

Magdalena Scheck Wenderoth

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105
papers

1,951
citations

27
h-index

38
g-index

140
ext. papers

2,290
ext. citations

2.9
avg, IF

4.99
L-index

#	Paper	IF	Citations
105	Crustal memory and basin evolution in the Central European Basin System—New insights from a 3D structural model. <i>Tectonophysics</i> , 2005 , 397, 143-165	3.1	114
104	Severity and timing of Cenozoic exhumation in the southwestern Barents Sea. <i>Journal of the Geological Society</i> , 2006 , 163, 761-774	2.7	80
103	Different modes of the Late Cretaceous–Early Tertiary inversion in the North German and Polish basins. <i>International Journal of Earth Sciences</i> , 2005 , 94, 782-798	2.2	71
102	Deep structure of the western South African passive margin—Results of a combined approach of seismic, gravity and isostatic investigations. <i>Tectonophysics</i> , 2009 , 470, 57-70	3.1	65
101	The long-term evolution of the Congo deep-sea fan: A basin-wide view of the interaction between a giant submarine fan and a mature passive margin (ZaiAngo project). <i>Tectonophysics</i> , 2009 , 470, 42-56	3.1	63
100	The Glueckstadt Graben, a sedimentary record between the North and Baltic Sea in north Central Europe. <i>Tectonophysics</i> , 2005 , 397, 113-126	3.1	53
99	Paleostress states at the south-western margin of the Central European Basin System—Application of fault-slip analysis to unravel a polyphase deformation pattern. <i>Tectonophysics</i> , 2009 , 470, 129-146	3.1	51
98	Modelling of fractured carbonate reservoirs: outline of a novel technique via a case study from the Molasse Basin, southern Bavaria, Germany. <i>Environmental Earth Sciences</i> , 2013 , 70, 3585-3602	2.9	49
97	The transition from the continent to the ocean: a deeper view on the Norwegian margin. <i>Journal of the Geological Society</i> , 2007 , 164, 855-868	2.7	44
96	A lithosphere-scale structural model of the Barents Sea and Kara Sea region. <i>Solid Earth</i> , 2015 , 6, 153-173	3.3	42
95	Basin evolution of the northern part of the Northeast German Basin—Insights from a 3D structural model. <i>Tectonophysics</i> , 2007 , 437, 1-16	3.1	41
94	3D lithosphere-scale density model of the Central European Basin System and adjacent areas. <i>Tectonophysics</i> , 2013 , 601, 53-77	3.1	38
93	The deep thermal field of the Upper Rhine Graben. <i>Tectonophysics</i> , 2017 , 694, 114-129	3.1	37
92	Tectonic subsidence history and thermal evolution of the Orange Basin. <i>Marine and Petroleum Geology</i> , 2010 , 27, 565-584	4.7	35
91	Sensitivity of 3D thermal models to the choice of boundary conditions and thermal properties: a case study for the area of Brandenburg (NE German Basin). <i>Environmental Earth Sciences</i> , 2012 , 67, 1695-1711	2.9	33
90	Assessment of the present-day thermal field (NE German Basin)—Inferences from 3D modelling. <i>Chemie Der Erde</i> , 2010 , 70, 47-62	4.3	33
89	Geothermal energy in sedimentary basins: What we can learn from regional numerical models. <i>Chemie Der Erde</i> , 2010 , 70, 33-46	4.3	33

