

Taras Gerya

List of Publications by Year in descending order

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304
papers

20,925
citations

7096

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14208

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364
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docs citations

364
times ranked

7468
citing authors

#	ARTICLE	IF	CITATIONS
1	The rise and demise of deep accretionary wedges: A long-term field and numerical modeling perspective. , 2022, 18, 69-103.		9
2	Numerical modeling of subduction: State of the art and future directions. , 2022, 18, 503-561.		22
3	Self-organization of magma supply controls crustal thickness variation and tectonic pattern along melt-poor mid-ocean ridges. Earth and Planetary Science Letters, 2022, 584, 117482.	4.4	5
4	Subduction earthquake sequences in a non-linear visco-elasto-plastic megathrust. Geophysical Journal International, 2022, 229, 1098-1121.	2.4	10
5	Contrasting influence of sediments vs surface processes on retreating subduction zones dynamics. Tectonophysics, 2022, 836, 229410.	2.2	3
6	Low-degree mantle melting controls the deep seismicity and explosive volcanism of the Gakkel Ridge. Nature Communications, 2022, 13, .	12.8	8
7	A Wavelet-Based Adaptive Finite Element Method for the Stokes Problems. Fluids, 2022, 7, 221.	1.7	0
8	Subduction earthquake cycles controlled by episodic fluid pressure cycling. Lithos, 2022, 426-427, 106800.	1.4	12
9	Physics-Based Numerical Modeling of Geological Processes. , 2021, , 868-883.		1
10	Subduction Initiation. , 2021, , 994-1000.		1
11	Plumeâ€nduced Sinking of Intracontinental Lithospheric Mantle: An Overlooked Mechanism of Subduction Initiation?. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009482.	2.5	27
12	Transition from continental rifting to oceanic spreadingâ€in the northern Red Seaâ€area. Scientific Reports, 2021, 11, 5594.	3.3	11
13	Trans-lithospheric diapirism explains the presence of ultra-high pressure rocks in the European Variscides. Communications Earth & Environment, 2021, 2, .	6.8	24
14	Time will tell: Secular change in metamorphic timescales and the tectonic implications. Gondwana Research, 2021, 93, 291-310.	6.0	24
15	Backarc Lithospheric Thickness and Serpentine Stability Control Slabâ€Mantle Coupling Depths in Subduction Zones. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009304.	2.5	10
16	Controls by rheological structure of the lithosphere on the temporal evolution of continental magmatism: Inferences from the Pannonian Basin system. Earth and Planetary Science Letters, 2021, 565, 116925.	4.4	20
17	Transient Slow Slip Characteristics of Frictionalâ€Viscous Subduction Megathrust Shear Zones. AGU Advances, 2021, 2, e2021AV000416.	5.4	11
18	Oblique subduction and mantle flow control on upper plate deformation: 3D geodynamic modeling. Earth and Planetary Science Letters, 2021, 569, 117056.	4.4	16

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19	Plate motion and plume-induced subduction initiation. <i>Gondwana Research</i> , 2021, 98, 277-288.	6.0	5
20	Depletion of the upper mantle by convergent tectonics in the Early Earth. <i>Scientific Reports</i> , 2021, 11, 21489.	3.3	5
21	Plume-Induced Subduction Initiation: Revisiting Models and Observations. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	13
22	Dynamic slab segmentation due to brittle–ductile damage in the outer rise. <i>Nature</i> , 2021, 599, 245-250.	27.8	41
23	Inversion in the permeability evolution of deforming Westerly granite near the brittle–ductile transition. <i>Scientific Reports</i> , 2021, 11, 24027.	3.3	0
24	Building cratonic keels in Precambrian plate tectonics. <i>Nature</i> , 2020, 586, 395-401.	27.8	43
25	Corona structures driven by plume–lithosphere interactions and evidence for ongoing plume activity on Venus. <i>Nature Geoscience</i> , 2020, 13, 547-554.	12.9	90
26	Seismo-hydro-mechanical modelling of the seismic cycle: Methodology and implications for subduction zone seismicity. <i>Tectonophysics</i> , 2020, 791, 228504.	2.2	25
27	Slab Rollback Orogeny Model: A Test of Concept. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089917.	4.0	12
28	Ongoing formation of felsic lower crustal channel by relamination in Zagros collision zone revealed from regional tomography. <i>Scientific Reports</i> , 2020, 10, 8224.	3.3	9
29	Analog and Numerical Experiments of Double Subduction Systems With Opposite Polarity in Adjacent Segments. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009035.	2.5	7
30	The role of pre-existing weak zones in the formation of the Himalaya and Tibetan plateau: 3-D thermomechanical modelling. <i>Geophysical Journal International</i> , 2020, 221, 1971-1983.	2.4	18
31	Lateral propagation–induced subduction initiation at passive continental margins controlled by preexisting lithospheric weakness. <i>Science Advances</i> , 2020, 6, eaaz1048.	10.3	54
32	Can Grain Size Reduction Initiate Transform Faults? Insights From a 3D Numerical Study. <i>Tectonics</i> , 2020, 39, e2019TC005793.	2.8	15
33	Subduction Initiation by Plume–Plateau Interaction: Insights From Numerical Models. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009119.	2.5	9
34	Plume-Induced Subduction Initiation: Single-Slab or Multi-Slab Subduction?. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008663.	2.5	28
35	Peel-back controlled lithospheric convergence explains the secular transitions in Archean metamorphism and magmatism. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116224.	4.4	49
36	Oceanic crust recycling controlled by weakening at slab edges. <i>Nature Communications</i> , 2020, 11, 2009.	12.8	17

