

Bruno Meurers

List of Publications by Year in descending order

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42
papers

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516710

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52
docs citations

52
times ranked

654
citing authors

#	ARTICLE	IF	CITATIONS
1	Geophysics From Terrestrial Timeâ€Variable Gravity Measurements. <i>Reviews of Geophysics</i> , 2017, 55, 938-992.	23.0	157
2	Hydrogeological investigations at the Membach station, Belgium, and application to correct long periodic gravity variations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	73
3	Combination of temporal gravity variations resulting from superconducting gravimeter (SG) recordings, GRACE satellite observations and global hydrology models. <i>Journal of Geodesy</i> , 2006, 79, 573-585.	3.6	64
4	Correcting superconducting gravity time-series using rainfall modelling at the Vienna and Membach stations and application to Earth tide analysis. <i>Journal of Geodesy</i> , 2007, 81, 703-712.	3.6	55
5	Results of the Sixth International Comparison of Absolute Gravimeters, ICAG-2001. <i>Metrologia</i> , 2002, 39, 407-424.	1.2	48
6	Superconducting Gravimeter Calibration by CoLocated Gravity Observations: Results from GWR C025. <i>International Journal of Geophysics</i> , 2012, 2012, 1-12.	1.1	33
7	New gravity maps of the Eastern Alps and significance for the crustal structures. <i>Tectonophysics</i> , 2006, 414, 127-143.	2.2	28
8	Optimized strategy for the calibration of superconducting gravimeters at the one per mille level. <i>Journal of Geodesy</i> , 2016, 90, 91-99.	3.6	28
9	Global ellipsoid-referenced topographic, bathymetric and stripping corrections to gravity disturbance. <i>Studia Geophysica Et Geodaetica</i> , 2008, 52, 19-34.	0.5	26
10	APPARENT DENSITY MAPPING AND 3D GRAVITY INVERSION IN THE EASTERN ALPS1. <i>Geophysical Prospecting</i> , 1989, 37, 279-292.	1.9	25
11	Microgravimetric measurements at the 1994 International Comparison of Absolute Gravimeters. <i>Metrologia</i> , 1995, 32, 145-152.	1.2	25
12	Strikeâ€slip tectonics and Quaternary basin formation along the Vienna Basin fault system inferred from Bouguer gravity derivatives. <i>Tectonics</i> , 2012, 31, .	2.8	25
13	Modelling of global mass effects in hydrology, atmosphere and oceans on surface gravity. <i>Computers and Geosciences</i> , 2016, 93, 12-20.	4.2	25
14	Characterizing longâ€time scale hydrological effects on gravity for improved distinction of tectonic signals. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	21
15	Scintrex CG5 used for superconducting gravimeter calibration. <i>Geodesy and Geodynamics</i> , 2018, 9, 197-203.	2.2	20
16	A new physical foundation for anomalous gravity. <i>Studia Geophysica Et Geodaetica</i> , 2006, 50, 189-216.	0.5	17
17	The quest for a consistent signal in ground and GRACE gravity time-series. <i>Geophysical Journal International</i> , 2014, 197, 192-201.	2.4	16
18	On the isostatic state of the eastern Alps and the central Andes; A statistical comparison. <i>Special Paper of the Geological Society of America</i> , 1991, , 279-290.	0.5	15

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19	Temporal variation of tidal parameters in superconducting gravimeter time-series. <i>Geophysical Journal International</i> , 2016, 205, 284-300.	2.4	15
20	Clear evidence for the sign-reversal of the pressure admittance to gravity near 3mHz. <i>Journal of Geodynamics</i> , 2009, 48, 371-377.	1.6	13
21	The reduction of hydrology-induced gravity variations at sites with insufficient hydrological instrumentation. <i>Studia Geophysica Et Geodaetica</i> , 2015, 59, 424-437.	0.5	13
22	Relative Gravity Measurement Campaign during the 7th International Comparison of Absolute Gravimeters (2005). <i>Metrologia</i> , 2009, 46, 214-226.	1.2	12
23	The first pan-Alpine surface-gravity database, a modern compilation that crosses frontiers. <i>Earth System Science Data</i> , 2021, 13, 2165-2209.	9.9	12
24	Gravity disturbances in regions of negative heights: A reference quasi-ellipsoid approach. <i>Studia Geophysica Et Geodaetica</i> , 2008, 52, 35-52.	0.5	9
25	On the comparison of tidal gravity parameters with tidal models in central Europe. <i>Journal of Geodynamics</i> , 2014, 80, 12-19.	1.6	7
26	Investigation of temporal gravity variations in SG-records. <i>Journal of Geodynamics</i> , 2004, 38, 423-435.	1.6	6
27	Hydrological signals in tilt and gravity residuals at Conrad Observatory (Austria). <i>Hydrology and Earth System Sciences</i> , 2021, 25, 217-236.	4.9	6
28	Gravity as a tool to improve the hydrologic mass budget in karstic areas. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 6001-6021.	4.9	6
29	Potential field continuation between irregular surfaces – Remarks on the method by Xia et al.. <i>Geophysics</i> , 1998, 63, 104-108.	2.6	5
30	Geodynamics and Earth Tides Observations from Global to Micro Scale: Introduction. <i>Pure and Applied Geophysics</i> , 2018, 175, 1595-1597.	1.9	5
31	Gravity effect of glacial ablation in the Eastern Alps – observation and modeling. <i>Cryosphere</i> , 2013, 7, 491-498.	3.9	4
32	A new tidal analysis of superconducting gravity observations in Western and Central Europe. <i>Contributions To Geophysics and Geodesy</i> , 2014, 44, 1-24.	0.6	3
33	Feasibility study applied to mapping tidal effects in the Pannonian basin – An effort to check location dependencies at $1/4$ Gal level. <i>Geodesy and Geodynamics</i> , 2018, 9, 237-245.	2.2	3
34	The Physical Meaning of Bouguer Anomalies – General Aspects Revisited. , 2017, , 13-30.		2
35	Scale factor determination of spring type gravimeters in the amplitude range of tides by a moving mass device. <i>Metrologia</i> , 2020, 57, 015006.	1.2	2
36	Comparison of Superconducting Gravimeter and CHAMP Satellite Derived Temporal Gravity Variations. , 2005, , 31-36.		1

#	ARTICLE	IF	CITATIONS
37	On Ambiguities in Definitions and Applications of Bouguer Gravity Anomaly. International Association of Geodesy Symposia, 2010, , 19-24.	0.4	1
38	Reply to Comment on: "The quest for a consistent signal in ground and GRACE gravity time series", by Michel Van Camp, Olivier de Viron, Laurent MÃ©tivier, Bruno Meurers and Olivier Francis. Geophysical Journal International, 2014, 199, 1818-1822.	2.4	1
39	Editorial note for the Geodesy and Geodynamics journal special issue. Geodesy and Geodynamics, 2018, 9, 183-186.	2.2	1
40	Problems of Gravimeter Calibration in High Precision Gravimetry. International Association of Geodesy Symposia, 1995, , 19-26.	0.4	1
41	BerÃ¼cksichtigung instrumenteller Eigenschaften eines LCR-D-Gravimeters bei der Kalibrierung und Auswertung von Erdzeitenregistrierungen. Archives for Meteorology, Geophysics and Bioclimatology, Series A, 1981, 30, 313-325.	0.4	0
42	Harmonic Continuation and Gravimetric Inversion of Gravity in Areas of Negative Geodetic Heights. International Association of Geodesy Symposia, 2010, , 25-30.	0.4	0