Saskia Goes

List of Publications by Year
in descending order

89 papers	5,565 citations	76326 40 h-index	82547 72 g-index
110 all docs	110 docs citations	110 times ranked	3718 citing authors

#	Article	IF	Citations
1	Shallow mantle temperatures under Europe fromPandSwave tomography. Journal of Geophysical Research, 2000, 105, 11153-11169.	3.3	485
2	Inferring upper-mantle temperatures from seismic velocities. Physics of the Earth and Planetary Interiors, 2003, 138, 197-222.	1.9	477
3	Thermal structure of the North American uppermost mantle inferred from seismic tomography. Journal of Geophysical Research, 2002, 107, ETG 2-1.	3.3	243
4	A recent tectonic reorganization in the south-central Mediterranean. Earth and Planetary Science Letters, 2004, 226, 335-345.	4.4	219
5	A Lower Mantle Source for Central European Volcanism. Science, 1999, 286, 1928-1931.	12.6	210
6	Reconciling dynamic and seismic models of Earth's lower mantle: The dominant role of thermal heterogeneity. Earth and Planetary Science Letters, 2012, 353-354, 253-269.	4.4	190
7	Indiaâ€“Asia convergence driven by the subduction of the Greater Indian continent. Nature Geoscience, 2010, 3, 136-139.	12.9	183
8	Subduction-transition zone interaction: A review. , 2017, 13, 644-664.		167
9	Small-scale convection at the edge of the Colorado Plateau: Implications for topography, magmatism, and evolution of Proterozoic lithosphere. Geology, 2010, 38, 611-614.	4.4	149
10	Dynamic models of downgoing plate-buoyancy driven subduction: Subduction motions and energy dissipation. Earth and Planetary Science Letters, 2007, 262, 284-297.	4.4	148
11	Interaction of subducted slabs with the mantle transitionâ€zone: A regime diagram from 2â€D thermoâ€mechanical models with a mobile trench and an overriding plate. Geochemistry, Geophysics, Geosystems, 2014, 15, 1739-1765.	2.5	146
12	New GPS constraints on the Africa-Eurasia plate boundary zone in southern Italy. Geophysical Research Letters, 2003, 30, .	4.0	142
13	Evidence of lower-mantle slab penetration phases in plate motions. Nature, 2008, 451, 981-984.	27.8	129
14	Active deformation in eastern Indonesia and the Philippines from GPS and seismicity data. Journal of Geophysical Research, 2000, 105, 663-680.	3.3	117
15	Dynamics of plate bending at the trench and slabâ€plate coupling. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	106
16	Subducting-slab transition-zone interaction: Stagnation, penetration and mode switches. Earth and Planetary Science Letters, 2017, 464, 10-23.	4.4	83
17	Variable water input controls evolution of the Lesser Antilles volcanic arc. Nature, 2020, 582, 525-529.	27.8	81
18	Thermal structure of continental upper mantle inferred from S-wave velocity and surface heat flow. Earth and Planetary Science Letters, 2000, 181, 395-407.	4.4	73

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19	On the relationship between volcanic hotspot locations, the reconstructed eruption sites of large igneous provinces and deep mantle seismic structure. Earth and Planetary Science Letters, 2015, 411, 121-130.	4.4	71
20	Seismic potential of Southern Italy. Tectonophysics, 2006, 415, 81-101.	2.2	67
21	Small-scale convection during continental rifting: Evidence from the Rio Grande rift. Geology, 2008, 36, 575.	4.4	67
22	Thermochemical interpretation of one-dimensional seismic reference models for the upper mantle: evidence for bias due to heterogeneity. Geophysical Journal International, 2008, 175, 627-648.	2.4	66
23	Thermally Dominated Deep Mantle LLSVPs: A Review. , 2015, , 441-477.		66
24	Rapid subduction initiation and magmatism in the Western Pacific driven by internal vertical forces. Nature Communications, 2020, 11, 1874.	12.8	66
25	Earthquake recurrence parameters from seismic and geodetic strain rates in the eastern Mediterranean. Geophysical Journal International, 2004, 157, 1331-1347.	2.4	61
26	Synthetic seismic signature of thermal mantle plumes. Earth and Planetary Science Letters, 2004, 218, 403-419.	4.4	57
27	Thermochemical interpretation of 1â€D seismic data for the lower mantle: The significance of nonadiabatic thermal gradients and compositional heterogeneity. Journal of Geophysical Research, 2009, 114, .	3.3	57
28	Seismic constraints on temperature of the Australian uppermost mantle. Earth and Planetary Science Letters, 2005, 236, 227-237.	4.4	55
29	Fate of the Cenozoic Farallon slab from a comparison of kinematic thermal modeling with tomographic images. Earth and Planetary Science Letters, 2002, 204, 17-32.	4.4	54
30	Is a pyrolitic adiabatic mantle compatible with seismic data?. Earth and Planetary Science Letters, 2005, 232, 227-243.	4.4	54
31	Mesozoic spreading kinematics: consequences for Cenozoic Central and Western Mediterranean subduction. Geophysical Journal International, 2006, 165, 804-816.	2.4	54
32	Earthquakes track subduction fluids from slab source to mantle wedge sink. Science Advances, 2019, 5, eaav7369.	10.3	54
33	One-dimensional physical reference models for the upper mantle and transition zone: Combining seismic and mineral physics constraints. Journal of Geophysical Research, 2005, 110, .	3.3	53
34	The role of arc migration in the development of the Lesser Antilles: A new tectonic model for the Cenozoic evolution of the eastern Caribbean. Geology, 2019, 47, 891-895.	4.4	53
35	Low seismic velocities below midâ€ocean ridges: Attenuation versus melt retention. Journal of Geophysical Research, 2012, 117, .	3.3	52
36	Multiple mantle upwellings in the transition zone beneath the northern <scp>E</scp>astâ€<scp>A</scp>frican <scp>R</scp>ift system from relative Pâ€wave travelâ€time tomography. Geochemistry, Geophysics, Geosystems, 2015, 16, 2949-2968.	2.5	52

