

Saskia Goes

List of Publications by Year in descending order

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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	Imaging slab-transported fluids and their deep dehydration from seismic velocity tomography in the Lesser Antilles subduction zone. <i>Earth and Planetary Science Letters</i> , 2022, 586, 117535.	4.4	8
2	How Aseismic Ridges Modify the Dynamics of Free Subduction: A 3-D Numerical Investigation. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	4
3	Effects of basal drag on subduction dynamics from 2D numerical models. <i>Solid Earth</i> , 2021, 12, 79-93.	2.8	8
4	Widespread Hydration of the Back Arc and the Link to Variable Hydration of the Incoming Plate in the Lesser Antilles From Rayleigh Wave Imaging. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009707.	2.5	5
5	Subduction history of the Caribbean from upper-mantle seismic imaging and plate reconstruction. <i>Nature Communications</i> , 2021, 12, 4211.	12.8	21
6	Variation in Upper Plate Crustal and Lithospheric Mantle Structure in the Greater and Lesser Antilles From Ambient Noise Tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009800.	2.5	7
7	Multivariate Statistical Appraisal of Regional Susceptibility to Induced Seismicity: Application to the Permian Basin, SW United States. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022768.	3.4	7
8	Illuminating a Contorted Slab With a Complex Intraslab Rupture Evolution During the 2021 Mw 7.3 East Cape, New Zealand Earthquake. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	11
9	Along-Arc Heterogeneity in Local Seismicity across the Lesser Antilles Subduction Zone from a Dense Ocean-Bottom Seismometer Network. <i>Seismological Research Letters</i> , 2020, 91, 237-247.	1.9	26
10	Thermo-compositional structure of the north-eastern Canadian Shield from Rayleigh wave dispersion analysis as a record of its tectonic history. <i>Earth and Planetary Science Letters</i> , 2020, 547, 116465.	4.4	7
11	Lateral Variations in Thermochemical Structure of the Eastern Canadian Shield. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018734.	3.4	6
12	Continental lithospheric temperatures: A review. <i>Physics of the Earth and Planetary Interiors</i> , 2020, 306, 106509.	1.9	41
13	Variable water input controls evolution of the Lesser Antilles volcanic arc. <i>Nature</i> , 2020, 582, 525-529.	27.8	81
14	Seismic Tomographic Imaging of the Eastern Mediterranean Mantle: Implications for Terminal-Stage Subduction, the Uplift of Anatolia, and the Development of the North Anatolian Fault. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009009.	2.5	23
15	Wide-Angle Seismic Imaging of Two Modes of Crustal Accretion in Mature Atlantic Ocean Crust. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019100.	3.4	20
16	Rapid subduction initiation and magmatism in the Western Pacific driven by internal vertical forces. <i>Nature Communications</i> , 2020, 11, 1874.	12.8	66
17	The role of arc migration in the development of the Lesser Antilles: A new tectonic model for the Cenozoic evolution of the eastern Caribbean. <i>Geology</i> , 2019, 47, 891-895.	4.4	53
18	Thermal nature and resolution of the lithosphere-asthenosphere boundary under the Pacific from surface waves. <i>Geophysical Journal International</i> , 2019, 216, 1441-1465.	2.4	11