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37	Transient stripping of subducting slabs controls periodic forearc uplift. Nature Communications, 2020, 11, 1823.	12.8	49
38	Characteristics of earthquake ruptures and dynamic off-fault deformation on propagating faults. Solid Earth, 2020, 11, 1333-1360.	2.8	12
39	Seismic and Aseismic Fault Growth Lead to Different Fault Orientations. Journal of Geophysical Research: Solid Earth, 2019, 124, 8867-8889.	3.4	26
40	Stress-driven fluid flow controls long-term megathrust strength and deep accretionary dynamics. Scientific Reports, 2019, 9, 9714.	3.3	26
41	A Secondary Zone of Uplift Due to Megathrust Earthquakes. Pure and Applied Geophysics, 2019, 176, 4043-4068.	1.9	13
42	Geodynamics of the early Earth: Quest for the missing paradigm. Geology, 2019, 47, 1006-1007.	4.4	27
43	Isotopic and Petrologic Investigation, and a Thermomechanical Model of Genesis of Large-Volume Rhyolites in Arc Environments: Karymshina Volcanic Complex, Kamchatka, Russia. Frontiers in Earth Science, 2019, 6, .	1.8	10
44	The continuity equation. , 2019, , 12-25.		0
45	Density and gravity. , 2019, , 26-37.		0
46	Numerical solutions of partial differential equations. , 2019, , 38-49.		0
47	Stress and strain. , 2019, , 50-59.		0
48	The momentum equation. , 2019, , 60-72.		0
49	Viscous rheology of rocks. , 2019, , 73-81.		1
50	Numerical solutions of the momentum and continuity equations. , 2019, , 82-104.		2
51	The advection equation and marker-in-cell method. , 2019, , 105-127.		0
52	The heat conservation equation. , 2019, , 128-138.		0
53	Numerical solution of the heat conservation equation. , 2019, , 139-155.		1
54	2D thermomechanical code structure. , 2019, , 156-170.		1

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55	Elasticity and plasticity. , 2019, , 171-187.		0
56	2D implementation of visco-elasto-plasticity. , 2019, , 188-208.		0
57	2D thermomechanical modelling of inertial processes. , 2019, , 209-223.		0
58	Seismo-thermomechanical modelling. , 2019, , 224-239.		0
59	Hydro-thermomechanical modelling. , 2019, , 240-276.		0
60	Adaptive mesh refinement. , 2019, , 277-291.		0
61	The multigrid method. , 2019, , 292-318.		0
62	Programming of 3D problems. , 2019, , 319-339.		0
63	Numerical benchmarks. , 2019, , 340-368.		0
64	Design of 2D numerical geodynamic models. , 2019, , 369-405.		1
65	Variability of subducting slab morphologies in the mantle transition zone: Insight from petrological-thermomechanical modeling. Earth-Science Reviews, 2019, 196, 102874.	9.1	49
66	Growing primordial continental crust self-consistently in global mantle convection models. Gondwana Research, 2019, 73, 96-122.	6.0	31
67	Crustal melting beneath orogenic plateaus: Insights from 3-D thermo-mechanical modeling. Tectonophysics, 2019, 761, 1-15.	2.2	27
68	Near-ridge initiation of intraoceanic subduction: Effects of inheritance in 3D numerical models of the Wilson Cycle. Tectonophysics, 2019, 763, 1-13.	2.2	28
69	Plume-induced Breakup of a Subducting Plate: Microcontinent Formation Without Cessation of the Subduction Process. Geophysical Research Letters, 2019, 46, 3663-3675.	4.0	19
70	The Neoarchaean Limpopo Orogeny: Exhumation and Regional-Scale Gravitational Crustal Overturn Driven by a Granulite Diapir. Regional Geology Reviews, 2019, , 185-224.	1.2	11
71	A water budget dichotomy of rocky protoplanets from ²⁶ Al-heating. Nature Astronomy, 2019, 3, 307-313.	10.1	91
72	Late Orogenic Heating of (Ultra)High Pressure Rocks: Slab Rollback vs. Slab Breakoff. Geosciences (Switzerland), 2019, 9, 499.	2.2	33

