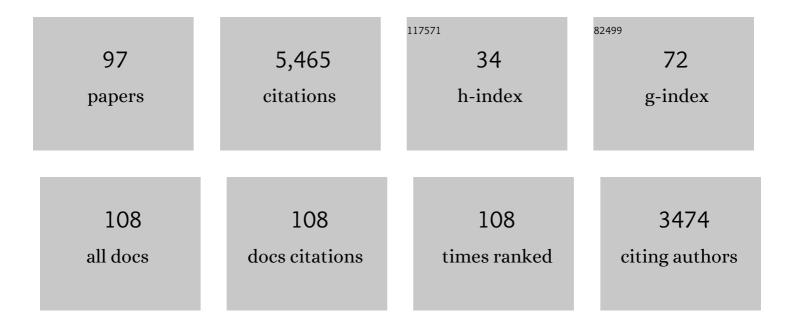
Scott D King

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Dynamics of the North American Plate: Largeâ€Scale Driving Mechanism From Farâ€Field Slabs and the Interpretation of Shallow Negative Seismic Anomalies. Geochemistry, Geophysics, Geosystems, 2022, 23,	1.0	5
2	Volcanic Activity on Venus: How Long Must We Look to Find a Smoking Gun?. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	2
3	InSight Constraints on the Global Character of the Martian Crust. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	45
4	Ceres' Broad‧cale Surface Geomorphology Largely Due To Asymmetric Internal Convection. AGU Advances, 2022, 3, .	2.3	2
5	Analyzing Low Frequency Seismic Events at Cerberus Fossae as Long Period Volcanic Quakes. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006518.	1.5	19
6	Thermal Conductivity of the Martian Soil at the InSight Landing Site From HP ³ Active Heating Experiments. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006861.	1.5	23
7	Evaluating Models for Lithospheric Loss and Intraplate Volcanism Beneath the Central Appalachian Mountains. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022571.	1.4	9
8	The seismicity of Mars. Nature Geoscience, 2020, 13, 205-212.	5.4	194
9	Do impacts impact global tectonics?. Geology, 2020, 48, 205-206.	2.0	1
10	Initial results from the InSight mission on Mars. Nature Geoscience, 2020, 13, 183-189.	5.4	274
11	Dome formation on Ceres by solid-state flow analogous to terrestrial salt tectonics. Nature Geoscience, 2019, 12, 797-801.	5.4	16
12	A benchmark study of incompressible Stokes flow in a 3-D spherical shell using ASPECT. Geophysical Journal International, 2019, 217, 650-667.	1.0	12
13	Seismic imaging of mid-crustal structure beneath central and eastern North America: Possibly the elusive Grenville deformation?. Geology, 2019, 47, 371-374.	2.0	23
14	Mathematics of the Not-So-Solid Solid Earth. Mathematics of Planet Earth, 2019, , 35-54.	0.1	0
15	Ceres internal structure from geophysical constraints. Meteoritics and Planetary Science, 2018, 53, 1999-2007.	0.7	19
16	Venus Resurfacing Constrained by Geoid and Topography. Journal of Geophysical Research E: Planets, 2018, 123, 1041-1060.	1.5	21
17	Pyroxenite causes fat plumes and stagnant slabs. Geophysical Research Letters, 2017, 44, 4730-4737.	1.5	6
18	Evidence for the Interior Evolution of Ceres from Geologic Analysis of Fractures. Geophysical Research Letters, 2017, 44, 9564-9572.	1.5	31

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19	The interior structure of Ceres as revealed by surface topography. Earth and Planetary Science Letters, 2017, 476, 153-164.	1.8	117
20	Reconciling laboratory and observational models of mantle rheology in geodynamic modelling. Journal of Geodynamics, 2016, 100, 33-50.	0.7	33
21	Geodynamic investigation of a Cretaceous superplume in the Pacific ocean. Physics of the Earth and Planetary Interiors, 2016, 257, 137-148.	0.7	2
22	Dawn arrives at Ceres: Exploration of a small, volatile-rich world. Science, 2016, 353, 1008-1010.	6.0	178
23	An evolving view of transition zone and midmantle viscosity. Geochemistry, Geophysics, Geosystems, 2016, 17, 1234-1237.	1.0	28
24	Composition and structure of the shallow subsurface of Ceres revealed by craterÂmorphology. Nature Geoscience, 2016, 9, 538-542.	5.4	118
25	Mantle convection, the asthenosphere, and Earth's thermal history. Special Paper of the Geological Society of America, 2015, , 87-103.	0.5	1
26	Why cold slabs stagnate in the transition zone. Geology, 2015, 43, 231-234.	2.0	88
27	Variation of the subsidence parameters, effective thermal conductivity, and mantle dynamics. Earth and Planetary Science Letters, 2015, 426, 130-142.	1.8	9
28	Dynamics of Subducting Slabs: Numerical Modeling and Constraints from Seismology, Geoid, Topography, Geochemistry, and Petrology. , 2015, , 339-391.		10
29	Geophysical evidence supports migration of Tharsis volcanism on Mars. Journal of Geophysical Research E: Planets, 2014, 119, 1078-1085.	1.5	10
30	Mixing at mid-ocean ridges controlled by small-scale convection and plate motion. Nature Geoscience, 2014, 7, 602-605.	5.4	12
31	Wada Receives 2013 Jason Morgan Early Career Award: Citation. Eos, 2014, 95, 290-291.	0.1	0
32	Driving the Earth machine?. Science, 2014, 346, 1184-1185.	6.0	11
33	3D spherical models of Martian mantle convection constrained by melting history. Earth and Planetary Science Letters, 2014, 388, 27-37.	1.8	22
34	Hotspot swells revisited. Physics of the Earth and Planetary Interiors, 2014, 235, 66-83.	0.7	88
35	Models of Mantle Viscosity. AGU Reference Shelf, 2013, , 227-236.	0.6	79
36	Anomalously thin transition zone and apparently isotropic upper mantle beneath Bermuda: Evidence for upwelling. Geochemistry, Geophysics, Geosystems, 2013, 14, 4282-4291.	1.0	18