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19	Earthquakes track subduction fluids from slab source to mantle wedge sink. <i>Science Advances</i> , 2019, 5, eaav7369.	10.3	54
20	The Seismic Signature of Upperâ€Mantle Plumes: Application to the Northern East African Rift. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 6106-6122.	2.5	9
21	Project VoiLA: Volatile Recycling in the Lesser Antilles. <i>Eos</i> , 2019, 100, .	0.1	11
22	Seismic evidence for depth-dependent metasomatism in cratons. <i>Earth and Planetary Science Letters</i> , 2018, 491, 148-159.	4.4	42
23	Evaluating the Resolution of Deep Mantle Plumes in Teleseismic Traveltime Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 384-400.	3.4	23
24	Continental margin subsidence from shallow mantle convection: Example from West Africa. <i>Earth and Planetary Science Letters</i> , 2018, 481, 350-361.	4.4	13
25	Mantle wedge temperatures and their potential relation to volcanic arc location. <i>Earth and Planetary Science Letters</i> , 2018, 501, 67-77.	4.4	52
26	Strong plates enhance mantle mixing in early Earth. <i>Nature Communications</i> , 2018, 9, 2708.	12.8	21
27	Compositional heterogeneity near the base of the mantle transition zone beneath Hawaii. <i>Nature Communications</i> , 2018, 9, 1266.	12.8	15
28	Evidence of Subductionâ€Related Thermal and Compositional Heterogeneity Below the United States From Transition Zone Receiver Functions. <i>Geophysical Research Letters</i> , 2018, 45, 8913-8922.	4.0	18
29	Subducting-slab transition-zone interaction: Stagnation, penetration and mode switches. <i>Earth and Planetary Science Letters</i> , 2017, 464, 10-23.	4.4	83
30	Signals of 660â€km topography and harzburgite enrichment in seismic images of wholeâ€mantle upwellings. <i>Geophysical Research Letters</i> , 2017, 44, 3600-3607.	4.0	13
31	Subduction-transition zone interaction: A review. , 2017, 13, 644-664.		167
32	Smallâ€scale thermal upwellings under the northern East African Rift from <i>S</i> travel time tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7395-7408.	3.4	22
33	Reconciling mantle wedge thermal structure with arc lava thermobarometric determinations in oceanic subduction zones. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4105-4127.	2.5	31
34	<i>P</i> - and <i>S</i> -wave delays caused by thermal plumes. <i>Geophysical Journal International</i> , 2016, 206, 1169-1178.	2.4	27
35	The mantle wedge's transient 3â€D flow regime and thermal structure. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 78-100.	2.5	28
36	Multiple mantle upwellings in the transition zone beneath the northern African rift system from relative <i>P</i> -wave travelâ€time tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2949-2968.	2.5	52

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37	Thermally Dominated Deep Mantle LLSVPs: A Review. , 2015, , 441-477.		66
38	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
39	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
40	The effect of metastable pyroxene on the slab dynamics. Geophysical Research Letters, 2014, 41, 8800-8808.	4.0	44
41	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
42	A systematic 2â€ 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
43	Interaction of subducted slabs with the mantle transitionâ€zone: A regime diagram from 2â€ thermoâ€mechanical models with a mobile trench and an overriding plate. Geochemistry, Geophysics, Geosystems, 2014, 15, 1739-1765.	2.5	146
44	The role of elasticity in slab bending. Geochemistry, Geophysics, Geosystems, 2014, 15, 4507-4525.	2.5	18
45	Western North America's jigsaw. Nature, 2013, 496, 35-37.	27.8	2
46	Lithospheric cooling trends and deviations in oceanic <i>PPâ€</i> and <i>SSâ€</i> differential traveltimes. Journal of Geophysical Research: Solid Earth, 2013, 118, 996-1007.	3.4	15
47	Low seismic velocities below midâ€ocean ridges: Attenuation versus melt retention. Journal of Geophysical Research, 2012, 117, .	3.3	52
48	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
49	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
50	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
51	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
52	Computational methods for geodynamics. Geophysical Journal International, 2011, 184, 974-974.	2.4	0
53	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
54	Wavefront healing renders deep plumes seismically invisible. Geophysical Journal International, 2011, 187, 273-277.	2.4	36