88	Influence of fluid flow on the regional thermal field: results from 3D numerical modelling for the area of Brandenburg (North German Basin). <i>Environmental Earth Sciences</i> , 2013 , 70, 3523-3544	2.9	31
87	Structural features of the Southwest African continental margin according to results of lithosphere-scale 3D gravity and thermal modelling. <i>Tectonophysics</i> , 2013 , 604, 104-121	3.1	31
86	How warm are passive continental margins? A 3-D lithosphere-scale study from the Norwegian margin. <i>Geology</i> , 2008 , 36, 419	5	31
85	The Kenya rift revisited: insights into lithospheric strength through data-driven 3-D gravity and thermal modelling. <i>Solid Earth</i> , 2017 , 8, 45-81	3.3	30
84	Models of heat transport in the Central European Basin System: Effective mechanisms at different scales. <i>Marine and Petroleum Geology</i> , 2014 , 55, 315-331	4.7	30
83	Numerical Investigation of Thermoelastic Effects on Fault Slip Tendency during Injection and Production of Geothermal Fluids. <i>Energy Procedia</i> , 2015 , 76, 311-320	2.3	29
82	Characterization of main heat transport processes in the Northeast German Basin: Constraints from 3-D numerical models. <i>Geochemistry, Geophysics, Geosystems</i> , 2011 , 12, n/a-n/a	3.6	29
81	Impact of single inclined faults on the fluid flow and heat transport: results from 3-D finite element simulations. <i>Environmental Earth Sciences</i> , 2013 , 70, 3603-3618	2.9	28
80	Structure and evolution of the Glueckstadt Graben due to salt movements. <i>International Journal of Earth Sciences</i> , 2005 , 94, 799-814	2.2	28
79	Density contrasts in the upper mantle and lower crust across the continent-ocean transition: constraints from 3-D gravity modelling at the Norwegian margin. <i>Geophysical Journal International</i> , 2009 , 179, 536-548	2.6	27
78	Colorado Basin 3D structure and evolution, Argentine passive margin. <i>Tectonophysics</i> , 2013 , 604, 264-279	3.1	25
77	Salt as a 3D element in structural modeling [Example from the Central European Basin System. <i>Tectonophysics</i> , 2013 , 591, 62-82	3.1	25
76	Tectonic implications of the lithospheric structure across the Barents and Kara shelves. <i>Geological Society Special Publication</i> , 2018 , 460, 285-314	1.7	24
75	Deep 3D thermal modelling for the city of Berlin (Germany). <i>Environmental Earth Sciences</i> , 2013 , 70, 3545-3566	2.4	24
74	Influence of major fault zones on 3-D coupled fluid and heat transport for the Brandenburg region (NE German Basin). <i>Geothermal Energy Science</i> , 2014 , 2, 1-20		24
73	Lithospheric strength and elastic thickness of the Barents Sea and Kara Sea region. <i>Tectonophysics</i> , 2016 , 691, 120-132	3.1	23
72	Reconstruction of the southwestern African continental margin by backward modeling. <i>Marine and Petroleum Geology</i> , 2015 , 67, 544-555	4.7	22
71	Thermo-poroelastic numerical modelling for enhanced geothermal system performance: Case study of the Großschlöbebeck reservoir. <i>Tectonophysics</i> , 2016 , 684, 119-130	3.1	22

70	Controls on the deep thermal field: implications from 3-D numerical simulations for the geothermal research site Großschlöbebeck. <i>Environmental Earth Sciences</i> , 2013 , 70, 3619-3642	2.9	22
69	3D coupled fluid and heat transport simulations of the Northeast German Basin and their sensitivity to the spatial discretization: different sensitivities for different mechanisms of heat transport. <i>Environmental Earth Sciences</i> , 2013 , 70, 3643-3659	2.9	22
68	Deep Control on Shallow Heat in Sedimentary Basins. <i>Energy Procedia</i> , 2013 , 40, 266-275	2.3	22
67	3D structural model of the Polish Basin. <i>Tectonophysics</i> , 2005 , 397, 73-91	3.1	22
66	A 3D gravity and thermal model for the Barents Sea and Kara Sea. <i>Tectonophysics</i> , 2016 , 684, 131-147	3.1	21
65	Crustal structure beneath the Orange Basin, South Africa. <i>South African Journal of Geology</i> , 2007 , 110, 249-260	1.6	21
64	3D reconstruction of salt movements within the deepest post-Permian structure of the Central European Basin System - the Glueckstadt Graben. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2006 , 85, 181-196	1.1	21
63	A multi-stage 3-D stress field modelling approach exemplified in the Bavarian Molasse Basin. <i>Solid Earth</i> , 2016 , 7, 1365-1382	3.3	19
62	The origin of deep geothermal anomalies in the German Molasse Basin: results from 3D numerical models of coupled fluid flow and heat transport. <i>Geothermal Energy</i> , 2017 , 5,	3.3	17
61	Gravity signals from the lithosphere in the Central European Basin System. <i>Tectonophysics</i> , 2007 , 429, 133-163	3.1	17
60	Constraints on the tectonic evolution of the Central European Basin System revealed by seismic reflection profiles from Northern Germany. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2005 , 84, 389-401	1.1	17
59	Why intracontinental basins subside longer: 3-D feedback effects of lithospheric cooling and sedimentation on the flexural strength of the lithosphere. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 3742-3761	3.6	16
58	Influence of the Main Border Faults on the 3D Hydraulic Field of the Central Upper Rhine Graben. <i>Geofluids</i> , 2019 , 2019, 1-21	1.5	14
57	Paleostress field reconstruction in the Oslo region. <i>Marine and Petroleum Geology</i> , 2010 , 27, 682-708	4.7	14
56	Deep structure of the Argentine margin inferred from 3D gravity and temperature modelling, Colorado Basin. <i>Tectonophysics</i> , 2016 , 676, 198-210	3.1	12
55	Gas Hydrate Stability Zone of the Barents Sea and Kara Sea Region. <i>Energy Procedia</i> , 2016 , 97, 302-309	2.3	12
54	3D data-derived lithospheric structure of the Central Andes and its implications for deformation: Insights from gravity and geodynamic modelling. <i>Tectonophysics</i> , 2019 , 766, 453-468	3.1	11
53	The deep geothermal potential of the Berlin area. <i>Environmental Earth Sciences</i> , 2013 , 70, 3567-3584	2.9	11

