Walter D Mooney

List of Publications by Year in Descending Order

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	A Seismic Intensity Survey of the 16 April 2016 Mw 7.8 Pedernales, Ecuador, Earthquake: A Comparison with Strong-Motion Data and Teleseismic Backprojection. *Seismological Research Letters*, **2021**, 92, 2156-2171	3	2
60	A Thermo-Compositional Model of the Cratonic Lithosphere of South America. *Geochemistry, Geophysics, Geosystems*, **2021**, 22, e2020GC009307	3.6	2
59	The Moho Discontinuity **2021**, 732-743		1
58	The Seismicity of Indonesia and Tectonic Implications. *Geochemistry, Geophysics, Geosystems*, **2021**, 22, e2021GC009812	3.6	3
57	Coulomb stress models for the 2019 Ridgecrest, California earthquake sequence. *Tectonophysics*, **2020**, 791, 228555	3.1	5
56	Crustal imaging of northern Harrat Rahat, Saudi Arabia, from ambient noise tomography. *Geophysical Journal International*, **2019**, 219, 1532-1549	2.6	2
55	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. *Journal of Asian Earth Sciences*, **2019**, 185, 104026	2.8	5
54	Interface inversion of gravitational data using spherical triangular tessellation: an application for the estimation of the Moon's crustal thickness. *Geophysical Journal International*, **2019**, 217, 703-713	2.6	5
53	Crustal P wave velocity structure beneath the SE margin of the Tibetan Plateau from Deep Seismic Sounding results. *Tectonophysics*, **2019**, 755, 109-126	3.1	2
52	Structure and Evolution of Continents and their Margins: A Global Synthesis. *Acta Geologica Sinica*, **2019**, 93, 96-97	0.7	1
51	Magnetotelluric evidence for asymmetric simple shear extension and lithospheric thinning in South China. *Acta Geologica Sinica*, **2019**, 93, 92-93	0.7	
50	Mantle-earthquake geothermometry of rejuvenated Proterozoic lithosphere, western Saudi Arabia. *Acta Geologica Sinica*, **2019**, 93, 102-103	0.7	
49	Crustal structure of the middle segment of the Qilian fold belt and the coupling mechanism of its associated basin and range system. *Tectonophysics*, **2019**, 770, 128154	3.1	11
48	Deep Structure of the Eastern Himalayan Collision Zone: Evidence for Underthrusting and Delamination in the Postcollisional Stage. *Tectonics*, **2019**, 38, 3614-3628	4.3	4
47	3-D Density, Thermal, and Compositional Model of the Antarctic Lithosphere and Implications for Its Evolution. *Geochemistry, Geophysics, Geosystems*, **2019**, 20, 688-707	3.6	17
46	Two-stage Red Sea rifting inferred from mantle earthquakes in Neoproterozoic lithosphere. *Earth and Planetary Science Letters*, **2018**, 497, 92-101	5.3	13
45	A Seismic Intensity Survey of the 1 April 2014 M 8.2 Iquique, Chile, Earthquake and Tsunami, and a Comparison with Strong-Motion Data. *Seismological Research Letters*, **2017**, 88, 1232-1240	3	4

44	Upper mantle velocity structure beneath the Arabian shield from Rayleigh surface wave tomography and its implications. *Journal of Geophysical Research: Solid Earth*, **2017**, 122, 6552-6568	3.6	15
43	Seismic velocity structure of the crust and shallow mantle of the Central and Eastern United States by seismic surface wave imaging. *Geophysical Research Letters*, **2016**, 43, 118-126	4.9	35
42	Cratonic root beneath North America shifted by basal drag from the convecting mantle. *Nature Geoscience*, **2015**, 8, 797-800	18.3	40
41	Variations of the lithospheric strength and elastic thickness in North America. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 2197-2220	3.6	37
40	Mantle origin of the Emeishan large igneous province (South China) from the analysis of residual gravity anomalies. *Lithos*, **2014**, 204, 4-13	2.9	25
39	Seismic structure of the Central US crust and shallow upper mantle: Uniqueness of the Reelfoot Rift. *Earth and Planetary Science Letters*, **2014**, 402, 157-166	5.3	45
38	NACr14: A 3D model for the crustal structure of the North American Continent. *Tectonophysics*, **2014**, 631, 65-86	3.1	26
37	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. *Geochemistry, Geophysics, Geosystems*, **2014**, 15, 4808-4830	3.6	29
36	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. *Geochemistry, Geophysics, Geosystems*, **2014**, 15, 4781-4807	3.6	34
35	Seismic structure of the crust and uppermost mantle of South America and surrounding oceanic basins. *Journal of South American Earth Sciences*, **2013**, 42, 260-276	2	77
34	Crustal Structure of the Northeastern Tibetan Plateau from the Southern Tarim Basin to the Sichuan Basin, China. *Tectonophysics*, **2013**, 584, 191-208	3.1	42
33	High resolution regional crustal models from irregularly distributed data: Application to Asia and adjacent areas. *Tectonophysics*, **2013**, 602, 55-68	3.1	60
32	Crustal structure of the central Qaidam basin imaged by seismic wide-angle reflection/refraction profiling. *Tectonophysics*, **2013**, 584, 174-190	3.1	25
31	Project Nare□o Iii: Refraction Observation Across a Leading Edge, Malpelo Island to the Colombian Cordillera Occidental. *Geophysical Monograph Series*, **2013**, 105-132	1.1	7
30	Crustal seismicity and the earthquake catalog maximum moment magnitude (Mcmax) in stable continental regions (SCRs): Correlation with the seismic velocity of the lithosphere. *Earth and Planetary Science Letters*, **2012**, 357-358, 78-83	5.3	58
29	Exploring the Earth□s Crust□History and Results of Controlled-Source Seismology **2012**,		20
28	The North American upper mantle: Density, composition, and evolution. *Journal of Geophysical Research*, **2010**, 115,		100
27	Poroelastic stress-triggering of the 2005 M8.7 Nias earthquake by the 2004 M9.2 Sumatra□Andaman earthquake. *Earth and Planetary Science Letters*, **2010**, 293, 289-299	5.3	61

