

Giovanni Bertotti

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papers

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h-index

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124
ext. papers

3,622
ext. citations

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L-index

#	Paper	IF	Citations
114	From rifting to drifting: tectonic evolution of the South-Alpine upper crust from the Triassic to the Early Cretaceous. <i>Sedimentary Geology</i> , 1993 , 86, 53-76	2.8	246
113	Thermo-mechanical controls on the mode of continental collision in the SE Carpathians (Romania). <i>Earth and Planetary Science Letters</i> , 2004 , 218, 57-76	5.3	131
112	Tertiary tectonic evolution of the external East Carpathians (Romania). <i>Tectonophysics</i> , 2000 , 316, 255-286	2.8	121
111	Towards an astrochronological framework for the eastern Paratethys Miocene sedimentary sequences of the Focșani basin (Romania). <i>Earth and Planetary Science Letters</i> , 2004 , 227, 231-247	5.3	106
110	Large-scale deformation in a locked collisional boundary: Interplay between subsidence and uplift, intraplate stress, and inherited lithospheric structure in the late stage of the SE Carpathians evolution. <i>Tectonics</i> , 2007 , 26, n/a-n/a	4.3	98
109	Subsidence analysis and tectonic evolution of the external Carpathian-Moesian Platform region during Neogene times. <i>Sedimentary Geology</i> , 2003 , 156, 71-94	2.8	94
108	Architecture of the Focșani Depression: A 13 km deep basin in the Carpathians bend zone (Romania). <i>Tectonics</i> , 2003 , 22, n/a-n/a	4.3	83
107	Unexpected Jurassic to Neogene vertical movements in stable parts of NW Africa revealed by low temperature geochronology. <i>Terra Nova</i> , 2008 , 20, 355-363	3	68
106	Extension controls Quaternary tectonics, geomorphology and sedimentation of the N-Appennines foothills and adjacent Po Plain (Italy). <i>Tectonophysics</i> , 1997 , 282, 291-301	3.1	65
105	Episodic exhumation in the Western Alps. <i>Geology</i> , 2003 , 31, 601	5	64
104	Neogene to Quaternary sedimentary basins in the south Adriatic (Central Mediterranean): Foredeeps and lithospheric buckling. <i>Tectonics</i> , 2001 , 20, 771-787	4.3	62
103	An integrated workflow for stress and flow modelling using outcrop-derived discrete fracture networks. <i>Computers and Geosciences</i> , 2017 , 103, 21-35	4.5	59
102	Thermo-mechanical modeling of the Tyrrhenian Sea: Lithospheric necking and kinematics of rifting. <i>Tectonics</i> , 1995 , 14, 629-644	4.3	56
101	Barremian-lower Aptian Qishn Formation, Haushi-Huqf area, Oman: a new outcrop analogue for the Kharaiib/Shu'iba reservoirs. <i>Georabia</i> , 2004 , 9, 153-194		55
100	The impact of different aperture distribution models and critical stress criteria on equivalent permeability in fractured rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 4045-4063	3.6	55
99	Late orogenic vertical movements in the Carpathian Bend Zone: seismic constraints on the transition zone from orogen to foredeep. <i>Basin Research</i> , 2006 , 18, 521-545	3.2	54
98	Tertiary tectonic evolution of the external South Carpathians and the adjacent Moesian platform (Romania). <i>Tectonics</i> , 1997 , 16, 896-911	4.3	53