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37	Growing Understanding of Subduction Dynamics Indicates Need to Rethink Seismic Hazards. Eos, 2013, 94, 125-126.	0.1	4
38	The influence of plate boundary motion on planform in viscously stratified mantle convection models. Journal of Geophysical Research, 2011, 116, .	3.3	7
39	Dynamic buckling of subducting slabs reconciles geological and geophysical observations. Earth and Planetary Science Letters, 2011, 312, 360-370.	1.8	82
40	Eruptions above mantle shear. Nature Geoscience, 2011, 4, 279-280.	5.4	3
41	A community benchmark for 2-D Cartesian compressible convection in the Earth's mantle. Geophysical Journal International, 2010, 180, 73-87.	1.0	89
42	Why are high-Mg# andesites widespread in the western Aleutians? A numerical model approach. Geology, 2010, 38, 583-586.	2.0	22
43	Upper mantle anisotropy and transition zone thickness beneath southeastern North America and implications for mantle dynamics. Geochemistry, Geophysics, Geosystems, 2010, 11, .	1.0	26
44	Effect of mantle compressibility on the thermal and flow structures of the subduction zones. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	37
45	On topography and geoid from 2â€Ð stagnant lid convection calculations. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	27
46	Slab sliding away. Nature, 2008, 451, 899-900.	13.7	0
47	Pattern of lobate scarps on Mercury's surface reproduced by a model of mantleÂconvection. Nature Geoscience, 2008, 1, 229-232.	5.4	47
48	A community benchmark for subduction zone modeling. Physics of the Earth and Planetary Interiors, 2008, 171, 187-197.	0.7	187
49	The structure of thermal plumes and geophysical observations. , 2007, , 103-120.		2
50	Hotspots and edge-driven convection. Geology, 2007, 35, 223.	2.0	90
51	Does mantle convection currently exist on Mercury?. Physics of the Earth and Planetary Interiors, 2007, 164, 221-231.	0.7	33
52	Mantle Downwellings and the Fate of Subducting Slabs: Constraints from Seismology, Geoid Topography, Geochemistry, and Petrology. , 2007, , 325-370.		8
53	North Atlantic topographic and geoid anomalies: The result of a narrow ocean basin and cratonic roots?. , 2005, , .		6
54	Archean cratons and mantle dynamics. Earth and Planetary Science Letters, 2005, 234, 1-14.	1.8	125

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55	Mantle convection with reversing mobile plates: A benchmark study. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	1.0	33
56	Steady plumes in viscously stratified, vigorously convecting, three-dimensional numerical mantle convection models with mobile plates. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	1.0	38
57	A numerical study of a mantle plume beneath the Tharsis Rise: Reconciling dynamic uplift and lithospheric support models. Journal of Geophysical Research, 2004, 109, .	3.3	21
58	The role of the heating mode of the mantle in intermittent reorganization of the plate velocity field. Geophysical Journal International, 2003, 152, 455-467.	1.0	32
59	Testing the tracer ratio method for modeling active compositional fields in mantle convection simulations. Geochemistry, Geophysics, Geosystems, 2003, 4, .	1.0	175
60	Oblique convergence between India and Eurasia. Journal of Geophysical Research, 2002, 107, ETG 3-1.	3.3	9
61	Episodic tectonic plate reorganizations driven by mantle convection. Earth and Planetary Science Letters, 2002, 203, 83-91.	1.8	70
62	Post-rift deformation of the Midcontinent rift under Grenville tectonism. Tectonophysics, 2002, 359, 209-223.	0.9	4
63	Geoid and topography over subduction zones: The effect of phase transformations. Journal of Geophysical Research, 2002, 107, ETG 2-1-ETP 2-10.	3.3	18
64	Subduction zones: observations and geodynamic models. Physics of the Earth and Planetary Interiors, 2001, 127, 9-24.	0.7	66
65	The influence of tectonic plates on mantle convection patterns, temperature and heat flow. Geophysical Journal International, 2001, 146, 619-636.	1.0	57
66	African Hot Spot Volcanism: Small-Scale Convection in the Upper Mantle Beneath Cratons. Science, 2000, 290, 1137-1140.	6.0	327
67	A modified beam analysis effect of lateral forces on lithospheric flexure and its implication for post-rift evolution of the Midcontinent Rift system. Tectonophysics, 1999, 306, 149-162.	0.9	2
68	A study of local time and longitudinal variability of the amplitude of the equatorial electrojet observed in POGO satellite data. Earth, Planets and Space, 1999, 51, 373-381.	0.9	10
69	The influence of temperature and depth dependent viscosity on geoid and topography profiles from models of mantle convection. Physics of the Earth and Planetary Interiors, 1998, 106, 75-92.	0.7	33
70	Edge-driven convection. Earth and Planetary Science Letters, 1998, 160, 289-296.	1.8	536
71	The influence of thermodynamic formulation on simulations of subduction zone geometry and history. Geophysical Research Letters, 1998, 25, 1463-1466.	1.5	40
72	Geoid and topographic swells over temperature-dependent thermal plumes in spherical-axisymmetric geometry. Geophysical Research Letters, 1997, 24, 3093-3096.	1.5	11

