

Walter D Mooney

List of Publications by Year in descending order

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65
papers

7,208
citations

109137

35
h-index

128067

60
g-index

71
all docs

71
docs citations

71
times ranked

4559
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismic velocity structure and composition of the continental crust: A global view. <i>Journal of Geophysical Research</i> , 1995, 100, 9761-9788.	3.3	2,409
2	CRUST 5.1: A global crustal model at 5°N–5°S. <i>Journal of Geophysical Research</i> , 1998, 103, 727-747.	3.3	905
3	Thermal thickness and evolution of Precambrian lithosphere: A global study. <i>Journal of Geophysical Research</i> , 2001, 106, 16387-16414.	3.3	729
4	Crustal structure of mainland China from deep seismic sounding data. <i>Tectonophysics</i> , 2006, 420, 239-252.	0.9	234
5	Weakness of the lower continental crust: a condition for delamination, uplift, and escape. <i>Tectonophysics</i> , 1998, 296, 47-60.	0.9	201
6	Crustal structure of southwestern Saudi Arabia. <i>Journal of Geophysical Research</i> , 1986, 91, 6491-6512.	3.3	176
7	Density of the continental roots: compositional and thermal contributions. <i>Earth and Planetary Science Letters</i> , 2003, 209, 53-69.	1.8	161
8	Crustal structure of the northeastern margin of the Tibetan plateau from the Songpan-Ganzi terrane to the Ordos basin. <i>Tectonophysics</i> , 2006, 420, 253-266.	0.9	159
9	An updated global earthquake catalogue for stable continental regions: reassessing the correlation with ancient rifts. <i>Geophysical Journal International</i> , 2005, 161, 707-721.	1.0	148
10	Crustal structure of China from deep seismic sounding profiles. <i>Tectonophysics</i> , 1998, 288, 105-113.	0.9	141
11	The North American upper mantle: Density, composition, and evolution. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	123
12	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> , 2006, 241, 804-814.	1.8	104
13	Composition of the crust in the Grenville and Appalachian Provinces of North America inferred from VP/VS ratios. <i>Journal of Geophysical Research</i> , 1997, 102, 15225-15241.	3.3	102
14	Seismic structure of the crust and uppermost mantle of South America and surrounding oceanic basins. <i>Journal of South American Earth Sciences</i> , 2013, 42, 260-276.	0.6	94
15	The structural and geochemical evolution of the continental crust: Support for the oceanic plateau model of continental growth. <i>Reviews of Geophysics</i> , 1995, 33, 231-242.	9.0	85
16	On the relations between cratonic lithosphere thickness, plate motions, and basal drag. <i>Tectonophysics</i> , 2002, 358, 211-231.	0.9	82
17	Crustal seismicity and the earthquake catalog maximum moment magnitude (M_{cmax}) in stable continental regions (SCRs): Correlation with the seismic velocity of the lithosphere. <i>Earth and Planetary Science Letters</i> , 2012, 357-358, 78-83.	1.8	80
18	Shear wave velocity, seismic attenuation, and thermal structure of the continental upper mantle. <i>Geophysical Journal International</i> , 2004, 157, 607-628.	1.0	79

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19	High resolution regional crustal models from irregularly distributed data: Application to Asia and adjacent areas. <i>Tectonophysics</i> , 2013, 602, 55-68.	0.9	77
20	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> , 2010, 293, 289-299.	1.8	69
21	The crustal structure from the Altai Mountains to the Altyn Tagh fault, northwest China. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	67
22	Crustal structure of the northern margin of the eastern Tien Shan, China, and its tectonic implications for the 1906 M7.7 Manas earthquake. <i>Earth and Planetary Science Letters</i> , 2004, 223, 187-202.	1.8	52
23	Seismic structure of the Central US crust and shallow upper mantle: Uniqueness of the Reelfoot Rift. <i>Earth and Planetary Science Letters</i> , 2014, 402, 157-166.	1.8	51
24	Crustal Structure of the Northeastern Tibetan Plateau from the Southern Tarim Basin to the Sichuan Basin, China. <i>Tectonophysics</i> , 2013, 584, 191-208.	0.9	50
25	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> , 2014, 15, 4781-4807.	1.0	50
26	Variations of the lithospheric strength and elastic thickness in North America. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2197-2220.	1.0	48
27	Cratonic root beneath North America shifted by basal drag from the convecting mantle. <i>Nature Geoscience</i> , 2015, 8, 797-800.	5.4	47
28	The 17 July 2006 Tsunami Earthquake in West Java, Indonesia. <i>Seismological Research Letters</i> , 2007, 78, 201-207.	0.8	46
29	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> , 2014, 15, 4808-4830.	1.0	45
30	NACr14: A 3D model for the crustal structure of the North American Continent. <i>Tectonophysics</i> , 2014, 631, 65-86.	0.9	42
31	Density structure of the lithosphere in the southwestern United States and its tectonic significance. <i>Journal of Geophysical Research</i> , 2001, 106, 721-739.	3.3	40
32	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> , 2016, 43, 118-126.	1.5	40
33	Chapter 2: Seismic methods for determining earthquake source parameters and lithospheric structure. <i>Memoir of the Geological Society of America</i> , 1989, , 11-34.	0.5	39
34	Mantle origin of the Emeishan large igneous province (South China) from the analysis of residual gravity anomalies. <i>Lithos</i> , 2014, 204, 4-13.	0.6	38
35	Crustal structure across the Three Gorges area of the Yangtze platform, central China, from seismic refraction/wide-angle reflection data. <i>Tectonophysics</i> , 2009, 475, 423-437.	0.9	35
36	Crustal structure of the central Qaidam basin imaged by seismic wide-angle reflection/refraction profiling. <i>Tectonophysics</i> , 2013, 584, 174-190.	0.9	33