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73	Understanding the isotopic and chemical evolution of Yellowstone hot spot magmatism using magmatic-thermomechanical modeling. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 370, 13-30.	2.1	12
74	Magma ascent in planetesimals: Control by grain size. <i>Earth and Planetary Science Letters</i> , 2019, 507, 154-165.	4.4	31
75	On the formation of oceanic detachment faults and their influence on intra-oceanic subduction initiation: 3D thermomechanical modeling. <i>Earth and Planetary Science Letters</i> , 2019, 506, 195-208.	4.4	31
76	Bimodal seismicity in the Himalaya controlled by fault friction and geometry. <i>Nature Communications</i> , 2019, 10, 48.	12.8	78
77	3D numerical modelling of the Wilson cycle: structural inheritance of alternating subduction polarity. <i>Geological Society Special Publication</i> , 2019, 470, 439-461.	1.3	7
78	Thermomechanical Modeling of the Formation of a Multilevel, Crustal-Scale Magmatic System by the Yellowstone Plume. <i>Geophysical Research Letters</i> , 2018, 45, 3873-3879.	4.0	54
79	Divergent plate motion drives rapid exhumation of (ultra)high pressure rocks. <i>Earth and Planetary Science Letters</i> , 2018, 491, 67-80.	4.4	35
80	Efficient cooling of rocky planets by intrusive magmatism. <i>Nature Geoscience</i> , 2018, 11, 322-327.	12.9	78
81	3D modeling of crustal shortening influenced by along-strike lithological changes: Implications for continental collision in the Western and Central Alps. <i>Tectonophysics</i> , 2018, 746, 425-438.	2.2	14
82	The Mechanism and Dynamics of Nâ€¦ Rifting in Southern Tibet: Insight From 3â€¦ Thermomechanical Modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 859-877.	3.4	20
83	Impact splash chondrule formation during planetesimal recycling. <i>Icarus</i> , 2018, 302, 27-43.	2.5	79
84	Variability of orogenic magmatism during Mediterranean-style continental collisions: A numerical modelling approach. <i>Gondwana Research</i> , 2018, 56, 119-134.	6.0	27
85	Dynamics of exhumation and deformation of HP-UHP orogens in double subduction-collision systems: Numerical modeling and implications for the Western Dabie Orogen. <i>Earth-Science Reviews</i> , 2018, 182, 68-84.	9.1	34
86	Precambrian ultra-hot orogenic factory: Making and reworking of continental crust. <i>Tectonophysics</i> , 2018, 746, 572-586.	2.2	49
87	Plume-induced continental rifting and break-up in ultra-slow extension context: Insights from 3D numerical modeling. <i>Tectonophysics</i> , 2018, 746, 121-137.	2.2	42
88	Stagnant lid tectonics: Perspectives from silicate planets, dwarf planets, large moons, and large asteroids. <i>Geoscience Frontiers</i> , 2018, 9, 103-119.	8.4	72
89	Dynamics of terrane accretion during seaward continental drifting and oceanic subduction: Numerical modeling and implications for the Jurassic crustal growth of the Lhasa Terrane, Tibet. <i>Tectonophysics</i> , 2018, 746, 212-228.	2.2	20
90	What drives metamorphism in early Archean greenstone belts? Insights from numerical modeling. <i>Tectonophysics</i> , 2018, 746, 587-601.	2.2	25