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73	A comparison of methods for the modeling of thermochemical convection. Journal of Geophysical Research, 1997, 102, 22477-22495.	3.3	239
74	Using eigenfunctions of the two-point correlation function to study convection with multiple phase transformations. Geophysical Research Letters, 1997, 24, 703-706.	1.5	4
75	The effect of temperature dependent viscosity on the structure of new plumes in the mantle: Results of a finite element model in a spherical, axisymmetric shell. Earth and Planetary Science Letters, 1997, 148, 13-26.	1.8	50
76	Radial models of mantle viscosity: results from a genetic algorithm. Geophysical Journal International, 1995, 122, 725-734.	1.0	83
77	Subduction and volatile recycling in earthâ \in Ms mantle. AIP Conference Proceedings, 1995, , .	0.3	1
78	The viscosity structure of the mantle. Reviews of Geophysics, 1995, 33, 11.	9.0	38
79	An alternative mechanism of flood basalt formation. Earth and Planetary Science Letters, 1995, 136, 269-279.	1.8	271
80	A numerical journey to the Earth's interior. IEEE Computational Science and Engineering, 1995, 2, 12-23.	0.6	2
81	Effect of slab rheology on mass transport across a phase transition boundary. Journal of Geophysical Research, 1995, 100, 20211-20222.	3.3	31
82	A non-linear, two-dimensional, potential-based analysis of coupled heat and mass transfer in a porous medium. International Journal for Numerical Methods in Engineering, 1994, 37, 3707-3722.	1.5	22
83	Computing in the geosciences kindles interdisciplinary discussion. Eos, 1994, 75, 546.	0.1	0
84	Sensitivity of convection with an endothermic phase change to the form of governing equations, initial conditions, boundary conditions, and equation of state. Journal of Geophysical Research, 1994, 99, 15919.	3.3	89
85	Introduction to the Special Section on the Transition Zone. Journal of Geophysical Research, 1994, 99, 15779.	3.3	2
86	Subducted slabs and the geoid: 1. Numerical experiments with temperature-dependent viscosity. Journal of Geophysical Research, 1994, 99, 19843-19852.	3.3	58
87	The application of a numerical model of heat and mass transfer in unsaturated soil to the simulation of laboratory-based experiments. Communications in Numerical Methods in Engineering, 1993, 9, 91-102.	1.3	1
88	Seeing the mantle in the round. Nature, 1993, 361, 688-689.	13.7	0
89	Effect of mantle plumes on the growth of D―by reaction between the core and mantle. Geophysical Research Letters, 1993, 20, 379-382.	1.5	78
90	An inversion for radial viscosity structure using seismic tomography. Geophysical Research Letters, 1992, 19, 1551-1554.	1.5	187

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91	Ultrafast subduction: the key to slab recycling efficiency and mantle differentiation?. Earth and Planetary Science Letters, 1992, 109, 517-530.	1.8	62
92	Models of convection-driven tectonic plates: a comparison of methods and results. Geophysical Journal International, 1992, 109, 481-487.	1.0	89
93	Coupled heat and mass transfer in unsaturated soil—a potential-based solution. International Journal for Numerical and Analytical Methods in Geomechanics, 1992, 16, 757-773.	1.7	15
94	The relationship between plate velocity and trench viscosity in Newtonian and power″aw subduction calculations. Geophysical Research Letters, 1990, 17, 2409-2412.	1.5	99
95	Conman: vectorizing a finite element code for incompressible two-dimensional convection in the Earth's mantle. Physics of the Earth and Planetary Interiors, 1990, 59, 195-207.	0.7	171
96	Coupling of mantle temperature anomalies and the flow pattern in the core: interpretation based on simple convection calculations. Physics of the Earth and Planetary Interiors, 1989, 58, 118-125.	0.7	3
97	Formulation of ice shelf dynamic boundary conditions in terms of a Coulomb rheology. Journal of Geophysical Research, 1986, 91, 8177-8191.	3.3	31