

Olivier Francis

List of Publications by Year in descending order

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84
papers

3,810
citations

218677

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60
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times ranked

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#	ARTICLE	IF	CITATIONS
1	Calibration of the Latest Generation Superconducting Gravimeter iGrav-043 Using the Observatory Superconducting Gravimeter OSC-CT040 and the Comparisons of Their Characteristics at the Walferdange Underground Laboratory for Geodynamics, Luxembourg. Pure and Applied Geophysics, 2023, 180, 629-641.	1.9	4
2	Evaluation of global ocean tide models based on tidal gravity observations in China. Geodesy and Geodynamics, 2021, 12, 451-458.	2.2	5
3	SNR-Based GNSS-R for Coastal Sea-Level Altimetry. Geosciences (Switzerland), 2021, 11, 391.	2.2	3
4	Performance assessment of the relative gravimeter Scintrex CG-6. Journal of Geodesy, 2021, 95, 1.	3.6	5
5	Tidal analysis of GNSS reflectometry applied for coastal sea level sensing in Antarctica and Greenland. Remote Sensing of Environment, 2020, 248, 111959.	11.0	39
6	Can GNSS-R Detect Abrupt Water Level Changes?. Remote Sensing, 2020, 12, 3614.	4.0	9
7	Gravity Monitoring of Underground Flash Flood Events to Study Their Impact on Groundwater Recharge and the Distribution of Karst Voids. Water Resources Research, 2020, 56, e2019WR026673.	4.2	14
8	The results of CCM.G-K2.2017 key comparison. Metrologia, 2020, 57, 07002.	1.2	24
9	Temporal Changes of Seismic Velocity Caused by Volcanic Activity at Mt. Etna Revealed by the Autocorrelation of Ambient Seismic Noise. Frontiers in Earth Science, 2019, 6, .	1.8	16
10	Long-Term Stability of Tilt-Controlled gPhoneX Gravimeters. Journal of Geophysical Research: Solid Earth, 2019, 124, 12264-12276.	3.4	8
11	An Optimized Short-Arc Approach: Methodology and Application to Develop Refined Time Series of Tongji-Grace2018 GRACE Monthly Solutions. Journal of Geophysical Research: Solid Earth, 2019, 124, 6010-6038.	3.4	27
12	Tongji-Grace02s and Tongji-Grace02k: High-Precision Static GRACE-Only Global Earth's Gravity Field Models Derived by Refined Data Processing Strategies. Journal of Geophysical Research: Solid Earth, 2018, 123, 6111-6137.	3.4	27
13	Geophysical Investigation of the Pb-Zn Deposit of Lontzen-Poppelsberg, Belgium. Minerals (Basel), 2018, 8, 118.	1.0	18
14	Using GPS and absolute gravity observations to separate the effects of present-day and Pleistocene ice-mass changes in South East Greenland. Earth and Planetary Science Letters, 2017, 459, 127-135.	4.4	20
15	Geophysics From Terrestrial Time-Varying Gravity Measurements. Reviews of Geophysics, 2017, 55, 938-992.	23.0	157
16	Regional comparison of absolute gravimeters, EURAMET.M.G-K2 key comparison. Metrologia, 2017, 54, 07012.	1.2	12
17	Regional comparison of absolute gravimeters SIM.M.G-K1 key comparison. Metrologia, 2017, 54, 07019-07019.	1.2	5
18	Single-station monitoring of volcanoes using seismic ambient noise. Geophysical Research Letters, 2016, 43, 8511-8518.	4.0	41