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37	Upper mantle temperature and the onset of extension and break-up in Afar, Africa. Earth and Planetary Science Letters, 2015, 418, 78-90.	4.4	52
38	Mantle wedge temperatures and their potential relation to volcanic arc location. Earth and Planetary Science Letters, 2018, 501, 67-77.	4.4	52
39	The effect of metastable pyroxene on the slab dynamics. Geophysical Research Letters, 2014, 41, 8800-8808.	4.0	44
40	How regularly do earthquakes recur? A synthetic seismicity model for the San Andreas Fault. Geophysical Research Letters, 1993, 20, 2131-2134.	4.0	43
41	Signatures of downgoing plate-buoyancy driven subduction in Cenozoic plate motions. Physics of the Earth and Planetary Interiors, 2011, 184, 1-13.	1.9	42
42	Seismic evidence for depth-dependent metasomatism in cratons. Earth and Planetary Science Letters, 2018, 491, 148-159.	4.4	42
43	The effect of plate stresses and shallow mantle temperatures on tectonics of northwestern Europe. Global and Planetary Change, 2000, 27, 23-38.	3.5	41
44	Continental lithospheric temperatures: A review. Physics of the Earth and Planetary Interiors, 2020, 306, 106509.	1.9	41
45	Complex cratonic seismic structure from thermal models of the lithosphere: effects of variations in deep radiogenic heating. Geophysical Journal International, 2010, 180, 999-1012.	2.4	40
46	Structure and seismicity of the Aegean subduction zone. Terra Nova, 1990, 2, 554-562.	2.1	39
47	Wavefront healing renders deep plumes seismically invisible. Geophysical Journal International, 2011, 187, 273-277.	2.4	36
48	Reconciling mantle wedge thermal structure with arc lava thermobarometric determinations in oceanic subduction zones. Geochemistry, Geophysics, Geosystems, 2016, 17, 4105-4127.	2.5	31
49	A systematic 2â€D investigation into the mantle wedge's transient flow regime and thermal structure: Complexities arising from a hydrated rheology and thermal buoyancy. Geochemistry, Geophysics, Geosystems, 2014, 15, 28-51.	2.5	30
50	Near-field deformation seen on distant broadband seismograms. Geophysical Research Letters, 1995, 22, 1-4.	4.0	29
51	Mapping spherical seismic into physical structure: biases from 3-D phase-transition and thermal boundary-layer heterogeneity. Geophysical Journal International, 2011, 184, 1371-1378.	2.4	29
52	Synthetic images of dynamically predicted plumes and comparison with a global tomographic model. Earth and Planetary Science Letters, 2011, 311, 351-363.	4.4	28
53	The mantle wedge's transient 3â€D flow regime and thermal structure. Geochemistry, Geophysics, Geosystems, 2016, 17, 78-100.	2.5	28
54	<i>P</i>- and<i>S</i>-wave delays caused by thermal plumes. Geophysical Journal International, 2016, 206, 1169-1178.	2.4	27