52	The deep thermal field of the Glueckstadt Graben. <i>Environmental Earth Sciences</i> , 2013 , 70, 3505-3522	2.9	10
51	Density distribution across the Alpine lithosphere constrained by 3-D gravity modelling and relation to seismicity and deformation. <i>Solid Earth</i> , 2019 , 10, 2073-2088	3.3	10
50	Assessment of the isostatic state and the load distribution of the European Molasse basin by means of lithospheric-scale 3D structural and 3D gravity modelling. <i>International Journal of Earth Sciences</i> , 2015 , 104, 1405-1424	2.2	9
49	The deep structure of the South Atlantic Kwanza Basin – Insights from 3D structural and gravimetric modelling. <i>Tectonophysics</i> , 2013 , 604, 139-152	3.1	9
48	The 3D conductive thermal field of the North Alpine Foreland Basin: influence of the deep structure and the adjacent European Alps. <i>Geothermal Energy</i> , 2015 , 3,	3.3	9
47	The Glueckstadt Graben of the North-German Basin: new insights into the structure from 3D and 2D gravity analyses. <i>International Journal of Earth Sciences</i> , 2008 , 97, 915-930	2.2	9
46	Far field poroelastic response of geothermal reservoirs to hydraulic stimulation treatment: Theory and application at the Großschöbebeck geothermal research facility. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018 , 110, 316-327	6	9
45	Crust-scale 3D model of the Western Bredasdorp Basin (Southern South Africa): data-based insights from combined isostatic and 3D gravity modelling. <i>Basin Research</i> , 2015 , 27, 125-151	3.2	8
44	Deep vs. shallow controlling factors of the crustal thermal field – Insights from 3D modelling of the Beaufort-Mackenzie Basin (Arctic Canada). <i>Basin Research</i> , 2015 , 27, 102-123	3.2	8
43	A crust-scale 3D structural model of the Beaufort-Mackenzie Basin (Arctic Canada). <i>Tectonophysics</i> , 2013 , 591, 30-51	3.1	8
42	Backward modelling of the subsidence evolution of the Colorado Basin, offshore Argentina and its relation to the evolution of the conjugate Orange Basin, offshore SW Africa. <i>Tectonophysics</i> , 2017 , 716, 168-181	3.1	7
41	Hydro-Mechanical Evolution of Transport Properties in Porous Media: Constraints for Numerical Simulations. <i>Transport in Porous Media</i> , 2015 , 110, 409-428	3.1	7
40	Sensitivity of a 3D Geothermal Model of Berlin with Respect to Upper Boundary Conditions. <i>Energy Procedia</i> , 2015 , 76, 291-300	2.3	7
39	Surface to Groundwater Interactions beneath the City of Berlin: Results from 3D Models. <i>Geofluids</i> , 2019 , 2019, 1-22	1.5	6
38	Crustal Structure of the Andean Foreland in Northern Argentina: Results From Data-Integrative Three-Dimensional Density Modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 1875-1903	3.6	6
37	Coupled thermo-mechanical 3D subsidence analysis along the SW African passive continental margin. <i>Arabian Journal of Geosciences</i> , 2016 , 9, 1	1.8	6
36	Quaternary channels within the Northeast German Basin and their relevance on double diffusive convective transport processes: Constraints from 3-D thermohaline numerical simulations. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 3156-3175	3.6	6
35	Regional hydraulic model of the Upper Rhine Graben. <i>Advances in Geosciences</i> , 2013 , 49, 197-206		6