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91	Coupling SPH and thermochemical models of planets: Methodology and example of a Mars-sized body. <i>Icarus</i> , 2018, 301, 235-246.	2.5	65
92	Nucleation and evolution of ridge-ridge-ridge triple junctions: Thermomechanical model and geometrical theory. <i>Tectonophysics</i> , 2018, 746, 83-105.	2.2	37
93	Subduction initiation in nature and models: A review. <i>Tectonophysics</i> , 2018, 746, 173-198.	2.2	335
94	Relamination Styles in Collisional Orogens. <i>Tectonics</i> , 2018, 37, 224-250.	2.8	32
95	Plume-lithosphere interactions in rifted margin tectonic settings: Inferences from thermo-mechanical modelling. <i>Tectonophysics</i> , 2018, 746, 138-154.	2.2	20
96	Non-uniform splitting of a single mantle plume by double cratonic roots: Insight into the origin of the central and southern East African Rift System. <i>Terra Nova</i> , 2018, 30, 125-134.	2.1	22
97	Seismic behaviour of mountain belts controlled by plate convergence rate. <i>Earth and Planetary Science Letters</i> , 2018, 482, 81-92.	4.4	78
98	Oblique continental rifting and long transform fault formation based on 3D thermomechanical numerical modeling. <i>Tectonophysics</i> , 2018, 746, 106-120.	2.2	18
99	The role of lateral strength contrasts in orogenesis: A 2D numerical study. <i>Tectonophysics</i> , 2018, 746, 549-561.	2.2	19
100	Subduction initiation dynamics along a transform fault control trench curvature and ophiolite ages. <i>Geology</i> , 2018, 46, 607-610.	4.4	69
101	Initiation of a Proto-transform Fault Prior to Seafloor Spreading. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4744-4756.	2.5	18
102	Afar triple junction triggered by plume-assisted bi-directional continental break-up. <i>Scientific Reports</i> , 2018, 8, 14742.	3.3	30
103	Multi-terrane structure controls the contrasting lithospheric evolution beneath the western and central-eastern Tibetan plateau. <i>Nature Communications</i> , 2018, 9, 3780.	12.8	49
104	Along-Axis Variations of Rift Width in a Coupled Lithosphere-Mantle System, Application to East Africa. <i>Geophysical Research Letters</i> , 2018, 45, 5362-5370.	4.0	20
105	An Invariant Rate- and State-Dependent Friction Formulation for Viscoelastoplastic Earthquake Cycle Simulations. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 5018-5051.	3.4	64
106	Emplacement of metamorphic core complexes and associated geothermal systems controlled by slab dynamics. <i>Earth and Planetary Science Letters</i> , 2018, 498, 322-333.	4.4	36
107	Extensional Polarity Change in Continental Rifts: Inferences From 3D Numerical Modeling and Observations. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 8073-8094.	3.4	23
108	Toward 4D modeling of orogenic belts: Example from the transpressive Zagros Fold Belt. <i>Tectonophysics</i> , 2017, 702, 82-89.	2.2	15

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109	Continental crust formation on early Earth controlled by intrusive magmatism. <i>Nature</i> , 2017, 545, 332-335.	27.8	174
110	Partitioning of crustal shortening during continental collision: 2D thermomechanical modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 592-606.	3.4	24
111	3D geodynamic models for the development of opposing continental subduction zones: The Hindu Kush-Pamir example. <i>Earth and Planetary Science Letters</i> , 2017, 480, 133-146.	4.4	31
112	Emergence of silicic continents as the lower crust peels off on a hot plate-tectonic Earth. <i>Nature Geoscience</i> , 2017, 10, 698-703.	12.9	90
113	Horizontal mantle flow controls subduction dynamics. <i>Scientific Reports</i> , 2017, 7, 7550.	3.3	41
114	Long-distance impact of Iceland plume on Norway's rifted margin. <i>Scientific Reports</i> , 2017, 7, 10408.	3.3	29
115	Crustal rheology controls on the Tibetan plateau formation during India-Asia convergence. <i>Nature Communications</i> , 2017, 8, 15992.	12.8	57
116	Stratigraphic signatures of forearc basin formation mechanisms. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2388-2410.	2.5	13
117	Modeling Craton Destruction by Hydration-Induced Weakening of the Upper Mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 7449-7466.	3.4	30
118	Lithosphere delamination in continental collisional orogens: A systematic numerical study. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5186-5211.	3.4	116
119	The effects of short-lived radionuclides and porosity on the early thermo-mechanical evolution of planetesimals. <i>Icarus</i> , 2016, 274, 350-365.	2.5	89
120	Benchmarking numerical models of brittle thrust wedges. <i>Journal of Structural Geology</i> , 2016, 92, 140-177.	2.3	81
121	3D numerical modeling of mantle flow, crustal dynamics and magma genesis associated with slab roll-back and tearing: The eastern Mediterranean case. <i>Earth and Planetary Science Letters</i> , 2016, 442, 93-107.	4.4	101
122	Thermo-mechanical controls of flat subduction: Insights from numerical modeling. <i>Gondwana Research</i> , 2016, 40, 170-183.	6.0	48
123	3-D thermo-mechanical modeling of plume-induced subduction initiation. <i>Earth and Planetary Science Letters</i> , 2016, 453, 193-203.	4.4	39
124	Fluid-assisted deformation of the subduction interface: Coupled and decoupled regimes from 2D hydromechanical modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 6132-6149.	3.4	12
125	Crustal deformation dynamics and stress evolution during seamount subduction: High-resolution 3D numerical modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 6880-6902.	3.4	68
126	Impact of sedimentation on evolution of accretionary wedges: Insights from high-resolution thermomechanical modeling. <i>Tectonics</i> , 2016, 35, 2828-2846.	2.8	15