97	Multiscale fracture network characterization and impact on flow: A case study on the Latemar carbonate platform. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 8197-8222	3.6	52
96	Pre-orogenic tectonics in the UmbriaMarche sector of the Afro-Adriatic continental margin. <i>Tectonophysics</i> , 1999 , 315, 123-143	3.1	52
95	Rifted margin formation in the south Tyrrhenian Sea: A high-resolution seismic profile across the north Sicily passive continental margin. <i>Tectonics</i> , 2000 , 19, 241-257	4.3	51
94	Vertical movements in and around the south-east Carpathian foredeep: lithospheric memory and stress field control. <i>Terra Nova</i> , 2003 , 15, 299-305	3	48
93	Thermomechanical evolution of the South Alpine rifted margin (North Italy): constraints on the strength of passive continental margins. <i>Earth and Planetary Science Letters</i> , 1997 , 146, 181-193	5.3	46
92	Structural highs formation and their relationship to sedimentary basins in the north Sicily continental margin (southern Tyrrhenian Sea): Implication for the Drepano Thrust Front. <i>Tectonophysics</i> , 2005 , 409, 1-18	3.1	46
91	Thermal effects of normal faulting during rifted basin formation, 1. A finite difference model. <i>Tectonophysics</i> , 1994 , 240, 133-144	3.1	45
90	Calibrating discrete fracture-network models with a carbonate three-dimensional outcrop fracture network: Implications for naturally fractured reservoir modeling. <i>AAPG Bulletin</i> , 2014 , 98, 1351-1376	2.5	44
89	The influence of a stratified rheology on the flexural response of the lithosphere to (un)loading by extensional faulting. <i>Geophysical Journal International</i> , 1998 , 134, 721-735	2.6	43
88	Crustal thermal regime prior to, during, and after rifting: A geochronological and modeling study of the Mesozoic South Alpine rifted margin. <i>Tectonics</i> , 1999 , 18, 185-200	4.3	43
87	DigiFract: A software and data model implementation for flexible acquisition and processing of fracture data from outcrops. <i>Computers and Geosciences</i> , 2013 , 54, 326-336	4.5	42
86	Tectonic history along the South Gabon Basin: Anomalous early post-rift subsidence. <i>Marine and Petroleum Geology</i> , 2007 , 24, 151-172	4.7	42
85	Late Miocene to present exhumation in the Ligurian Alps (southwest Alps) with evidence for accelerated denudation during the Messinian salinity crisis. <i>Geology</i> , 2003 , 31, 797	5	40
84	Dynamic link between the level of ductile crustal flow and style of normal faulting of brittle crust. <i>Tectonophysics</i> , 2000 , 320, 195-218	3.1	40
83	Structural evolution of the Transylvanian Basin (Romania): a sedimentary basin in the bend zone of the Carpathians. <i>Tectonophysics</i> , 1997 , 272, 249-268	3.1	39
82	Deformation and metamorphism associated with crustal rifting: The Permian to Liassic evolution of the Lake Lugano-Lake Como area (Southern Alps). <i>Tectonophysics</i> , 1993 , 226, 271-284	3.1	39
81	Multi-scale fracture network analysis from an outcrop analogue: A case study from the Cambro-Ordovician clastic succession in Petra, Jordan. <i>Marine and Petroleum Geology</i> , 2012 , 38, 104-116	4.7	38
80	The impact of in-situ stress and outcrop-based fracture geometry on hydraulic aperture and upscaled permeability in fractured reservoirs. <i>Tectonophysics</i> , 2016 , 690, 63-75	3.1	38

79	Oligocene to Present kilometres scale subsidence and exhumation of the Ligurian Alps and the Tertiary Piedmont Basin (NW Italy) revealed by apatite (U ²³⁵)/He thermochronology: correlation with regional tectonics. <i>Terra Nova</i> , 2006 , 18, 18-25	3	36
78	Role of the 3-D distributions of load and lithospheric strength in orogenic arcs: polystage subsidence in the Carpathians foredeep. <i>Earth and Planetary Science Letters</i> , 2004 , 221, 163-180	5.3	36
77	Thermal effects of normal faulting during rifted basin formation, 2. The Lugano-Val Grande normal fault and the role of pre-existing thermal anomalies. <i>Tectonophysics</i> , 1994 , 240, 145-157	3.1	36
76	Post-Variscan evolution of the Anti-Atlas belt of Morocco constrained from low-temperature geochronology. <i>International Journal of Earth Sciences</i> , 2017 , 106, 593-616	2.2	34
75	Post-rift vertical movements and horizontal deformations in the eastern margin of the Central Atlantic: Middle Jurassic to Early Cretaceous evolution of Morocco. <i>International Journal of Earth Sciences</i> , 2012 , 101, 2151-2165	2.2	30
74	Pattern and rate of post-20 ka vertical tectonic motion around the Capo Vaticano Promontory (W Calabria, Italy) based on offshore geomorphological indicators. <i>Quaternary International</i> , 2014 , 332, 85-98	2.2	27
73	Architecture and Neogene to Recent evolution of the western Calabrian continental margin: An upper plate perspective to the Ionian subduction system, central Mediterranean. <i>Tectonics</i> , 2010 , 29,	4.3	27
72	A geometrically based method for predicting stress-induced fracture aperture and flow in discrete fracture networks. <i>AAPG Bulletin</i> , 2016 , 100, 1075-1097	2.5	26
71	Inter-well scale natural fracture geometry and permeability variations in low-deformation carbonate rocks. <i>Journal of Structural Geology</i> , 2017 , 97, 23-36	3	25
70	Kinematic and thermal evolution of the Moroccan rifted continental margin: Doukkala-High Atlas transect. <i>Tectonics</i> , 2010 , 29, n/a-n/a	4.3	25
69	Fracturing and calcite cementation controlling fluid flow in the shallow-water carbonates of the Jandaíba Formation, Brazil. <i>Marine and Petroleum Geology</i> , 2017 , 80, 382-393	4.7	24
68	Fracturing and fluid-flow during post-rift subsidence in carbonates of the Jandaíba Formation, Potiguar Basin, NE Brazil. <i>Basin Research</i> , 2017 , 29, 836-853	3.2	23
67	Are stylolites fluid-flow efficient features?. <i>Journal of Structural Geology</i> , 2019 , 125, 270-277	3	23
66	Structure of the Gabon Margin from integrated seismic reflection and gravity data. <i>Tectonophysics</i> , 2011 , 506, 31-45	3.1	23
65	Flexural response of the Venetian foreland to the Southalpine tectonics along the TRANSALP profile. <i>Terra Nova</i> , 2004 , 16, 273-280	3	22
64	Postrift stress field inversion in the Potiguar Basin, Brazil [Implications for petroleum systems and evolution of the equatorial margin of South America. <i>Marine and Petroleum Geology</i> , 2020 , 111, 88-104	4.7	22
63	Testing the preservation potential of early diagenetic dolomites as geochemical archives. <i>Sedimentology</i> , 2020 , 67, 849-881	3.3	21
62	Toward a quantitative definition of mechanical units: New techniques and results from an outcropping deep-water turbidite succession (Tanqua-Karoo Basin, South Africa). <i>AAPG Bulletin</i> , 2007 , 91, 1085-1098	2.5	20

