

Allen K Mcnamara

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

3,570
citations

147566

31
h-index

288905

40
g-index

45
all docs

45
docs citations

45
times ranked

1652
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolving morphology of crustal accumulations in Earth's lowermost mantle. <i>Earth and Planetary Science Letters</i> , 2022, 577, 117265.	1.8	9
2	Mobile mantle could explain volcanic hotspot locations. <i>Nature</i> , 2022, 603, 796-797.	13.7	0
3	Earth's Structure, Lower Mantle. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 176-183.	0.1	0
4	Earth's Lower Mantle, Structure. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-8.	0.1	0
5	Earth's Structure, Lower Mantle. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-8.	0.1	1
6	Dynamical investigation of a thickening ice-shell: Implications for the icy moon Europa. <i>Icarus</i> , 2019, 329, 251-269.	1.1	20
7	A review of large low shear velocity provinces and ultra low velocity zones. <i>Tectonophysics</i> , 2019, 760, 199-220.	0.9	116
8	The influence of deep mantle compositional heterogeneity on Earth's thermal evolution. <i>Earth and Planetary Science Letters</i> , 2018, 500, 86-96.	1.8	19
9	Intermittent and lateral varying ULVZ structure at the northeastern margin of the Pacific LLSVP. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 1198-1220.	1.4	24
10	Compositionally-distinct ultra-low velocity zones on Earth's core-mantle boundary. <i>Nature Communications</i> , 2017, 8, 177.	5.8	45
11	Continent-sized anomalous zones with low seismic velocity at the base of Earth's mantle. <i>Nature Geoscience</i> , 2016, 9, 481-489.	5.4	279
12	Material transport across Europa's ice shell. <i>Geophysical Research Letters</i> , 2015, 42, 4288-4293.	1.5	17
13	Episodic entrainment of deep primordial mantle material into ocean island basalts. <i>Nature Communications</i> , 2015, 6, 8937.	5.8	32
14	Seismic evidence for a chemically distinct thermochemical reservoir in Earth's deep mantle beneath Hawaii. <i>Earth and Planetary Science Letters</i> , 2015, 426, 143-153.	1.8	29
15	Chemical complexity of hotspots caused by cycling oceanic crust through mantle reservoirs. <i>Nature Geoscience</i> , 2014, 7, 366-370.	5.4	130
16	Synthetic seismic anisotropy models within a slab impinging on the core-mantle boundary. <i>Geophysical Journal International</i> , 2014, 199, 164-177.	1.0	34
17	Mega ultra low velocity zone and mantle flow. <i>Earth and Planetary Science Letters</i> , 2013, 364, 59-67.	1.8	90
18	The difficulty for subducted oceanic crust to accumulate at the Earth's core-mantle boundary. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1807-1816.	1.4	60

#	ARTICLE	IF	CITATIONS
19	Deformation in the lowermost mantle: From polycrystal plasticity to seismic anisotropy. <i>Earth and Planetary Science Letters</i> , 2011, 306, 33-45.	1.8	54
20	Core-mantle boundary topography as a possible constraint on lower mantle chemistry and dynamics. <i>Earth and Planetary Science Letters</i> , 2010, 289, 232-241.	1.8	60
21	Deep mantle plumes and convective upwelling beneath the Pacific Ocean. <i>Earth and Planetary Science Letters</i> , 2010, 294, 143-151.	1.8	33
22	Tracking deep mantle reservoirs with ultra-low velocity zones. <i>Earth and Planetary Science Letters</i> , 2010, 299, 1-9.	1.8	187
23	Global scale models of the mantle flow field predicted by synthetic tomography models. <i>Physics of the Earth and Planetary Interiors</i> , 2010, 182, 129-138.	0.7	27
24	Supercontinent formation from stochastic collision and mantle convection models. <i>Gondwana Research</i> , 2009, 15, 267-275.	3.0	46
25	Synthetic tomography of plume clusters and thermochemical piles. <i>Earth and Planetary Science Letters</i> , 2009, 278, 152-162.	1.8	107
26	A benchmark study on mantle convection in a 3D spherical shell using CitcomS. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	254
27	Structure and Dynamics of Earth's Lower Mantle. <i>Science</i> , 2008, 320, 626-628.	6.0	356
28	Deformation of (Mg,Fe)SiO ₃ Post-Perovskite and D'' Anisotropy. <i>Science</i> , 2007, 316, 1729-1732.	6.0	139
29	Implications of lower-mantle structural heterogeneity for the existence and nature of whole-mantle plumes. , 2007, , 79-101.		30
30	Influence of thermochemical piles on topography at Earth's core-mantle boundary. <i>Earth and Planetary Science Letters</i> , 2007, 261, 443-455.	1.8	38
31	Tomographic filtering of geodynamic models: Implications for model interpretation and large-scale mantle structure. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	77
32	Fine-Scale Ultra-Low Velocity Zone Layering at the Core-Mantle Boundary and Superplumes. , 2007, , 139-158.		10
33	A strong lateral shear velocity gradient and anisotropy heterogeneity in the lowermost mantle beneath the southern Pacific. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	50
34	Modeling lower mantle anisotropy development in a subducting slab. <i>Earth and Planetary Science Letters</i> , 2006, 245, 302-314.	1.8	57
35	Thermochemical structures beneath Africa and the Pacific Ocean. <i>Nature</i> , 2005, 437, 1136-1139.	13.7	394
36	Degree-one mantle convection: Dependence on internal heating and temperature-dependent rheology. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	49

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37	The anisotropic and rheological structure of the oceanic upper mantle from a simple model of plate shear. <i>Geophysical Journal International</i> , 2004, 158, 287-296.	1.0	50
38	Thermochemical structures within a spherical mantle: Superplumes or piles?. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	210
39	The influence of thermochemical convection on the fixity of mantle plumes. <i>Earth and Planetary Science Letters</i> , 2004, 222, 485-500.	1.8	51
40	Development of finite strain in the convecting lower mantle and its implications for seismic anisotropy. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	52
41	Development of anisotropic structure in the Earth's lower mantle by solid-state convection. <i>Nature</i> , 2002, 416, 310-314.	13.7	137
42	Localization of dislocation creep in the lower mantle: implications for the origin of seismic anisotropy. <i>Earth and Planetary Science Letters</i> , 2001, 191, 85-99.	1.8	82
43	West African proximity of the Avalon terrane in the latest Precambrian. <i>Bulletin of the Geological Society of America</i> , 2001, 113, 1161-1170.	1.6	59
44	Cooling of the Earth: A parameterized convection study of whole versus layered models. <i>Geochemistry, Geophysics, Geosystems</i> , 2000, 1, n/a-n/a.	1.0	51