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37	3D Density, Thermal, and Compositional Model of the Antarctic Lithosphere and Implications for Its Evolution. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 688-707.	1.0	30
38	Upper mantle velocity structure beneath the Arabian shield from Rayleigh surface wave tomography and its implications. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6552-6568.	1.4	28
39	Exploring the Earth's Crust—History and Results of Controlled-Source Seismology. , 2012, , .		28
40	Thermal and chemical variations in subcrustal cratonic lithosphere: evidence from crustal isostasy. <i>Lithos</i> , 2003, 71, 185-193.	0.6	27
41	The Seismicity of Indonesia and Tectonic Implications. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009812.	1.0	26
42	Two-stage Red Sea rifting inferred from mantle earthquakes in Neoproterozoic lithosphere. <i>Earth and Planetary Science Letters</i> , 2018, 497, 92-101.	1.8	21
43	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> , 2019, 770, 128154.	0.9	18
44	Simulation of active tectonic processes for a convecting mantle with moving continents. <i>Geophysical Journal International</i> , 2006, 164, 611-623.	1.0	12
45	Two lithospheric profiles across southern California derived from gravity and seismic data. <i>Journal of Geodynamics</i> , 2007, 43, 274-307.	0.7	12
46	Project Narani: Refraction Observation Across a Leading Edge, Malpelo Island to the Colombian Cordillera Occidental. <i>Geophysical Monograph Series</i> , 0, , 105-132.	0.1	11
47	Deep Structure of the Eastern Himalayan Collision Zone: Evidence for Underthrusting and Delamination in the Postcollisional Stage. <i>Tectonics</i> , 2019, 38, 3614-3628.	1.3	10
48	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> , 2019, 185, 104026.	1.0	10
49	Tsunami Occurrence 1900–2020: A Global Review, with Examples from Indonesia. <i>Pure and Applied Geophysics</i> , 2023, 180, 1549-1571.	0.8	10
50	Coulomb stress models for the 2019 Ridgecrest, California earthquake sequence. <i>Tectonophysics</i> , 2020, 791, 228555.	0.9	9
51	Regional Geophysics of the Caribbean and Northern South America: Implications for Tectonics. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	8
52	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> , 2019, 217, 703-713.	1.0	7
53	A Thermo–Compositional Model of the Cratonic Lithosphere of South America. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009307.	1.0	7
54	Crustal P wave velocity structure beneath the SE margin of the Tibetan Plateau from Deep Seismic Sounding results. <i>Tectonophysics</i> , 2019, 755, 109-126.	0.9	6

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55	Field Insights and Analysis of the 2018 Mw 7.5 Palu, Indonesia Earthquake, Tsunami and Landslides. <i>Pure and Applied Geophysics</i> , 2021, 178, 4891-4920.	0.8	6
56	Integrated geologic and geophysical studies of North American continental intraplate seismicity. , 2007, , .		5
57	A Seismic Intensity Survey of the 1 April 2014 M ^{8.2} Iquique, Chile, Earthquake and Tsunami, and a Comparison with Strong-Motion Data. <i>Seismological Research Letters</i> , 2017, 88, 1232-1240.	0.8	5
58	Shear-Wave Velocity Structure Beneath Northeast China From Joint Inversion of Receiver Functions and Rayleigh Wave Phase Velocities: Implications for Intraplate Volcanism. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	5
59	A Seismic Intensity Survey of the 16 April 2016 M ^{7.8} Pedernales, Ecuador, Earthquake: A Comparison with Strong-Motion Data and Teleseismic Backprojection. <i>Seismological Research Letters</i> , 2021, 92, 2156-2171.	0.8	4
60	A Thermo-Compositional Model of the African Cratonic Lithosphere. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	4
61	The Moho Discontinuity. , 2021, , 732-743.		3
62	Crustal imaging of northern Harrat Rahat, Saudi Arabia, from ambient noise tomography. <i>Geophysical Journal International</i> , 2019, 219, 1532-1549.	1.0	2
63	Magnetotelluric evidence for asymmetric simple shear extension and lithospheric thinning in South China. <i>Acta Geologica Sinica</i> , 2019, 93, 92-93.	0.8	1
64	Structure and Evolution of Continents and their Margins: A Global Synthesis. <i>Acta Geologica Sinica</i> , 2019, 93, 96-97.	0.8	1
65	Mantle-earthquake geothermometry of rejuvenated Proterozoic lithosphere, western Saudi Arabia. <i>Acta Geologica Sinica</i> , 2019, 93, 102-103.	0.8	0