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55	Alongâ€Arc Heterogeneity in Local Seismicity across the Lesser Antilles Subduction Zone from a Dense Oceanâ€Bottom Seismometer Network. Seismological Research Letters, 2020, 91, 237-247.	1.9	26
56	A broadband P wave analysis of the large deep Fiji Island and Bolivia Earthquakes of 1994. Geophysical Research Letters, 1995, 22, 2249-2252.	4.0	24
57	Three-dimensional thermal modeling for the Mendocino Triple Junction area. Earth and Planetary Science Letters, 1997, 148, 45-57.	4.4	23
58	Evaluating the Resolution of Deep Mantle Plumes in Teleseismic Traveltime Tomography. Journal of Geophysical Research: Solid Earth, 2018, 123, 384-400.	3.4	23
59	Seismic Tomographic Imaging of the Eastern Mediterranean Mantle: Implications for Terminalâ€Stage Subduction, the Uplift of Anatolia, and the Development of the North Anatolian Fault. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009009.	2.5	23
60	Smallâ€scale thermal upwellings under the northern East African Rift from <i>S</i> travel time tomography. Journal of Geophysical Research: Solid Earth, 2016, 121, 7395-7408.	3.4	22
61	Global variation of body-wave attenuation in the upper mantle from teleseismic P wave and S wave spectra. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	21
62	Strong plates enhance mantle mixing in early Earth. Nature Communications, 2018, 9, 2708.	12.8	21
63	Subduction history of the Caribbean from upper-mantle seismic imaging and plate reconstruction. Nature Communications, 2021, 12, 4211.	12.8	21
64	Wideâ€Angle Seismic Imaging of Two Modes of Crustal Accretion in Mature Atlantic Ocean Crust. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019100.	3.4	20
65	Spatial variations of P wave attenuation in the mantle beneath North America. Journal of Geophysical Research, 2009, 114, .	3.3	19
66	The role of elasticity in slab bending. Geochemistry, Geophysics, Geosystems, 2014, 15, 4507-4525.	2.5	18
67	Evidence of Subductionâ€Related Thermal and Compositional Heterogeneity Below the United States From Transition Zone Receiver Functions. Geophysical Research Letters, 2018, 45, 8913-8922.	4.0	18
68	Shear-velocity structure of the Tyrrhenian Sea: Tectonics, volcanism and mantle (de)hydration of a back-arc basin. Earth and Planetary Science Letters, 2014, 400, 45-53.	4.4	17
69	Lithospheric cooling trends and deviations in oceanic <i>PPâ€P</i> and <i>SSâ€S</i> differential traveltimes. Journal of Geophysical Research: Solid Earth, 2013, 118, 996-1007.	3.4	15
70	Compositional heterogeneity near the base of the mantle transition zone beneath Hawaii. Nature Communications, 2018, 9, 1266.	12.8	15
71	The Complex Rupture Process of the 1996 Deep Flores, Indonesia Earthquake (Mw7.9) from teleseismic P-waves. Geophysical Research Letters, 1997, 24, 1295-1298.	4.0	14
72	Signals of 660Âkm topography and harzburgite enrichment in seismic images of wholeâ€mantle upwellings. Geophysical Research Letters, 2017, 44, 3600-3607.	4.0	13

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73	Continental margin subsidence from shallow mantle convection: Example from West Africa. Earth and Planetary Science Letters, 2018, 481, 350-361.	4.4	13
74	Thermal nature and resolution of the lithosphereâ€"asthenosphere boundary under the Pacific from surface waves. Geophysical Journal International, 2019, 216, 1441-1465.	2.4	11
75	Project VoiLA: Volatile Recycling in the Lesser Antilles. Eos, 2019, 100, .	0.1	11
76	Illuminating a Contorted Slab With a Complex Intraslab Rupture Evolution During the 2021 Mw 7.3 East Cape, New Zealand Earthquake. Geophysical Research Letters, 2021, 48, .	4.0	11
77	A dynamical model for generating Eurasian lithospheric stress and strain rate fields: Effect of rheology and cratons. Journal of Geophysical Research, 2008, 113, .	3.3	9
78	The Seismic Signature of Upperâ€Mantle Plumes: Application to the Northern East African Rift. Geochemistry, Geophysics, Geosystems, 2019, 20, 6106-6122.	2.5	9
79	Effects of basal drag on subduction dynamics from 2D numerical models. Solid Earth, 2021, 12, 79-93.	2.8	8
80	Imaging slab-transported fluids and their deep dehydration from seismic velocity tomography in the Lesser Antilles subduction zone. Earth and Planetary Science Letters, 2022, 586, 117535.	4.4	8
81	Thermo-compositional structure of the north-eastern Canadian Shield from Rayleigh wave dispersion analysis as a record of its tectonic history. Earth and Planetary Science Letters, 2020, 547, 116465.	4.4	7
82	Variation in Upper Plate Crustal and Lithospheric Mantle Structure in the Greater and Lesser Antilles From Ambient Noise Tomography. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009800.	2.5	7
83	Multivariate Statistical Appraisal of Regional Susceptibility to Induced Seismicity: Application to the Permian Basin, SW United States. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022768.	3.4	7
84	Lateral Variations in Thermochemical Structure of the Eastern Canadian Shield. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018734.	3.4	6
85	Widespread Hydration of the Back Arc and the Link to Variable Hydration of the Incoming Plate in the Lesser Antilles From Rayleigh Wave Imaging. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009707.	2.5	5
86	How Aseismic Ridges Modify the Dynamics of Free Subduction: A 3-D Numerical Investigation. Frontiers in Earth Science, 2022, 10, .	1.8	4
87	Western North America's jigsaw. Nature, 2013, 496, 35-37.	27.8	2
88	Computational methods for geodynamics. Geophysical Journal International, 2011, 184, 974-974.	2.4	0
89	Imaging mantle upwellings with seismic waves. Science Progress, 2000, 83 (Pt 3), 261-75.	1.9	0