

# Sascha Brune

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

2,331  
citations

218592

26  
h-index

214721

47  
g-index

88  
all docs

88  
docs citations

88  
times ranked

2082  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of Rift Systems and Their Fault Networks in Response to Surface Processes. <i>Tectonics</i> , 2022, 41, .	1.3	20
2	Flexural strike-slip basins. <i>Geology</i> , 2022, 50, 361-365.	2.0	6
3	Numerical Modeling of Tectonic Processes. , 2021, , 903-912.		0
4	Is There a Speed Limit for the Thermal Steady-State Assumption in Continental Rifts?. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009577.	1.0	6
5	Examining the impact of the Great Barrier Reef on tsunami propagation using numerical simulations. <i>Natural Hazards</i> , 2021, 108, 347-388.	1.6	2
6	Kinematics and extent of the Piemontâ€“Liguria Basin â€“ implications for subduction processes in the Alps. <i>Solid Earth</i> , 2021, 12, 885-913.	1.2	55
7	Kinematics of Footwall Exhumation at Oceanic Detachment faults: Solidâ€“Block Rotation and Apparent Unbending. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009681.	1.0	12
8	Formation of Continental Microplates Through Rift Linkage: Numerical Modeling and Its Application to the Flemish Cap and Sao Paulo Plateau. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009615.	1.0	28
9	Controls on Asymmetric Rift Dynamics: Numerical Modeling of Strain Localization and Fault Evolution in the Kenya Rift. <i>Tectonics</i> , 2021, 40, e2020TC006553.	1.3	15
10	3D seismic interpretation with deep learning: A brief introduction. <i>The Leading Edge</i> , 2021, 40, 524-532.	0.4	16
11	Modelling Mie scattering in pyrolite in the laser-heated diamond anvil cell: Implications for the core-mantle boundary temperature determination. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 318, 106773.	0.7	1
12	Plate motion and plume-induced subduction initiation. <i>Gondwana Research</i> , 2021, 98, 277-288.	3.0	5
13	Numerical Modeling of Mantle Flow Beneath Madagascar to Constrain Upper Mantle Rheology Beneath Continental Regions. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018560.	1.4	12
14	Victoria continental microplate dynamics controlled by the lithospheric strength distribution of the East African Rift. <i>Nature Communications</i> , 2020, 11, 2881.	5.8	33
15	Mechanism for Deep Crustal Seismicity: Insight From Modeling of Deformation Processes at the Main Ethiopian Rift. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC008935.	1.0	15
16	Recent volcano-tectonic activity of the Ririba rift and the evolution of rifting in South Ethiopia. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 403, 106989.	0.8	12
17	Subduction Initiation by Plumeâ€“Plateau Interaction: Insights From Numerical Models. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009119.	1.0	9
18	Plumeâ€“Induced Subduction Initiation: Singleâ€“Slab or Multiâ€“Slab Subduction?. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008663.	1.0	28

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19	Quantifying Postrift Lower Crustal Flow in the Northern Margin of the South China Sea. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018910.	1.4	24
20	Symmetry of the South China Sea conjugate margins in a rifting, drifting and collision context. <i>Marine and Petroleum Geology</i> , 2020, 117, 104397.	1.5	12
21	Development of 3D Rift Heterogeneity Through Fault Network Evolution. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086611.	1.5	31
22	Thermal Evolution of Asymmetric Hyperextended Magma-Poor Rift Systems: Results From Numerical Modeling and Pyrenean Field Observations. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4567-4587.	1.0	27
23	Deep Carbon Cycling Over the Past 200 Million Years: A Review of Fluxes in Different Tectonic Settings. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	43
24	From gradual spreading to catastrophic collapse – Reconstruction of the 1888 Ritter Island volcanic sector collapse from high-resolution 3D seismic data. <i>Earth and Planetary Science Letters</i> , 2019, 517, 1-13.	1.8	44
25	Formation of the Iberian-European Convergent Plate Boundary Fault and Its Effect on Intraplate Deformation in Central Europe. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 2395-2417.	1.0	26
26	Aborted propagation of the Ethiopian rift caused by linkage with the Kenyan rift. <i>Nature Communications</i> , 2019, 10, 1309.	5.8	49
27	Breakup Without Borders: How Continents Speed Up and Slow Down During Rifting. <i>Geophysical Research Letters</i> , 2019, 46, 1338-1347.	1.5	24
28	Sedimentary loading–unloading cycles and faulting in intermontane basins: Insights from numerical modeling and field observations in the NW Argentine Andes. <i>Earth and Planetary Science Letters</i> , 2019, 506, 388-396.	1.8	28
29	Strain Localization and Weakening Processes in Viscously Deforming Rocks: Numerical Modeling Based on Laboratory Torsion Experiments. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 1120-1137.	1.4	9
30	Crustal stretching style variations in the northern margin of the South China Sea. <i>Tectonophysics</i> , 2019, 751, 1-12.	0.9	22
31	Rift and plate boundary evolution across two supercontinent cycles. <i>Global and Planetary Change</i> , 2019, 173, 1-14.	1.6	70
32	Forces within continental and oceanic rifts: Numerical modeling elucidates the impact of asthenospheric flow on surface stress. <i>Geology</i> , 2018, 46, 191-192.	2.0	15
33	Oblique rifting: the rule, not the exception. <i>Solid Earth</i> , 2018, 9, 1187-1206.	1.2	85
34	High-temperature shear zone formation in Carrara marble: The effect of loading conditions. <i>Tectonophysics</i> , 2018, 749, 120-139.	0.9	8
35	Seismic structure of the lithosphere beneath NW–NE Arabia: Impact of the Tethyan–Cenozoic mantle plume. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 125-141.	1.0	14
36	Controls of inherited lithospheric heterogeneity on rift linkage: Numerical and analog models of interaction between the Kenyan and Ethiopian rifts across the Turkana depression. <i>Tectonics</i> , 2017, 36, 1767-1786.	1.3	82