61	Tectono-stratigraphic modelling of the Sardinian margin of the Tyrrhenian Sea. <i>Tectonophysics</i> , 1995 , 252, 269-284	3.1	20
60	Tectono-stratigraphic modelling of the North Sicily continental margin (southern Tyrrhenian Sea). <i>Tectonophysics</i> , 2004 , 384, 257-273	3.1	17
59	Lithospheric weakening during foreland basin formation: Tectonic evolution of the central South Alpine foredeep. <i>Tectonics</i> , 1998 , 17, 131-142	4.3	17
58	Distributed fracturing affecting isolated carbonate platforms, the Latemar Platform Natural Laboratory (Dolomites, North Italy). <i>Marine and Petroleum Geology</i> , 2013 , 40, 69-84	4.7	16
57	A new methodology to train fracture network simulation using multiple-point statistics. <i>Solid Earth</i> , 2019 , 10, 537-559	3.3	15
56	Late-orogenic vertical movements within the arc of the SW Alps and Ligurian Alps. <i>Tectonophysics</i> , 2009 , 475, 117-127	3.1	15
55	The effects of a lateral variation in lithospheric strength on foredeep evolution: Implications for the East Carpathian foredeep. <i>Tectonophysics</i> , 2006 , 421, 251-267	3.1	15
54	The mechanical contrast between layers controls fracture containment in layered rocks. <i>Journal of Structural Geology</i> , 2019 , 127, 103856	3	14
53	The geology of vertical movements of the lithosphere: An overview. <i>Tectonophysics</i> , 2009 , 475, 1-8	3.1	14
52	Lateral variations of thermo-mechanical properties in the Tyrrhenian-Northern Apennine region. <i>Tectonophysics</i> , 1998 , 300, 143-158	3.1	14
51	Analysing the limitations of the dual-porosity response during well tests in naturally fractured reservoirs. <i>Petroleum Geoscience</i> , 2019 , 25, 30-49	1.9	14
50	Fracture-network analysis of the Latemar Platform (northern Italy): integrating outcrop studies to constrain the hydraulic properties of fractures in reservoir models. <i>Petroleum Geoscience</i> , 2014 , 20, 79-92	1.9	13
49	Probing tectonic topography in the aftermath of continental convergence in central Europe. <i>Eos</i> , 2003 , 84, 89	1.5	12
48	The Sidi Ifni transect across the rifted margin of Morocco (Central Atlantic): Vertical movements constrained by low-temperature thermochronology. <i>Journal of African Earth Sciences</i> , 2018 , 141, 22-32	2.2	11
47	Rift fault geometry and evolution in the Cretaceous Potiguar Basin (NE Brazil) based on fault growth models. <i>Journal of South American Earth Sciences</i> , 2016 , 71, 96-107	2	11
46	Rifting and pre-rift lithosphere variability in the Orphan Basin, Newfoundland margin, Eastern Canada. <i>Basin Research</i> , 2015 , 27, 367-386	3.2	11
45	Burial and temperature evolution in thrust belt systems: Sedimentary and thrust sheet loading in the SE Canadian Cordillera. <i>Tectonics</i> , 2009 , 28, n/a-n/a	4.3	11
44	Monoclinial flexure of an orogenic plateau margin during subduction, south Turkey. <i>Basin Research</i> , 2019 , 31, 709-727	3.2	10