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127	The role of lateral lithospheric strength heterogeneities in orogenic plateau growth: Insights from 3D thermo-mechanical modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 3118-3138.	3.4	32
128	Regimes of subduction and lithospheric dynamics in the Precambrian: 3D thermomechanical modelling. <i>Gondwana Research</i> , 2016, 37, 53-70.	6.0	88
129	Contrasted continental rifting via plume-craton interaction: Applications to Central East African Rift. <i>Geoscience Frontiers</i> , 2016, 7, 221-236.	8.4	68
130	Interplate deformation at early-stage oblique subduction: 3D thermomechanical numerical modeling. <i>Tectonics</i> , 2016, 35, 1610-1625.	2.8	9
131	Thermo-mechanical modeling of the obduction process based on the Oman Ophiolite case. <i>Gondwana Research</i> , 2016, 32, 1-10.	6.0	61
132	On the influence of the asthenospheric flow on the tectonics and topography at a collision-subduction transition zones: Comparison with the eastern Tibetan margin. <i>Journal of Geodynamics</i> , 2016, 100, 184-197.	1.6	36
133	Early Earth plume-lid tectonics: A high-resolution 3D numerical modelling approach. <i>Journal of Geodynamics</i> , 2016, 100, 198-214.	1.6	128
134	Numerical modeling of deep oceanic slab dehydration: Implications for the possible origin of far field intra-continental volcanoes in northeastern China. <i>Journal of Asian Earth Sciences</i> , 2016, 117, 328-336.	2.3	19
135	Decarbonation of subducting slabs: Insight from petrological-thermomechanical modeling. <i>Gondwana Research</i> , 2016, 36, 314-332.	6.0	30
136	2D thermomechanical modelling of continent-arc-continent collision. <i>Gondwana Research</i> , 2016, 32, 138-150.	6.0	28
137	Tectonic slicing of subducting oceanic crust along plate interfaces: Numerical modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 3505-3531.	2.5	46
138	How partial melting affects small-scale convection in a plume-fed sublithospheric layer beneath fast-moving plates. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 3924-3945.	2.5	6
139	Tectonic overpressure and underpressure in lithospheric tectonics and metamorphism. <i>Journal of Metamorphic Geology</i> , 2015, 33, 785-800.	3.4	71
140	Material transportation and fluid-melt activity in the subduction channel: Numerical modeling. <i>Science China Earth Sciences</i> , 2015, 58, 1251-1268.	5.2	29
141	Supercomputer simulation of continental collisions in Precambrian: The effect of lithosphere thickness. <i>Moscow University Geology Bulletin</i> , 2015, 70, 77-83.	0.3	2
142	H ₂ O-fluid-saturated melting of subducted continental crust facilitates exhumation of ultrahigh-pressure rocks in continental subduction zones. <i>Earth and Planetary Science Letters</i> , 2015, 428, 151-161.	4.4	40
143	Earthquake supercycle in subduction zones controlled by the width of the seismogenic zone. <i>Nature Geoscience</i> , 2015, 8, 471-474.	12.9	101
144	Dual continental rift systems generated by plume-lithosphere interaction. <i>Nature Geoscience</i> , 2015, 8, 388-392.	12.9	176

