Joerg Bialas

List of Publications by Citations

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74 papers	2,538 citations	27 h-index	48 g-index
82 ext. papers	2,871 ext. citations	3.7 avg, IF	4.53 L-index

#	Paper	IF	Citations
74	Tectonic and geological framework for gas hydrates and cold seeps on the Hikurangi subduction margin, New Zealand. *Marine Geology*, **2010**, 272, 26-48	3.3	203
73	Structure of the Makran subduction zone from wide-angle and reflection seismic data. *Tectonophysics*, **2000**, 329, 171-191	3.1	172
72	Passive and active seismological study of bending-related faulting and mantle serpentinization at the Middle America trench. *Earth and Planetary Science Letters*, **2007**, 258, 528-542	5.3	115
71	Mud volcanoes and gas hydrates in the Black Sea: new data from Dvurechenskii and Odessa mud volcanoes. *Geo-Marine Letters*, **2003**, 23, 239-249	1.9	105
70	Methane seepage along the Hikurangi Margin, New Zealand: Overview of studies in 2006 and 2007 and new evidence from visual, bathymetric and hydroacoustic investigations. *Marine Geology*, **2010**, 272, 6-25	3.3	94
69	New seismic images of the Cascadia subduction zone from cruise SO108 □ORWELL. *Tectonophysics*, **1998**, 293, 69-84	3.1	89
68	Pockmarks in the Northern Congo Fan area, SW Africa: Complex seafloor features shaped by fluid flow. *Marine Geology*, **2008**, 249, 206-225	3.3	84
67	Seismic structure of Cocos and Malpelo Volcanic Ridges and implications for hot spot-ridge interaction. *Journal of Geophysical Research*, **2003**, 108,		83
66	Crustal structure of the Middle American Trench off Costa Rica from wide-angle seismic data. *Tectonics*, **1996**, 15, 1006-1021	4.3	82
65	Crustal structure of the central Sunda margin at the onset of oblique subduction. *Geophysical Journal International*, **2001**, 147, 449-474	2.6	81
64	Crustal architecture and deep structure of the Ninetyeast Ridge hotspot trail from active-source ocean bottom seismology. *Geophysical Journal International*, **2001**, 144, 414-431	2.6	78
63	Seismic structure of the Carnegie ridge and the nature of the Gal□agos hotspot. *Geophysical Journal International*, **2005**, 161, 763-788	2.6	70
62	Morphotectonics of the Pacific convergent margin of Costa Rica. *Special Paper of the Geological Society of America*, **1995**, 291-308		67
61	Ridge subduction at an erosive margin: The collision zone of the Nazca Ridge in southern Peru. *Journal of Geophysical Research*, **2004**, 109,		65
60	Serpentinization in the trench-outer rise region offshore of Nicaragua: constraints from seismic refraction and wide-angle data. *Geophysical Journal International*, **2010**, 180, 1253-1264	2.6	60
59	Crustal structure of the Java margin from seismic wide-angle and multichannel reflection data. *Journal of Geophysical Research*, **2002**, 107, ETG 1-1		58
58	Seismic investigation of the continental margin off- and onshore Valparaiso, Chile. *Tectonophysics*, **1998**, 288, 251-263	3.1	54