43	Intraplate uplift: new constraints on the Hoggar dome from the Illizi basin (Algeria). <i>Basin Research</i> , 2017 , 29, 377-393	3.2	9
42	Linking natural fractures to karst cave development: a case study combining drone imagery, a natural cave network and numerical modelling. <i>Petroleum Geoscience</i> , 2019 , 25, 454-469	1.9	9
41	The Transylvanian basin, transfer zone between coeval extending and contracting regions: Inferences on the relative importance of slab pull and rift push in arcBack arc systems. <i>Tectonics</i> , 2002 , 21, 2-1-2-18	4.3	9
40	The morphology of a Messinian valley and its hinterland (Ventimiglia, NW Italy): a Miocene to Pliocene reconstruction. <i>Geological Journal</i> , 2006 , 41, 465-480	1.7	8
39	Detecting provenance variations and cooling patterns within the western Alpine orogen through ⁴⁰ Ar/ ³⁹ Ar geochronology on detrital sediments: The Tertiary Piedmont Basin, northwest Italy 2004		8
38	An automated fracture trace detection technique using the complex shearlet transform. <i>Solid Earth</i> , 2019 , 10, 2137-2166	3.3	8
37	Mechanical controls on horizontal stresses and fracture behaviour in layered rocks: A numerical sensitivity analysis. <i>Journal of Structural Geology</i> , 2020 , 130, 103907	3	8
36	Sedimentologic and reservoir characteristics under a tectono-sequence stratigraphic framework: A case study from the Early Cretaceous, upper Abu Gabra sandstones, Sufyan Sub-basin, Muglad Basin, Sudan. <i>Journal of African Earth Sciences</i> , 2018 , 142, 22-43	2.2	7
35	Quantitative analysis of the tectonic subsidence in the Potiguar Basin (NE Brazil). <i>Journal of Geodynamics</i> , 2018 , 117, 60-74	2.2	7
34	Subsidence, stress regime and rotation(s) of a tectonically active sedimentary basin within the western Alpine Orogen: the Tertiary Piedmont Basin (Alpine domain, NW Italy). <i>Geological Society Special Publication</i> , 2003 , 208, 205-227	1.7	7
33	Flow pathways in multiple-direction fold hinges: Implications for fractured and karstified carbonate reservoirs. <i>Journal of Structural Geology</i> , 2021 , 146, 104324	3	7
32	3-D Architecture and Plio-Quaternary Evolution of the Paola Basin: Insights Into the Forearc of the Tyrrhenian-Ionian Subduction System. <i>Tectonics</i> , 2020 , 39, e2019TC005898	4.3	6
31	Mechanical Factors Controlling the Development of Orthogonal and Nested Fracture Network Geometries. <i>Rock Mechanics and Rock Engineering</i> , 2018 , 51, 3455-3469	5.7	6
30	FEM analysis of deformation localization mechanisms in a 3-D fractured medium under rotating compressive stress orientations. <i>Tectonophysics</i> , 2013 , 593, 95-110	3.1	6
29	Stratigraphic and regional distribution of fractures in Barremian-Aptian carbonate rocks of Eastern Oman: outcrop data and their extrapolation to Interior Oman hydrocarbon reservoirs. <i>International Journal of Earth Sciences</i> , 2005 , 94, 447-461	2.2	6
28	Using Outcrop Data for Geological Well Test Modelling in Fractured Reservoirs 2015 ,		6
27	New Evidence of 'Anomalous' Vertical Movements along the Hinterland of the Atlantic NW African Margin. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 13333-13353	3.6	6
26	Low-temperature thermochronology as a control on vertical movements for semi-quantitative source-to-sink analysis: A case study for the Permian to Neogene of Morocco and surroundings. <i>Basin Research</i> , 2021 , 33, 1337-1383	3.2	6

