-stage Red Sea rifting inferred from mantle earthquakes in Neoproterozoic lithosphere. <i>Earth and Planetary Science Letters</i> , <b>2018</b> , 497, 92-101	5.3	13
20	Crustal structure of the middle segment of the Qilian fold belt and the coupling mechanism of its associated basin and range system. <i>Tectonophysics</i> , <b>2019</b> , 770, 128154	3.1	11
19	Two lithospheric profiles across southern California derived from gravity and seismic data. <i>Journal of Geodynamics</i> , <b>2007</b> , 43, 274-307	2.2	11
18	Simulation of active tectonic processes for a convecting mantle with moving continents. <i>Geophysical Journal International</i> , <b>2006</b> , 164, 611-623	2.6	11
17	Project NarB iii: Refraction Observation Across a Leading Edge, Malpelo Island to the Colombian Cordillera Occidental. <i>Geophysical Monograph Series</i> , <b>2013</b> , 105-132	1.1	7
16	Back-arc basin evolution in the southern Lhasa sub-terrane, southern Tibet: Constraints from U-Pb ages and in-situ Lu-Hf isotopes of detrital zircons. <i>Journal of Asian Earth Sciences</i> , <b>2019</b> , 185, 104026	2.8	5
15	Interface inversion of gravitational data using spherical triangular tessellation: an application for the estimation of the Moon's crustal thickness. <i>Geophysical Journal International</i> , <b>2019</b> , 217, 703-713	2.6	5
14	Coulomb stress models for the 2019 Ridgecrest, California earthquake sequence. <i>Tectonophysics</i> , <b>2020</b> , 791, 228555	3.1	5
13	Deep Structure of the Eastern Himalayan Collision Zone: Evidence for Underthrusting and Delamination in the Postcollisional Stage. <i>Tectonics</i> , <b>2019</b> , 38, 3614-3628	4.3	4
12	A Seismic Intensity Survey of the 1 April 2014 Mw 8.2 Iquique, Chile, Earthquake and Tsunami, and a Comparison with Strong-Motion Data. <i>Seismological Research Letters</i> , <b>2017</b> , 88, 1232-1240	3	4
11	Integrated geologic and geophysical studies of North American continental intraplate seismicity <b>2007</b> ,		3
10	The Seismicity of Indonesia and Tectonic Implications. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2021</b> , 22, e2021GC009812	3.6	3
9	Crustal imaging of northern Harrat Rahat, Saudi Arabia, from ambient noise tomography. <i>Geophysical Journal International</i> , <b>2019</b> , 219, 1532-1549	2.6	2

8	Crustal P wave velocity structure beneath the SE margin of the Tibetan Plateau from Deep Seismic Sounding results. <i>Tectonophysics</i> , <b>2019</b> , 755, 109-126	3.1	2
7	A Seismic Intensity Survey of the 16 April 2016 Mw 7.8 Pedernales, Ecuador, Earthquake: A Comparison with Strong-Motion Data and Teleseismic Backprojection. <i>Seismological Research Letters</i> , <b>2021</b> , 92, 2156-2171	3	2
6	A Thermo-Compositional Model of the Cratonic Lithosphere of South America. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2021</b> , 22, e2020GC009307	3.6	2
5	Field Insights and Analysis of the 2018 Mw 7.5 Palu, Indonesia Earthquake, Tsunami and Landslides. <i>Pure and Applied Geophysics</i> , 1	2.2	2
4	Structure and Evolution of Continents and their Margins: A Global Synthesis. <i>Acta Geologica Sinica</i> , <b>2019</b> , 93, 96-97	0.7	1
3	The Moho Discontinuity <b>2021</b> , 732-743		1
2	Magnetotelluric evidence for asymmetric simple shear extension and lithospheric thinning in South China. <i>Acta Geologica Sinica</i> , <b>2019</b> , 93, 92-93	0.7	
1	Mantle-earthquake geothermometry of rejuvenated Proterozoic lithosphere, western Saudi Arabia. <i>Acta Geologica Sinica</i> , <b>2019</b> , 93, 102-103	0.7	