34	The 3D thermal field across the Alpine orogen and its forelands and the relation to seismicity. <i>Global and Planetary Change</i> , 2020 , 193, 103288	4.2	6
33	The Effects of Regional Fluid Flow on Deep Temperatures (Hesse, Germany). <i>Energies</i> , 2019 , 12, 2081	3.1	6
32	Variability of the geothermal gradient across two differently aged magma-rich continental rifted margins of the Atlantic Ocean: the Southwest African and the Norwegian margins. <i>Solid Earth</i> , 2018 , 9, 139-158	3.3	6
31	Lithospheric 3D gravity modelling using upper-mantle density constraints: Towards a characterization of the crustal configuration in the North Patagonian Massif area, Argentina. <i>Tectonophysics</i> , 2017 , 700-701, 150-161	3.1	5
30	3-D crustal density model of the Sea of Marmara. <i>Solid Earth</i> , 2019 , 10, 785-807	3.3	5
29	Modelling the Surface Heat Flow Distribution in the Area of Brandenburg (Northern Germany). <i>Energy Procedia</i> , 2013 , 40, 545-553	2.3	5
28	Regional-scale structural role of Permian salt within the Central European Basin System. <i>Geological Society Special Publication</i> , 2012 , 363, 409-430	1.7	5
27	Modelling the coupling between salt kinematics and subsidence evolution: Inferences for the Miocene evolution of the Transylvanian Basin. <i>Tectonophysics</i> , 2015 , 658, 169-185	3.1	4
26	Lithospheric density structure of the southern Central Andes constrained by 3D data-integrative gravity modelling. <i>International Journal of Earth Sciences</i> , 2020 , 110, 2333	2.2	4
25	3-D Modeling of Vertical Gravity Gradients and the Delimitation of Tectonic Boundaries: The Caribbean Oceanic Domain as a Case Study. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 5371-5393	3.6	4
24	Heterogeneous Crystalline Crust Controls the Shallow Thermal Field – A Case Study of Hessen (Germany). <i>Energy Procedia</i> , 2015 , 76, 331-340	2.3	4
23	Salt Dynamics 2008 , 248-344		4
22	The Geothermal Field Below the City of Berlin, Germany: Results from Structurally and Parametrically Improved 3D Models. <i>Energy Procedia</i> , 2016 , 97, 334-341	2.3	4
21	Lithospheric Control on Asthenospheric Flow From the Iceland Plume: 3-D Density Modeling of the Jan Mayen-East Greenland Region, NE Atlantic. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 9223-9248	3.6	4
20	3D gravity modelling of Colorado and Claromec basins: new evidences for the evolution of the southwestern margin of Gondwana. <i>International Journal of Earth Sciences</i> , 2020 , 110, 2295	2.2	3
19	3D crustal stress state of Germany according to a data-calibrated geomechanical model. <i>Solid Earth</i> , 2021 , 12, 1777-1799	3.3	3
18	Processes Responsible for Localized Deformation within Porous Rocks: Insights from Laboratory Experiments and Numerical Modeling 2017 ,		2
17	Boundary condition control on inter-aquifer flow in the subsurface of Berlin (Germany) – new insights from 3-D numerical modelling. <i>Advances in Geosciences</i> , 2017 , 49, 9-18		2

16	A lithosphere-scale structural model of the Barents Sea and Kara Sea region		2
15	Strain and Temperature an Space and Time 2008 , 36-153		2
14	The preserved plume of the Caribbean Large Igneous Plateau revealed by 3D data-integrative models. <i>Solid Earth</i> , 2021 , 12, 275-298	3.3	2
13	Overcoming Spatial Scales in Geothermal Modelling for Urban Areas. <i>Energy Procedia</i> , 2017 , 125, 98-105	2.3	1
12	Present-day thermal field and Mesozoic-Cenozoic thermal evolution of the Western Bredasdorp Basin (South Africa): An integrated 3D numerical forward modelling approach. <i>Marine and Petroleum Geology</i> , 2018 , 93, 57-78	4.7	1
11	The application of inverse modeling in characterizing hydraulic conductivity beneath the city of Berlin, Germany. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	1
10	Research on Utilization of Geo-energy. <i>Energy Procedia</i> , 2013 , 40, 249-255	2.3	1
9	Dynamics and Active Processes: the Albanian Natural Laboratory and Analogues. <i>Italian Journal of Geosciences</i> , 2013 , 132, 169-174	1.7	1
8	3-D Simulations of Groundwater Utilization in an Urban Catchment of Berlin, Germany. <i>Advances in Geosciences</i> , 45 , 177-184		1
7	Influence of Lithosphere Rheology on Seismicity in an Intracontinental Rift: The Case of the Rhine Graben. <i>Frontiers in Earth Science</i> , 2020 , 8,	3.5	1
6	Distribution of Temperature and Strength in the Central Andean Lithosphere and Its Relationship to Seismicity and Active Deformation. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021231	3.6	1
5	Crustal Density Model of the Sea of Marmara: Geophysical Data Integration and 3D Gravity Modelling 2018 ,		1
4	Lithospheric strength variations and seismotectonic segmentation below the Sea of Marmara. <i>Tectonophysics</i> , 2021 , 815, 228999	3.1	1
3	Dissolved CO2 Storage in Geological Formations with Low Pressure, Low Risk and Large Capacities. <i>Energy Procedia</i> , 2017 , 114, 4722-4727	2.3	
2	The recent stress state of Germany [results of a geomechanical numerical 3D model]		1, 163-164
1	Unravelling the lithospheric-scale thermal field of the North Patagonian Massif plateau (Argentina) and its relations to the topographic evolution of the area. <i>International Journal of Earth Sciences</i> , 2020 , 110, 2315	2.2	