57	Crustal structure of the Peruvian continental margin from wide-angle seismic studies. *Geophysical Journal International*, **2004**, 159, 749-764	2.6	49
56	The link between bottom-simulating reflections and methane flux into the gas hydrate stability zone new evidence from Lima Basin, Peru Margin. *Earth and Planetary Science Letters*, **2001**, 185, 343-354	5.3	49
55	Gas-controlled seafloor doming. *Geology*, **2015**, 43, 571-574	5	43
54	On the origin of multiple BSRs in the Danube deep-sea fan, Black Sea. *Earth and Planetary Science Letters*, **2017**, 462, 15-25	5.3	41
53	The structures beneath submarine methane seeps: Seismic evidence from Opouawe Bank, Hikurangi Margin, New Zealand. *Marine Geology*, **2010**, 272, 59-70	3.3	41
52	Hydrate occurrence in Europe: A review of available evidence. *Marine and Petroleum Geology*, **2020**, 111, 735-764	4.7	37
51	Intraplate seismicity and related mantle hydration at the Nicaraguan trench outer rise. *Geophysical Journal International*, **2009**, 178, 742-752	2.6	36
50	The impact of fluid advection on gas hydrate stability: Investigations at sites of methane seepage offshore Costa Rica. *Earth and Planetary Science Letters*, **2014**, 401, 95-109	5.3	35
49	Effect of trench-outer rise bending-related faulting on seismic Poisson's ratio and mantle anisotropy: a case study offshore of Southern Central Chile. *Geophysical Journal International*, **2008**, 173, 142-156	2.6	32
48	The limits of seaward spreading and slope instability at the continental margin offshore Mt Etna, imaged by high-resolution 2D seismic data. *Tectonophysics*, **2016**, 667, 63-76	3.1	27
47	Fields of multi-kilometer scale sub-circular depressions in the Carnegie Ridge sedimentary blanket: Effect of underwater carbonate dissolution?. *Marine Geology*, **2005**, 216, 205-219	3.3	27
46	Geological fate of seafloor massive sulphides at the TAG hydrothermal field (Mid-Atlantic Ridge). *Ore Geology Reviews*, **2019**, 107, 903-925	3.2	25
45	Episodic methane concentrations at seep sites on the upper slope Opouawe Bank, southern Hikurangi Margin, New Zealand. *Marine Geology*, **2010**, 272, 71-78	3.3	25
44	Submarine gas seepage in a mixed contractional and shear deformation regime: Cases from the Hikurangi oblique-subduction margin. *Geochemistry, Geophysics, Geosystems*, **2014**, 15, 416-433	3.6	24
43	Sidescan sonar imagery of widespread fossil and active cold seeps along the central Chilean continental margin. *Geo-Marine Letters*, **2012**, 32, 489-499	1.9	24
42	Transtensional basins in the Western Sunda Strait. *Geophysical Research Letters*, **2000**, 27, 3545-3548	4.9	24
41	Interseismic strain build-up on the submarine North Anatolian Fault offshore Istanbul. *Nature Communications*, **2019**, 10, 3006	17.4	22
40	High-resolution, deep tow, multichannel seismic and sidescan sonar survey of the submarine mounds and associated BSR off Nicaragua pacific margin. *Marine Geology*, **2007**, 241, 33-43	3.3	22

39	Seismic velocities from the Yaquina forearc basin off Peru: evidence for free gas within the gas hydrate stability zone. *International Journal of Earth Sciences*, **2005**, 94, 420-432	2.2	20
38	Gas migration pathways and slope failures in the Danube Fan, Black Sea. *Marine and Petroleum Geology*, **2018**, 92, 1069-1084	4.7	19
37	Paleo-fluid expulsion and contouritic drift formation on the Chatham Rise, New Zealand. *Basin Research*, **2018**, 30, 5-19	3.2	19
36	Structure of the Mediterranean Ridge accretionary complex from seismic velocity information. *Marine Geology*, **2002**, 186, 43-58	3.3	19
35	Physical properties and core-log seismic integration from drilling at the Danube deep-sea fan, Black Sea. *Marine and Petroleum Geology*, **2020**, 114, 104192	4.7	19
34	Patterns of subsurface fluid-flow at cold seeps: The Hikurangi Margin, offshore New Zealand. *Marine and Petroleum Geology*, **2013**, 39, 59-73	4.7	18
33	Investigating a gas hydrate system in apparent disequilibrium in the Danube Fan, Black Sea. *Earth and Planetary Science Letters*, **2018**, 502, 1-11	5.3	18
32	Morphotectonic and morphometric analysis of the Nazca plate and the adjacent offshore Peruvian continental slope Implications for submarine landscape evolution. *Marine Geology*, **2008**, 254, 107-120	3.3	17
31	The use of rotational invariants for the interpretation of marine CSEM data with a case study from the North Alex mud volcano, West Nile Delta. *Geophysical Journal International*, **2015**, 201, 224-245	2.6	16
30	Potential impacts of gas hydrate exploitation on slope stability in the Danube deep-sea fan, Black Sea. *Marine and Petroleum Geology*, **2018**, 92, 1056-1068	4.7	15
29	Free gas distribution and basal shear zone development in a subaqueous landslide Insight from 3D seismic imaging of the Tuaheni Landslide Complex, New Zealand. *Earth and Planetary Science Letters*, **2018**, 502, 231-243	5.3	14
28	The influence of submarine currents associated with the Subtropical Front upon seafloor depression morphologies on the eastern passive margin of South Island, New Zealand. *New Zealand Journal of Geology, and Geophysics*, **2018**, 61, 112-125	1.6	13
27	Gas migration through Opouawe Bank at the Hikurangi margin offshore New Zealand. *Geo-Marine Letters*, **2016**, 36, 187-196	1.9	13
26	Late Eocene onset of the Proto-Antarctic Circumpolar Current. *Scientific Reports*, **2019**, 9, 10125	4.9	13
25	Joint interpretation of geophysical field experiments in the danube deep-sea fan, Black Sea. *Marine and Petroleum Geology*, **2020**, 121, 104551	4.7	12
24	Mass wasting at the base of the south central Chilean continental margin: the Reloca Slide. *Advances in Geosciences*,22, 155-167		12
23	CO2 Release From Pockmarks on the Chatham Rise-Bounty Trough at the Glacial Termination. *Paleoceanography and Paleoclimatology*, **2019**, 34, 1726-1743	3.3	10
22	Sidescan backscatter variations of cold seeps on the Hikurangi Margin (New Zealand): indications for different stages in seep development. *Geo-Marine Letters*, **2014**, 34, 169-184	1.9	10

