Yoshida Masaki

List of Publications by Year
in descending order

53 papers	1,134 citations	331670 21 h-index	414414 32 g-index
56 all docs	56 docs citations	56 times ranked	803 citing authors

#	Article	IF	Citations
1	Supercontinents, mantle dynamics and plate tectonics: A perspective based on conceptual vs. numerical models. Earth-Science Reviews, 2011, 105, 1-24.	9.1	109
2	Preliminary three-dimensional model of mantle convection with deformable, mobile continental lithosphere. Earth and Planetary Science Letters, 2010, 295, 205-218.	4.4	63
3	Application of the Yin-Yang grid to a thermal convection of a Boussinesq fluid with infinite Prandtl number in a three-dimensional spherical shell. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	60
4	Mantle convection with longestâ€wavelength thermal heterogeneity in a 3â€D spherical model: Degree one or two?. Geophysical Research Letters, 2008, 35, .	4.0	52
5	Low-degree mantle convection with strongly temperature- and depth-dependent viscosity in a three-dimensional spherical shell. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	45
6	Generation of plumes under a localized high viscosity lid in 3-D spherical shell convection. Geophysical Research Letters, 1999, 26, 947-950.	4.0	44
7	Dynamic role of the rheological contrast between cratonic and oceanic lithospheres in the longevity of cratonic lithosphere: A three-dimensional numerical study. Tectonophysics, 2012, 532-535, 156-166.	2.2	40
8	Coreâ€mantle boundary topography estimated from numerical simulations of instantaneous mantle flow. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	38
9	Mantle temperature under drifting deformable continents during the supercontinent cycle. Geophysical Research Letters, 2013, 40, 681-686.	4.0	37
10	Pangea breakup and northward drift of the Indian subcontinent reproduced by a numerical model of mantle convection. Scientific Reports, 2015, 5, 8407.	3.3	33
11	The timescales of plume generation caused by continental aggregation. Earth and Planetary Science Letters, 2000, 176, 31-43.	4.4	31
12	Effects on the long-wavelength geoid anomaly of lateral viscosity variations caused by stiff subducting slabs, weak plate margins and lower mantle rheology. Physics of the Earth and Planetary Interiors, 2009, 172, 278-288.	1.9	31
13	Energetics of the Solid Earth: An integrated perspective. Energy Geoscience, 2020, 1, 28-35.	2.9	31
14	South Pacific hotspot swells dynamically supported by mantle flows. Geophysical Research Letters, 2010, 37, .	4.0	30
15	Trench dynamics: Effects of dynamically migrating trench on subducting slab morphology and characteristics of subduction zones systems. Physics of the Earth and Planetary Interiors, 2017, 268, 35-53.	1.9	29
16	Geodynamic modeling of the South Pacific superswell. Physics of the Earth and Planetary Interiors, 2014, 229, 24-39.	1.9	28
17	Where and why do large shallow intraslab earthquakes occur?. Physics of the Earth and Planetary Interiors, 2004, 141, 183-206.	1.9	27
18	Temporal evolution of the stress state in a supercontinent during mantle reorganization. Geophysical Journal International, 2010, 180, 1-22.	2.4	27