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145	Generation of felsic crust in the Archean: A geodynamic modeling perspective. <i>Precambrian Research</i> , 2015, 271, 198-224.	2.7	246
146	Geomorphological “thermo-mechanical modeling: Application to orogenic wedge dynamics. <i>Tectonophysics</i> , 2015, 659, 12-30.	2.2	52
147	Plate tectonics on the Earth triggered by plume-induced subduction initiation. <i>Nature</i> , 2015, 527, 221-225.	27.8	310
148	From continental rifting to seafloor spreading: Insight from 3D thermo-mechanical modeling. <i>Gondwana Research</i> , 2015, 28, 1329-1343.	6.0	44
149	Practical analytical solutions for benchmarking of 2-D and 3-D geodynamic Stokes problems with variable viscosity. <i>Solid Earth</i> , 2014, 5, 461-476.	2.8	37
150	Three-dimensional simulations of the southern polar giant impact hypothesis for the origin of the Martian dichotomy. <i>Geophysical Research Letters</i> , 2014, 41, 8736-8743.	4.0	71
151	Implementation of a multigrid solver on a GPU for Stokes equations with strongly variable viscosity based on Matlab and CUDA. <i>International Journal of High Performance Computing Applications</i> , 2014, 28, 50-60.	3.7	30
152	Lead transport in intra-oceanic subduction zones: 2D geochemical “thermo-mechanical modeling of isotopic signatures. <i>Lithos</i> , 2014, 208-209, 265-280.	1.4	32
153	Numerical models of the thermomechanical evolution of planetesimals: Application to the acapulcoite “lodranite parent body. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1083-1099.	1.6	59
154	Contrasting styles of Phanerozoic and Precambrian continental collision. <i>Gondwana Research</i> , 2014, 25, 522-545.	6.0	244
155	Precambrian geodynamics: Concepts and models. <i>Gondwana Research</i> , 2014, 25, 442-463.	6.0	262
156	Plume-induced crustal convection: 3D thermomechanical model and implications for the origin of novae and coronae on Venus. <i>Earth and Planetary Science Letters</i> , 2014, 391, 183-192.	4.4	78
157	From oceanic plateaus to allochthonous terranes: Numerical modelling. <i>Gondwana Research</i> , 2014, 25, 494-508.	6.0	82
158	Modeling the seismic cycle in subduction zones: The role and spatiotemporal occurrence of off “megathrust earthquakes. <i>Geophysical Research Letters</i> , 2014, 41, 1194-1201.	4.0	51
159	Slab detachment in laterally varying subduction zones: 3-D numerical modeling. <i>Geophysical Research Letters</i> , 2014, 41, 1951-1956.	4.0	82
160	Subduction of fracture zones controls mantle melting and geochemical signature above slabs. <i>Nature Communications</i> , 2014, 5, 5095.	12.8	51
161	Subduction initiates at straight passive margins. <i>Geology</i> , 2014, 42, 331-334.	4.4	32
162	Asymmetric three-dimensional topography over mantle plumes. <i>Nature</i> , 2014, 513, 85-89.	27.8	190

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163	Driving the upper plate surface deformation by slab rollback and mantle flow. <i>Earth and Planetary Science Letters</i> , 2014, 405, 110-118.	4.4	120
164	Boris Kaus receives 2012 Paul Niggli Medal. <i>Swiss Journal of Geosciences</i> , 2014, 107, 129-131.	1.2	0
165	Deep plate serpentinization triggers skinning of subducting slabs. <i>Geology</i> , 2014, 42, 723-726.	4.4	20
166	Dependence of mid-ocean ridge morphology on spreading rate in numerical 3-D models. <i>Gondwana Research</i> , 2014, 25, 270-283.	6.0	31
167	Numerical approach to the Stokes problem with high contrasts in viscosity. <i>Applied Mathematics and Computation</i> , 2014, 235, 17-25.	2.2	5
168	Influence of lithospheric mantle stratification on craton extension: Insight from two-dimensional thermo-mechanical modeling. <i>Tectonophysics</i> , 2014, 631, 50-64.	2.2	57
169	3D effects of strain vs. velocity weakening on deformation patterns in accretionary wedges. <i>Tectonophysics</i> , 2014, 615-616, 122-141.	2.2	29
170	Geodynamic regimes of intra-oceanic subduction: Implications for arc extension vs. shortening processes. <i>Gondwana Research</i> , 2014, 25, 546-560.	6.0	43
171	Formation and Exhumation of Ultrahigh-Pressure Terranes. <i>Elements</i> , 2013, 9, 289-293.	0.5	55
172	Intracratonic geodynamics. <i>Gondwana Research</i> , 2013, 24, 838-848.	6.0	44
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