21	New insights into geology and geochemistry of the Kerch seep area in the Black Sea. *Marine and Petroleum Geology*, **2020**, 113, 104162	4.7	10
20	Analysis of marine controlled source electromagnetic data for the assessment of gas hydrates in the Danube deep-sea fan, Black Sea. *Marine and Petroleum Geology*, **2020**, 122, 104650	4.7	10
19	Seismic evidence for failed rifting in the Ligurian Basin, Western Alpine domain. *Solid Earth*, **2020**, 11, 873-887	3.3	7
18	Giant depressions on the Chatham Rise offshore New Zealand Morphology, structure and possible relation to fluid expulsion and bottom currents. *Marine Geology*, **2018**, 399, 158-169	3.3	7
17	Elongate fluid flow structures: Stress control on gas migration at Opouawe Bank, New Zealand. *Marine and Petroleum Geology*, **2018**, 92, 913-931	4.7	7
16	Special topic: marine seismic. *First Break*, **2002**, 20, 764-786	0.5	7
15	Reloca Slide: an ~24 km3 submarine mass-wasting event in response to over-steepening and failure of the central Chilean continental slope. *Terra Nova*, **2016**, 28, 257-264	3	7
14	The Character and Formation of Elongated Depressions on the Upper Bulgarian Slope. *Journal of Ocean University of China*, **2018**, 17, 555-562	1	6
13	Detachment tectonics at Mid-Atlantic Ridge 26°N. *Scientific Reports*, **2019**, 9, 11830	4.9	5
12	Tectonic framework of the mud mounds, associated BSRs and submarine landslides, offshore Nicaragua Pacific margin. *Journal of the Geological Society*, **2008**, 165, 167-176	2.7	5
11	Evidence for Submarine Landslides Offshore Mt. Etna, Italy. *Advances in Natural and Technological Hazards Research*, **2014**, 307-316	1.8	5
10	Tsunamigenic potential of a newly discovered active fault zone in the outer Messina Strait, Southern Italy. *Geophysical Research Letters*, **2017**, 44, 2427-2435	4.9	4
9	In-situ borehole temperature measurements confirm dynamics of the gas hydrate stability zone at the upper Danube deep sea fan, Black Sea. *Earth and Planetary Science Letters*, **2021**, 563, 116869	5.3	4
8	Seismic investigations of the Ringkoebing-Fyn High on Langeland, Denmark. *Tectonophysics*, **1990**, 176, 25-41	3.1	3
7	Controls on Gas Emission Distribution on the Continental Slope of the Western Black Sea. *Frontiers in Earth Science*, **2021**, 8,	3.5	3
6	Upward-Doming Zones of Gas Hydrate and Free Gas at the Bases of Gas Chimneys, New Zealandʼs Hikurangi Margin. *Journal of Geophysical Research: Solid Earth*, **2021**, 126, e2020JB021489	3.6	3
5	Shallow seismic investigations of the accretionary complex offshore Central Chile. *Marine Geology*, **2021**, 434, 106437	3.3	2
4	Oligocene-Miocene extension led to mantle exhumation in the central Ligurian Basin, Western Alpine Domain **2019**,		2

3	Interplay between magmatic accretion, spreading asymmetry and detachment faulting at a segment end: Crustal structure south of the Ascension Fracture Zone. *Earth and Planetary Science Letters*, **2015**, 432, 84-94	5.3	1
2	Gas Hydrate Accumulations in the Black Sea **2022**, 451-461		1
1	The BGR Slide Off Costa Rica: Preconditioning Factors, Trigger, and Slide Dynamics **2012**, 289-299		1