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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	CCM.G-K2 key comparison. <i>Metrologia</i> , 2015, 52, 07009-07009.	1.2	36
21	Measurement of the speed-of-light perturbation of free-fall absolute gravimeters. <i>Metrologia</i> , 2014, 51, L9-L13.	1.2	12
22	Precision measurement of the relativistic Doppler shift of an accelerated system. , 2014, , .		0
23	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 Métivier, Bruno Meurers and Olivier Francis. <i>Geophysical Journal International</i> , 2014, 199, 1818-1822.	2.4	1
24	High tilt susceptibility of the Scintrex CG-5 relative gravimeters. <i>Journal of Geodesy</i> , 2014, 88, 617-622.	3.6	36
25	Stability comparison of two absolute gravimeters: optical versus atomic interferometers. <i>Metrologia</i> , 2014, 51, L15-L17.	1.2	143
26	A proposed free-fall experiment to determine the Gravitational Constant. , 2014, , .		1
27	Measuring the Newtonian constant of gravitation with a differential free-fall gradiometer: A feasibility study. <i>Review of Scientific Instruments</i> , 2014, 85, 044501.	1.3	7
28	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
29	Future and Development of the European Combined Geodetic Network ECGN. <i>International Association of Geodesy Symposia</i> , 2014, , 121-127.	0.4	3
30	Accurate Gravimetry at the BIPM Watt Balance Site. <i>International Association of Geodesy Symposia</i> , 2014, , 371-376.	0.4	3
31	The European Comparison of Absolute Gravimeters 2011 (ECAG-2011) in Walferdange, Luxembourg: results and recommendations. <i>Metrologia</i> , 2013, 50, 257-268.	1.2	55
32	On the gravimetric contribution to watt balance experiments. <i>Metrologia</i> , 2013, 50, 452-471.	1.2	27
33	Constraints on the upper crustal magma reservoir beneath Yellowstone Caldera inferred from lake-level induced strain observations. <i>Geophysical Research Letters</i> , 2013, 40, 501-506.	4.0	24
34	Bedrock displacements in Greenland manifest ice mass variations, climate cycles and climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11944-11948.	7.1	116
35	Relative Gravity Measurement Campaign during the 8th International Comparison of Absolute Gravimeters (2009). <i>Metrologia</i> , 2012, 49, 95-107.	1.2	22
36	Final report of the regional key comparison EURAMET.M.G-K1: European Comparison of Absolute Gravimeters ECAG-2011. <i>Metrologia</i> , 2012, 49, 07014-07014.	1.2	7

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37	The 8th International Comparison of Absolute Gravimeters 2009: the first Key Comparison (CCM.G-K1) in the field of absolute gravimetry. <i>Metrologia</i> , 2012, 49, 666-684.	1.2	84
38	Updating the Precise Gravity Network at the BIPM. <i>International Association of Geodesy Symposia</i> , 2012, , 263-271.	0.4	1
39	Results of the first North American comparison of absolute gravimeters, NACAG-2010. <i>Journal of Geodesy</i> , 2012, 86, 591-596.	3.6	16
40	Second-order Doppler-shift corrections in free-fall absolute gravimeters. <i>Metrologia</i> , 2011, 48, 187-195.	1.2	16
41	Reply to "Comment on second-order Doppler-shift corrections in free-fall absolute gravimeters". <i>Metrologia</i> , 2011, 48, 442-445.	1.2	8
42	Monitoring earthquakes with gravity meters. <i>Geodesy and Geodynamics</i> , 2011, 2, 71-75.	2.2	14
43	Revisiting absolute gravimeter intercomparisons. <i>Metrologia</i> , 2011, 48, 290-298.	1.2	5
44	Final report on the Seventh International Comparison of Absolute Gravimeters (ICAG 2005)*. <i>Metrologia</i> , 2011, 48, 246-260.	1.2	31
45	Final report on absolute gravimeter intercomparison (EURAMET Project no. 1093). <i>Metrologia</i> , 2010, 47, 07008-07008.	1.2	2
46	On the influence of the rotation of a corner cube reflector in absolute gravimetry. <i>Metrologia</i> , 2010, 47, 567-574.	1.2	22
47	Hydrological effects on gravity and correlations between gravitational variations and level of the Alzette River at the station of Walferdange, Luxembourg. <i>Journal of Geodynamics</i> , 2010, 49, 31-38.	1.6	25
48	Results of the European Comparison of Absolute Gravimeters in Walferdange (Luxembourg) of November 2007. <i>International Association of Geodesy Symposia</i> , 2010, , 31-35.	0.4	14
49	Results of the Seventh International Comparison of Absolute Gravimeters ICAG-2005 at the Bureau International des Poids et Mesures, Sèvres. <i>International Association of Geodesy Symposia</i> , 2010, , 47-53.	0.4	5
50	Relative Gravity Measurement Campaign during the 7th International Comparison of Absolute Gravimeters (2005). <i>Metrologia</i> , 2009, 46, 214-226.	1.2	12
51	Geodetic measurements of postglacial adjustments in Greenland. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	37
52	Elastic uplift in southeast Greenland due to rapid ice mass loss. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	55
53	Is the instrumental drift of superconducting gravimeters a linear or exponential function of time?. <i>Journal of Geodesy</i> , 2007, 81, 337-344.	3.6	48
54	Set standard deviation, repeatability and offset of absolute gravimeter A10-008. <i>Metrologia</i> , 2006, 43, 414-418.	1.2	23