25	Mapping the fracture network in the Lilstock pavement, Bristol Channel, UK: manual versus automatic. <i>Solid Earth</i> , 2020 , 11, 1773-1802	3.3	5
24	Kinematics of the SE Canadian Fold and Thrust Belt: Implications for the Thermal and Organic Maturation History 2007 , 179-202		5
23	Natural fault and fracture network characterization for the southern Ekofisk field: A case study integrating seismic attribute analysis with image log interpretation. <i>Journal of Structural Geology</i> , 2020 , 141, 104197	3	5
22	Assessing the Validity and Limitations of Dual-porosity Models Using Geological Well Testing for Fractured Formations 2016 ,		4
21	Anticline growth by shortening during crustal exhumation of the Moroccan Atlantic margin. <i>Journal of Structural Geology</i> , 2020 , 140, 104125	3	4
20	Fracture distribution along an Upper Jurassic carbonate ramp, NE Spain. <i>Marine and Petroleum Geology</i> , 2016 , 70, 201-221	4.7	4
19	Subsidence, deformation, thermal and mechanical evolution of the Mesozoic South Alpine rifted margin: an analogue for Atlantic-type margins. <i>Geological Society Special Publication</i> , 2001 , 187, 125-141	1.7	4
18	Natural fracture system of the Cambro-Permian Wajid Group, Wadi Al-Dawasir, SW Saudi Arabia. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 175, 140-158	4.4	4
17	Mesozoic and Cenozoic thermal history of the Western Reguibat Shield (West African Craton). <i>Terra Nova</i> , 2018 , 30, 135-145	3	4
16	The Morro Vermelho hypogenic karst system (Brazil): Stratigraphy, fractures, and flow in a carbonate strike-slip fault zone with implications for carbonate reservoirs. <i>AAPG Bulletin</i> , 2020 , 104, 2029-2050	2.5	3
15	Morphology and topology of dolostone lithons in the regional Carboneras Fault Zone, Southern Spain. <i>Journal of Structural Geology</i> , 2020 , 137, 104073	3	3
14	Syn-depositional Mesozoic siliciclastic pathways on the Moroccan Atlantic margin linked to evaporite mobilisation. <i>Marine and Petroleum Geology</i> , 2021 , 128, 105018	4.7	3
13	Large-scale natural fracture network patterns: Insights from automated mapping in the Lilstock (Bristol Channel) limestone outcrops. <i>Journal of Structural Geology</i> , 2021 , 150, 104405	3	3
12	Summary of the AAPG SPESEG Hedberg Research Conference on Fundamental Controls on Flow in Carbonates. <i>AAPG Bulletin</i> , 2013 , 97, 533-552	2.5	2
11	Outcropping Analogs and Multiscale Fracture Patterns in the Janda Formation 2013 ,		2
10	Coupled Stress-fluid Pressure Modelling of Stimulated Rock Volume in Shale - Impact of Natural Fractures and Beef 2016 ,		2
9	An Integrated Multiscale Method for the Characterisation of Active Faults in Offshore Areas. The Case of Sant'Eufemia Gulf (Offshore Calabria, Italy). <i>Frontiers in Earth Science</i> , 2021 , 9,	3.5	2
8	Predicting Multi-scale Deformation and Fluid Flow Patterns in Folds Using 3D Outcrop Models and Mechanical Modelling 2014 ,		1

7	Comment on: Uplift and contractional deformation along a segmented strike-slip fault system: the Gargano Promontory, southern Italy by C.M. Brankman and A. Aydin [Journal of Structural Geology, 26, 807-824]. <i>Journal of Structural Geology</i> , 2004 , 26, 2325-2326	3	1
6	The impact of natural fractures on heat extraction from tight Triassic sandstones in the West Netherlands Basin: a case study combining well, seismic and numerical data. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2021 , 100,	1.1	1
5	Investigating spatial heterogeneity within fracture networks using hierarchical clustering and graph distance metrics. <i>Solid Earth</i> , 2021 , 12, 2159-2209	3.3	1
4	Silicification, flow pathways, and deep-seated hypogene dissolution controlled by structural and stratigraphic variability in a carbonate-siliciclastic sequence (Brazil). <i>Marine and Petroleum Geology</i> , 2022 , 139, 105611	4.7	1
3	Modeling of multiphase mass and heat transfer in fractured high-enthalpy geothermal systems with advanced discrete fracture methodology. <i>Advances in Water Resources</i> , 2021 , 154, 103985	4.7	0
2	Discussion of Velocity description of deformation. Paper 3: the effects of temperature dependent rheology on extensional basin architecture by Willacy, Waltham and McClay (1995). <i>Marine and Petroleum Geology</i> , 1996 , 13, 847	4.7	
1	Vertical Movements and Source-to-Sink Systems of the Rifted Margin of NW Africa: Surprises Continue. <i>Advances in Science, Technology and Innovation</i> , 2022 , 545-548	0.3	