26	Crustal structure across the Three Gorges area of the Yangtze platform, central China, from seismic refraction/wide-angle reflection data. *Tectonophysics*, **2009**, 475, 423-437	3.1	31
25	The 17 July 2006 Tsunami Earthquake in West Java, Indonesia. *Seismological Research Letters*, **2007**, 78, 201-207	3	29
24	Integrated geologic and geophysical studies of North American continental intraplate seismicity **2007**,		3
23	Two lithospheric profiles across southern California derived from gravity and seismic data. *Journal of Geodynamics*, **2007**, 43, 274-307	2.2	11
22	Crustal structure across the Altyn Tagh Range at the northern margin of the Tibetan Plateau and tectonic implications. *Earth and Planetary Science Letters*, **2006**, 241, 804-814	5.3	86
21	Crustal structure of the northeastern margin of the Tibetan plateau from the Songpan-Ganzi terrane to the Ordos basin. *Tectonophysics*, **2006**, 420, 253-266	3.1	135
20	Crustal structure of mainland China from deep seismic sounding data. *Tectonophysics*, **2006**, 420, 239-252	3.1	204
19	Simulation of active tectonic processes for a convecting mantle with moving continents. *Geophysical Journal International*, **2006**, 164, 611-623	2.6	11
18	An updated global earthquake catalogue for stable continental regions: reassessing the correlation with ancient rifts. *Geophysical Journal International*, **2005**, 161, 707-721	2.6	113
17	Shear wave velocity, seismic attenuation, and thermal structure of the continental upper mantle. *Geophysical Journal International*, **2004**, 157, 607-628	2.6	65
16	Crustal structure of the northern margin of the eastern Tien Shan, China, and its tectonic implications for the 1906 M~7.7 Manas earthquake. *Earth and Planetary Science Letters*, **2004**, 223, 187-202	5.3	39
15	Thermal and chemical variations in subcrustal cratonic lithosphere: evidence from crustal isostasy. *Lithos*, **2003**, 71, 185-193	2.9	24
14	The crustal structure from the Altai Mountains to the Altyn Tagh fault, northwest China. *Journal of Geophysical Research*, **2003**, 108,		57
13	Density of the continental roots: compositional and thermal contributions. *Earth and Planetary Science Letters*, **2003**, 209, 53-69	5.3	135
12	On the relations between cratonic lithosphere thickness, plate motions, and basal drag. *Tectonophysics*, **2002**, 358, 211-231	3.1	73
11	Density structure of the lithosphere in the southwestern United States and its tectonic significance. *Journal of Geophysical Research*, **2001**, 106, 721-739		33
10	Thermal thickness and evolution of Precambrian lithosphere: A global study. *Journal of Geophysical Research*, **2001**, 106, 16387-16414		602
9	Crustal structure of China from deep seismic sounding profiles. *Tectonophysics*, **1998**, 288, 105-113	3.1	128

8	Weakness of the lower continental crust: a condition for delamination, uplift, and escape. *Tectonophysics*, **1998**, 296, 47-60	3.1	175
7	CRUST 5.1: A global crustal model at 5°×5° *Journal of Geophysical Research*, **1998**, 103, 727-747		738
6	Composition of the crust in the Grenville and Appalachian Provinces of North America inferred from V P /V S ratios. *Journal of Geophysical Research*, **1997**, 102, 15225-15241		87
5	The structural and geochemical evolution of the continental crust: Support for the oceanic plateau model of continental growth. *Reviews of Geophysics*, **1995**, 33, 231	23.1	69
4	Seismic velocity structure and composition of the continental crust: A global view. *Journal of Geophysical Research*, **1995**, 100, 9761-9788		2015
3	Chapter 2: Seismic methods for determining earthquake source parameters and lithospheric structure. *Memoir of the Geological Society of America*, **1989**, 11-34		31
2	Crustal structure of southwestern Saudi Arabia. *Journal of Geophysical Research*, **1986**, 91, 6491		154
1	Field Insights and Analysis of the 2018 Mw 7.5 Palu, Indonesia Earthquake, Tsunami and Landslides. *Pure and Applied Geophysics*,1	2.2	2