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19	Geodynamo and mantle convection simulations on the Earth Simulator using the Yin-Yang grid. Journal of Physics: Conference Series, 2005, 16, 325-338.	0.4	26
20	Formation of a future supercontinent through plate motionâ€“driven flow coupled with mantle downwelling flow. Geology, 2016, 44, 755-758.	4.4	24
21	Mantle dynamics and characteristics of the Azores plateau. Earth and Planetary Science Letters, 2013, 362, 258-271.	4.4	23
22	Voyage of the Indian subcontinent since Pangea breakup and driving force of supercontinent cycles: Insights on dynamics from numerical modeling. Geoscience Frontiers, 2018, 9, 1279-1292.	8.4	22
23	Future supercontinent assembled in the northern hemisphere. Terra Nova, 2011, 23, 333-338.	2.1	21
24	Numerical simulation for the prediction of the plate motions: Effects of lateral viscosity variations in the lithosphere. Earth, Planets and Space, 2001, 53, 709-721.	2.5	20
25	Mantle convection modeling of the supercontinent cycle: Introversion, extroversion, or a combination?. Geoscience Frontiers, 2014, 5, 77-81.	8.4	18
26	Possibility of hot anomaly in the sub-slab mantle as an origin of low seismic velocity anomaly under the subducting Pacific plate. Physics of the Earth and Planetary Interiors, 2010, 183, 353-365.	1.9	17
27	The 3D numerical modeling of subduction dynamics: Plate stagnation and segmentation, and crustal advection in the wet mantle transition zone. Journal of Geophysical Research, 2012, 117, .	3.3	17
28	Numerical studies on the dynamics of two-layer Rayleigh-BÃ©nard convection with an infinite Prandtl number and large viscosity contrasts. Physics of Fluids, 2016, 28, .	4.0	16
29	A new conceptual model for whole mantle convection and the origin of hotspot plumes. Journal of Geodynamics, 2014, 78, 32-41.	1.6	13
30	Effects of various lithospheric yield stresses and different mantle-heating modes on the breakup of the Pangea supercontinent. Geophysical Research Letters, 2014, 41, 3060-3067.	4.0	13
31	Heat transport and coupling modes in Rayleighâ€“BÃ©nard convection occurring between two layers with largely different viscosities. Physics of Fluids, 2017, 29, .	4.0	13
32	Plume heat flow in a numerical model of mantle convection with moving plates. Earth and Planetary Science Letters, 2005, 239, 276-285.	4.4	12
33	The role of harzburgite layers in the morphology of subducting plates and the behavior of oceanic crustal layers. Geophysical Research Letters, 2013, 40, 5387-5392.	4.0	12
34	Plumeâ€™s buoyancy and heat fluxes from the deep mantle estimated by an instantaneous mantle flow simulation based on the S40RTS global seismic tomography model. Physics of the Earth and Planetary Interiors, 2012, 210-211, 63-74.	1.9	10
35	Influence of two major phase transitions on mantle convection with moving and subducting plates. Earth, Planets and Space, 2004, 56, 1019-1033.	2.5	9
36	Variation of the subsidence parameters, effective thermal conductivity, and mantle dynamics. Earth and Planetary Science Letters, 2015, 426, 130-142.	4.4	9

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37	Re-evaluation of the regional tectonic stress fields and faulting regimes in central Kyushu, Japan, behind the 2016 M 7.0 Kumamoto Earthquake. Tectonophysics, 2017, 712-713, 95-100.	2.2	9
38	Continental Drift with Deep Cratonic Roots. Annual Review of Earth and Planetary Sciences, 2021, 49, 117-139.	11.0	9
39	The role of hot uprising plumes in the initiation of plate-like regime of three-dimensional mantle convection. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	7
40	On the possibility of a folded crustal layer stored in the hydrous mantle transition zone. Physics of the Earth and Planetary Interiors, 2013, 219, 34-48.	1.9	7
41	On approximations of the basic equations of terrestrial mantle convection used in published literature. Physics of the Earth and Planetary Interiors, 2017, 268, 11-17.	1.9	7
42	On mantle drag force for the formation of a next supercontinent as estimated from a numerical simulation model of global mantle convection. Terra Nova, 2019, 31, 135-149.	2.1	7
43	Possible effects of lateral viscosity variations induced by plate-tectonic mechanism on geoid inferred from numerical models of mantle convection. Physics of the Earth and Planetary Interiors, 2004, 147, 67-85.	1.9	6
44	Conjecture with water and rheological control for subducting slab in the mantle transition zone. Geoscience Frontiers, 2015, 6, 79-93.	8.4	6
45	Dynamics of three-layer convection in a two-dimensional spherical domain with a growing innermost layer: Implications for whole solid-earth dynamics. Physics of Fluids, 2018, 30, 096601.	4.0	4
46	Influence of convection regimes of two-layer thermal convection with large viscosity contrast on the thermal and mechanical states at the interface of the two layers: Implications for dynamics in the present-day and past Earth. Physics of Fluids, 2019, 31, 106603.	4.0	4
47	A new analysis of the intraplate stress regime and stress ratio in numerically modeled mantle convection. Tectonophysics, 2022, 826, 229240.	2.2	4
48	Dynamics of continental lithosphere extension and passive continental rifting from numerical experiments of visco-elasto-plastic thermo-chemical convection in 2-D Cartesian geometry. Tectonophysics, 2020, 796, 228659.	2.2	3
49	Three-dimensional visualization of numerically simulated, present-day global mantle flow. Journal of Visualization, 2013, 16, 163-171.	1.8	2
50	Driving forces of plate motion and continental drift: Revisited. Journal of the Geological Society of Japan, 2015, 121, 429-445.	0.6	2
51	Trace-element characteristics of eastâ€"west mantle geochemical hemispheres. Comptes Rendus - Geoscience, 2019, 351, 209-220.	1.2	2
52	Possible tectonic patterns along the eastern margin of Gondwanaland from numerical studies of mantle convection. Tectonophysics, 2020, 787, 228476.	2.2	2
53	Modeling Long-Wavelength Geoid Anomalies from Instantaneous Mantle Flow: Results from Two Recent Tomography Models. Pure and Applied Geophysics, 2019, 176, 4335-4348.	1.9	1