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55	Complex cratonic seismic structure from thermal models of the lithosphere: effects of variations in deep radiogenic heating. <i>Geophysical Journal International</i> , 2010, 180, 999-1012.	2.4	40
56	Indiaâ€“Asia convergence driven by the subduction of the Greater Indian continent. <i>Nature Geoscience</i> , 2010, 3, 136-139.	12.9	183
57	Small-scale convection at the edge of the Colorado Plateau: Implications for topography, magmatism, and evolution of Proterozoic lithosphere. <i>Geology</i> , 2010, 38, 611-614.	4.4	149
58	Dynamics of plate bending at the trench and slabâ€“plate coupling. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	106
59	Thermochemical interpretation of 1â€“ seismic data for the lower mantle: The significance of nonadiabatic thermal gradients and compositional heterogeneity. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	57
60	Spatial variations of P wave attenuation in the mantle beneath North America. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	19
61	Evidence of lower-mantle slab penetration phases in plate motions. <i>Nature</i> , 2008, 451, 981-984.	27.8	129
62	Thermochemical interpretation of one-dimensional seismic reference models for the upper mantle: evidence for bias due to heterogeneity. <i>Geophysical Journal International</i> , 2008, 175, 627-648.	2.4	66
63	A dynamical model for generating Eurasian lithospheric stress and strain rate fields: Effect of rheology and cratons. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	9
64	Small-scale convection during continental rifting: Evidence from the Rio Grande rift. <i>Geology</i> , 2008, 36, 575.	4.4	67
65	Dynamic models of downgoing plate-buoyancy driven subduction: Subduction motions and energy dissipation. <i>Earth and Planetary Science Letters</i> , 2007, 262, 284-297.	4.4	148
66	Seismic potential of Southern Italy. <i>Tectonophysics</i> , 2006, 415, 81-101.	2.2	67
67	Mesozoic spreading kinematics: consequences for Cenozoic Central and Western Mediterranean subduction. <i>Geophysical Journal International</i> , 2006, 165, 804-816.	2.4	54
68	Is a pyrolitic adiabatic mantle compatible with seismic data?. <i>Earth and Planetary Science Letters</i> , 2005, 232, 227-243.	4.4	54
69	Seismic constraints on temperature of the Australian uppermost mantle. <i>Earth and Planetary Science Letters</i> , 2005, 236, 227-237.	4.4	55
70	One-dimensional physical reference models for the upper mantle and transition zone: Combining seismic and mineral physics constraints. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	53
71	Earthquake recurrence parameters from seismic and geodetic strain rates in the eastern Mediterranean. <i>Geophysical Journal International</i> , 2004, 157, 1331-1347.	2.4	61
72	A recent tectonic reorganization in the south-central Mediterranean. <i>Earth and Planetary Science Letters</i> , 2004, 226, 335-345.	4.4	219

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73	Synthetic seismic signature of thermal mantle plumes. <i>Earth and Planetary Science Letters</i> , 2004, 218, 403-419.	4.4	57
74	New GPS constraints on the Africa-Eurasia plate boundary zone in southern Italy. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	142
75	Inferring upper-mantle temperatures from seismic velocities. <i>Physics of the Earth and Planetary Interiors</i> , 2003, 138, 197-222.	1.9	477
76	Fate of the Cenozoic Farallon slab from a comparison of kinematic thermal modeling with tomographic images. <i>Earth and Planetary Science Letters</i> , 2002, 204, 17-32.	4.4	54
77	Thermal structure of the North American uppermost mantle inferred from seismic tomography. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 2-1.	3.3	243
78	The effect of plate stresses and shallow mantle temperatures on tectonics of northwestern Europe. <i>Global and Planetary Change</i> , 2000, 27, 23-38.	3.5	41
79	Thermal structure of continental upper mantle inferred from S-wave velocity and surface heat flow. <i>Earth and Planetary Science Letters</i> , 2000, 181, 395-407.	4.4	73
80	Shallow mantle temperatures under Europe from PandSwave tomography. <i>Journal of Geophysical Research</i> , 2000, 105, 11153-11169.	3.3	485
81	Active deformation in eastern Indonesia and the Philippines from GPS and seismicity data. <i>Journal of Geophysical Research</i> , 2000, 105, 663-680.	3.3	117
82	Imaging mantle upwellings with seismic waves. <i>Science Progress</i> , 2000, 83 (Pt 3), 261-75.	1.9	0
83	A Lower Mantle Source for Central European Volcanism. <i>Science</i> , 1999, 286, 1928-1931.	12.6	210
84	The Complex Rupture Process of the 1996 Deep Flores, Indonesia Earthquake (Mw7.9) from teleseismic P-waves. <i>Geophysical Research Letters</i> , 1997, 24, 1295-1298.	4.0	14
85	Three-dimensional thermal modeling for the Mendocino Triple Junction area. <i>Earth and Planetary Science Letters</i> , 1997, 148, 45-57.	4.4	23
86	Near-field deformation seen on distant broadband seismograms. <i>Geophysical Research Letters</i> , 1995, 22, 1-4.	4.0	29
87	A broadband P wave analysis of the large deep Fiji Island and Bolivia Earthquakes of 1994. <i>Geophysical Research Letters</i> , 1995, 22, 2249-2252.	4.0	24
88	How regularly do earthquakes recur? A synthetic seismicity model for the San Andreas Fault. <i>Geophysical Research Letters</i> , 1993, 20, 2131-2134.	4.0	43
89	Structure and seismicity of the Aegean subduction zone. <i>Terra Nova</i> , 1990, 2, 554-562.	2.1	39