

Dave R Stegman

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

2,840
citations

257450

24
h-index

395702

33
g-index

35
all docs

35
docs citations

35
times ranked

2210
citing authors

#	ARTICLE	IF	CITATIONS
1	The convergence history of India-Eurasia records multiple subduction dynamics processes. <i>Science Advances</i> , 2020, 6, eaaz8681.	10.3	68
2	The influence of spreading rate and permeability on melt focusing beneath mid-ocean ridges. <i>Physics of the Earth and Planetary Interiors</i> , 2020, 304, 106486.	1.9	28
3	Thermal and magnetic evolution of a crystallizing basal magma ocean in Earth's mantle. <i>Earth and Planetary Science Letters</i> , 2020, 534, 116085.	4.4	13
4	Formation and Stability of Same-Depth Double Subduction Systems. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 7387-7412.	3.4	16
5	Western U.S. seismic anisotropy revealing complex mantle dynamics. <i>Earth and Planetary Science Letters</i> , 2018, 500, 156-167.	4.4	33
6	The subduction dichotomy of strong plates and weak slabs. <i>Solid Earth</i> , 2017, 8, 339-350.	2.8	10
7	Influence of continental growth on mid-ocean ridge depth. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4425-4437.	2.5	5
8	A regime diagram of mobile lid convection with plate-like behavior. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 241, 65-76.	1.9	6
9	Plume-slab interaction: The Samoa-Tonga system. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 232, 1-14.	1.9	49
10	The strength of gravitational core-mantle coupling. <i>Geophysical Research Letters</i> , 2014, 41, 3786-3792.	4.0	38
11	A geochemical evaluation of potential magma ocean dynamics using a parameterized model for perovskite crystallization. <i>Earth and Planetary Science Letters</i> , 2014, 392, 154-165.	4.4	11
12	Bifurcation of the Yellowstone plume driven by subduction-induced mantle flow. <i>Nature Geoscience</i> , 2013, 6, 395-399.	12.9	66
13	Implications of a long-lived basal magma ocean in generating Earth's ancient magnetic field. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4735-4742.	2.5	53
14	Origin of Columbia River flood basalt controlled by propagating rupture of the Farallon slab. <i>Nature</i> , 2012, 482, 386-389.	27.8	123
15	Influence of lateral slab edge distance on plate velocity, trench velocity, and subduction partitioning. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	55
16	Indian and African plate motions driven by the push force of the Réunion plume head. <i>Nature</i> , 2011, 475, 47-52.	27.8	242
17	Subduction dynamics and the origin of Andean orogeny and the Bolivian orocline. <i>Nature</i> , 2011, 480, 83-86.	27.8	152
18	Segmentation of the Farallon slab. <i>Earth and Planetary Science Letters</i> , 2011, 311, 1-10.	4.4	108

#	ARTICLE	IF	CITATIONS
19	Cenozoic Tectonics of Western North America Controlled by Evolving Width of Farallon Slab. <i>Science</i> , 2010, 329, 316-319.	12.6	81
20	Mechanism for generating stagnant slabs in 3-D spherical mantle convection models at Earth-like conditions. <i>Physics of the Earth and Planetary Interiors</i> , 2010, 183, 341-352.	1.9	21
21	Upper plate controls on deep subduction, trench migrations and deformations at convergent margins. <i>Tectonophysics</i> , 2010, 483, 80-92.	2.2	126
22	Competing influences of plate width and far-field boundary conditions on trench migration and morphology of subducted slabs in the upper mantle. <i>Tectonophysics</i> , 2010, 483, 46-57.	2.2	58
23	A regime diagram for subduction styles from 3-D numerical models of free subduction. <i>Tectonophysics</i> , 2010, 483, 29-45.	2.2	149
24	Interactions of 3D mantle flow and continental lithosphere near passive margins. <i>Tectonophysics</i> , 2010, 483, 20-28.	2.2	39
25	Origin of ice diapirism, true polar wander, subsurface ocean, and tiger stripes of Enceladus driven by compositional convection. <i>Icarus</i> , 2009, 202, 669-680.	2.5	21
26	Mantle Dynamics – A Case Study. <i>Lecture Notes in Earth Sciences</i> , 2009, , 139-181.	0.5	0
27	Global trench migration velocities and slab migration induced upper mantle volume fluxes: Constraints to find an Earth reference frame based on minimizing viscous dissipation. <i>Earth-Science Reviews</i> , 2008, 88, 118-144.	9.1	167
28	Episodicity in back-arc tectonic regimes. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 171, 265-279.	1.9	79
29	A model comparison study of large-scale mantle–lithosphere dynamics driven by subduction. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 171, 224-234.	1.9	43
30	Evolution and diversity of subduction zones controlled by slab width. <i>Nature</i> , 2007, 446, 308-311.	27.8	494
31	Influence of trench width on subduction hinge retreat rates in 3-D models of slab rollback. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	276
32	Stirring in 3-d spherical models of convection in the Earth's mantle. <i>Philosophical Magazine</i> , 2006, 86, 3175-3204.	1.6	6
33	An early lunar core dynamo driven by thermochemical mantle convection. <i>Nature</i> , 2003, 421, 143-146.	27.8	177
34	Effects of depth-dependent viscosity and plate motions on maintaining a relatively uniform mid-ocean ridge basalt reservoir in whole mantle flow. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 5-1.	3.3	25