Robert Moucha

List of Publications by Year
in descending order

23 papers	1,540 citations	516710 16 h-index	642732 23 g-index
26 all docs	26 docs citations	26 times ranked	1996 citing authors

#	Article	IF	Citations
1	Deformation in response to landscape evolution during glacial cycles on the U.S. Atlantic passive margin. Earth and Planetary Science Letters, 2019, 526, 115759.	4.4	4
2	The role of isostatic adjustment and gravitational effects on the dynamics of the Messinian salinity crisis. Earth and Planetary Science Letters, 2019, 525, 115760.	4.4	5
3	Sampling the volatile-rich transition zone beneath Bermuda. Nature, 2019, 569, 398-403.	27.8	60
4	Drought-induced recharge promotes long-term storage of porewater salinity beneath a prairie wetland. Journal of Hydrology, 2018, 557, 391-406.	5.4	10
5	Effects of Dynamic Topography on the Cenozoic Carbonate Compensation Depth. Geochemistry, Geophysics, Geosystems, 2018, 19, 1025-1034.	2.5	23
6	Insights from North America's failed Midcontinent Rift into the evolution of continental rifts and passive continental margins. Tectonophysics, 2018, 744, 403-421.	2.2	49
7	Regional landscape response to thrust belt dynamics: The Iglesia basin, Argentina. Basin Research, 2018, 30, 1141-1154.	2.7	8
8	Interplay between dynamic topography and flexure along the U.S. Atlantic passive margin: Insights from landscape evolution modeling. Global and Planetary Change, 2017, 149, 72-78.	3.5	32
9	The PRISM4 (mid-Piacenzian) paleoenvironmental reconstruction. Climate of the Past, 2016, 12, 1519-1538.	3.4	143
10	Southwestward weakening of Wyoming lithosphere during the Laramide orogeny. Journal of Geophysical Research: Solid Earth, 2016, 121, 6219-6234.	3.4	7
11	Kinematics and dynamics of the East Pacific Rise linked to a stable, deep-mantle upwelling. Science Advances, 2016, 2, e1601107.	10.3	30
12	Landscape response to changes in dynamic topography. Terra Nova, 2016, 28, 289-296.	2.1	17
13	Isostatic and dynamic support of high topography on a North Atlantic passive margin. Earth and Planetary Science Letters, 2016, 446, 1-9.	4.4	27
14	The impact of dynamic topography change on Antarctic ice sheet stability during the mid-Pliocene warm period. Geology, 2015, 43, 927-930.	4.4	70
15	Dynamic Topography Change of the Eastern United States Since 3 Million Years Ago. Science, 2013, 340, 1560-1563.	12.6	153
16	Changes in African topography driven by mantle convection. Nature Geoscience, 2011, 4, 707-712.	12.9	216
17	Joint seismicâ€"geodynamic-mineral physical modelling of African geodynamics: A reconciliation of deep-mantle convection with surface geophysical constraints. Earth and Planetary Science Letters, 2010, 295, 329-341.	4.4	184
18	Deep mantle forces and the uplift of the Colorado Plateau. Geophysical Research Letters, 2009, 36, .	4.0	93

#	Article	IF	Citations
19	Dynamic topography and long-term sea-level variations: There is no such thing as a stable continental platform. Earth and Planetary Science Letters, 2008, 271, 101-108.	4.4	267
20	Mantle convection and the recent evolution of the Colorado Plateau and the Rio Grande Rift valley. Geology, 2008, 36, 439.	4.4	82
21	GIA-induced secular variations in the Earth's long wavelength gravity field: Influence of 3-D viscosity variations. Earth and Planetary Science Letters, 2005, 240, 322-327.	4.4	9
22	Influence of lithospheric thickness variations on 3-D crustal velocities due to glacial isostatic adjustment. Geophysical Research Letters, 2005, 32, .	4.0	40
23	An accurate and robust multigrid algorithm for 2D forward resistivity modelling. Geophysical Prospecting, 2004, 52, 197-212.	1.9	11