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55	Gravity tide and seasonal gravity variation at Ny-Ålesund, Svalbard in Arctic. Journal of Geodynamics, 2006, 41, 234-241.	1.6	26
56	A geophysical interpretation of the secular displacement and gravity rates observed at Ny-Ålesund, Svalbard in the Arctic-effects of post-glacial rebound and present-day ice melting. Geophysical Journal International, 2006, 165, 729-743.	2.4	49
57	Modelling the global ocean tides: modern insights from FES2004. Ocean Dynamics, 2006, 56, 394-415.	2.2	1,376
58	Results of the International Comparison of Absolute Gravimeters in Walferdange (Luxembourg) of November 2003. International Association of Geodesy Symposia, 2005, , 272-275.	0.4	13
59	Unified European Gravity Reference Network 2002 (UEGN02) â€” Status 2004. International Association of Geodesy Symposia, 2005, , 286-291.	0.4	1
60	Development of a European Combined Geodetic Network (ECGN). Journal of Geodynamics, 2005, 40, 450-460.	1.6	8
61	Uncertainty of absolute gravity measurements. Journal of Geophysical Research, 2005, 110, .	3.3	103
62	Indication of the uplift of the Ardenne in long-term gravity variations in Membach (Belgium). Geophysical Journal International, 2004, 158, 346-352.	2.4	33
63	Experiment to evaluate crustal motions across the Ardenne and the Roer Graben (north-western) Tj ETQq1 1 0.784314 rgBT /Overlock	1.2	6
64	Evaluation of the precision of using absolute gravimeters to calibrate superconducting gravimeters. Metrologia, 2002, 39, 485-488.	1.2	26
65	Results of the Sixth International Comparison of Absolute Gravimeters, ICAG-2001. Metrologia, 2002, 39, 407-424.	1.2	48
66	Comment on â€œNature of the recent vertical ground movements inferred from high-precision leveling data in an intraplate setting: NE Ardenne, Belgiumâ€”by A. Demoulin and A. Collignon. Journal of Geophysical Research, 2002, 107, ETG 6-1-ETG 6-6.	3.3	7
67	Geodetic measurements in Greenland and their implications. Journal of Geophysical Research, 2001, 106, 16567-16581.	3.3	45
68	GPS measurements of vertical crustal motion in Greenland. Journal of Geophysical Research, 2001, 106, 33755-33759.	3.3	20
69	Results from the fifth international comparison of absolute gravimeters, ICAG'97. Metrologia, 2001, 38, 71-78.	1.2	31
70	Accurate transfer function determination for superconducting gravimeters. Geophysical Research Letters, 2000, 27, 37-40.	4.0	47
71	Using GPS and gravity to infer ice mass changes in Greenland. Eos, 2000, 81, 421.	0.1	14
72	Two years of continuous measurements of tidal and nontidal variations of gravity in Boulder, Colorado. Geophysical Research Letters, 1998, 25, 393-396.	4.0	34

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73	Calibration of a superconducting gravimeter by comparison with an absolute gravimeter FG5 in Boulder. <i>Geophysical Research Letters</i> , 1998, 25, 1075-1078.	4.0	49
74	Accuracy assessment of recent ocean tide models. <i>Journal of Geophysical Research</i> , 1997, 102, 25173-25194.	3.3	255
75	Calibration of the C021 Superconducting Gravimeter in Membach (Belgium) Using 47 Days of Absolute Gravity Measurements. <i>International Association of Geodesy Symposia</i> , 1997, , 212-219.	0.4	20
76	One Year of Registration with the C021 Cryogenic Gravimeter at Station Membach (Belgium). <i>International Association of Geodesy Symposia</i> , 1997, , 336-342.	0.4	6
77	The response of the Earth to tidal body forces described by second- and third-degree spherical harmonics as derived from a 12 year series of measurements with the superconducting gravimeter CWR/T3 in Brussels. <i>Physics of the Earth and Planetary Interiors</i> , 1996, 93, 223-238.	1.9	20
78	Tidal loading in south western Europe: A test area. <i>Geophysical Research Letters</i> , 1996, 23, 2251-2254.	4.0	15
79	Comparison of recent ocean tide models using ground-based tidal gravity measurements. <i>Marine Geodesy</i> , 1996, 19, 291-330.	2.0	33
80	Estimate of the radial orbit error by complex demodulation. <i>Journal of Geophysical Research</i> , 1993, 98, 16083-16094.	3.3	11
81	M2 World Ocean tide from tide gauge measurements. <i>Geophysical Research Letters</i> , 1991, 18, 1167-1170.	4.0	1
82	Some results of heterogeneous data inversions for oceanic tides. <i>Journal of Geophysical Research</i> , 1991, 96, 20267-20288.	3.3	15
83	Global charts of ocean tide loading effects. <i>Journal of Geophysical Research</i> , 1990, 95, 11411-11424.	3.3	119
84	About Time Variations of Gravity. <i>Computational Seismology and Geodynamics</i> , 0, , 198-207.	0.0	0