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37	Potential links between continental rifting, CO2 degassing and climate change through time. <i>Nature Geoscience</i> , 2017, 10, 941-946.	5.4	136
38	Rifted margin architecture and crustal rheology: Reviewing Iberia-Newfoundland, Central South Atlantic, and South China Sea. <i>Marine and Petroleum Geology</i> , 2017, 79, 257-281.	1.5	138
39	Global patterns in Earth's dynamic topography since the Jurassic: the role of subducted slabs. <i>Solid Earth</i> , 2017, 8, 899-919.	1.2	30
40	Abrupt plate accelerations shape rifted continental margins. <i>Nature</i> , 2016, 536, 201-204.	13.7	147
41	Strain localization in polycrystalline material with second phase particles: Numerical modeling with application to ice mixtures. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 3608-3628.	1.0	8
42	Climate changes control offshore crustal structure at South China Sea continental margin. <i>Earth and Planetary Science Letters</i> , 2015, 420, 66-72.	1.8	77
43	Rift migration explains continental margin asymmetry and crustal hyper-extension. <i>Nature Communications</i> , 2014, 5, 4014.	5.8	272
44	Oblique rifting of the Equatorial Atlantic: Why there is no Saharan Atlantic Ocean. <i>Geology</i> , 2014, 42, 211-214.	2.0	69
45	Evolution of stress and fault patterns in oblique rift systems: 3D numerical lithospheric-scale experiments from rift to breakup. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3392-3415.	1.0	109
46	Linking rift propagation barriers to excess magmatism at volcanic rifted margins. <i>Geology</i> , 2014, 42, 1071-1074.	2.0	53
47	Modeling of Potential Landslide Tsunami Hazards Off Western Thailand (Andaman Sea). <i>Advances in Natural and Technological Hazards Research</i> , 2014, , 517-527.	1.1	3
48	Quantifying the thermo-mechanical impact of plume arrival on continental break-up. <i>Tectonophysics</i> , 2013, 604, 51-59.	0.9	44
49	The rift to break-up evolution of the Gulf of Aden: Insights from 3D numerical lithospheric-scale modelling. <i>Tectonophysics</i> , 2013, 607, 65-79.	0.9	62
50	Modeling suggests that oblique extension facilitates rifting and continental break-up. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	99
51	Hazard assessment of underwater landslide-generated tsunamis: a case study in the Padang region, Indonesia. <i>Natural Hazards</i> , 2010, 53, 205-218.	1.6	21
52	Submarine landslides at the eastern Sunda margin: observations and tsunami impact assessment. <i>Natural Hazards</i> , 2010, 54, 547-562.	1.6	29
53	Landslide tsunami hazard in the Indonesian Sunda Arc. <i>Natural Hazards and Earth System Sciences</i> , 2010, 10, 589-604.	1.5	39
54	Experimental insights into the scaling and variability of local tsunamis triggered by giant subduction megathrust earthquakes. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	30

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55	Tsunami modeling of a submarine landslide in the Fram Strait. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	27
56	Are tilt measurements useful in detecting tsunamigenic submarine landslides?. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	5