

Olivier Francis

List of Publications by Year in descending order

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84
papers

3,810
citations

218677

26
h-index

128289

60
g-index

87
all docs

87
docs citations

87
times ranked

3003
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling the global ocean tides: modern insights from FES2004. <i>Ocean Dynamics</i> , 2006, 56, 394-415.	2.2	1,376
2	Accuracy assessment of recent ocean tide models. <i>Journal of Geophysical Research</i> , 1997, 102, 25173-25194.	3.3	255
3	Geophysics From Terrestrial Timeâ€Variable Gravity Measurements. <i>Reviews of Geophysics</i> , 2017, 55, 938-992.	23.0	157
4	Stability comparison of two absolute gravimeters: optical versus atomic interferometers. <i>Metrologia</i> , 2014, 51, L15-L17.	1.2	143
5	Global charts of ocean tide loading effects. <i>Journal of Geophysical Research</i> , 1990, 95, 11411-11424.	3.3	119
6	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
7	Uncertainty of absolute gravity measurements. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	103
8	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
9	Elastic uplift in southeast Greenland due to rapid ice mass loss. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	55
10	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
11	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
12	A geophysical interpretation of the secular displacement and gravity rates observed at Ny-Å...lesund, Svalbard in the Arctic-effects of post-glacial rebound and present-day ice melting. <i>Geophysical Journal International</i> , 2006, 165, 729-743.	2.4	49
13	Results of the Sixth International Comparison of Absolute Gravimeters, ICAG-2001. <i>Metrologia</i> , 2002, 39, 407-424.	1.2	48
14	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
15	Accurate transfer function determination for superconducting gravimeters. <i>Geophysical Research Letters</i> , 2000, 27, 37-40.	4.0	47
16	Geodetic measurements in Greenland and their implications. <i>Journal of Geophysical Research</i> , 2001, 106, 16567-16581.	3.3	45
17	Singleâ€station monitoring of volcanoes using seismic ambient noise. <i>Geophysical Research Letters</i> , 2016, 43, 8511-8518.	4.0	41
18	Tidal analysis of GNSS reflectometry applied for coastal sea level sensing in Antarctica and Greenland. <i>Remote Sensing of Environment</i> , 2020, 248, 111959.	11.0	39

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19	Geodetic measurements of postglacial adjustments in Greenland. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	37
20	High tilt susceptibility of the Scintrex CG-5 relative gravimeters. <i>Journal of Geodesy</i> , 2014, 88, 617-622.	3.6	36
21	CCM.G-K2 key comparison. <i>Metrologia</i> , 2015, 52, 07009-07009.	1.2	36
22	Two years of continuous measurements of tidal and nontidal variations of gravity in Boulder, Colorado. <i>Geophysical Research Letters</i> , 1998, 25, 393-396.	4.0	34
23	Comparison of recent ocean tide models using ground-based tidal gravity measurements. <i>Marine Geodesy</i> , 1996, 19, 291-330.	2.0	33
24	Indication of the uplift of the Ardenne in long-term gravity variations in Membach (Belgium). <i>Geophysical Journal International</i> , 2004, 158, 346-352.	2.4	33
25	Results from the fifth international comparison of absolute gravimeters, ICAG'97. <i>Metrologia</i> , 2001, 38, 71-78.	1.2	31
26	Final report on the Seventh International Comparison of Absolute Gravimeters (ICAG 2005)*. <i>Metrologia</i> , 2011, 48, 246-260.	1.2	31
27	On the gravimetric contribution to watt balance experiments. <i>Metrologia</i> , 2013, 50, 452-471.	1.2	27
28	Tongji-Grace02s and Tongji-Grace02k: High-Precision Static GRACE-Only Global Earth's Gravity Field Models Derived by Refined Data Processing Strategies. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 6111-6137.	3.4	27
29	An Optimized Short-Arc Approach: Methodology and Application to Develop Refined Time Series of Tongji-Grace2018 GRACE Monthly Solutions. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 6010-6038.	3.4	27
30	Evaluation of the precision of using absolute gravimeters to calibrate superconducting gravimeters. <i>Metrologia</i> , 2002, 39, 485-488.	1.2	26
31	Gravity tide and seasonal gravity variation at Ny-Ålesund, Svalbard in Arctic. <i>Journal of Geodynamics</i> , 2006, 41, 234-241.	1.6	26
32	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
33	Constraints on the upper crustal magma reservoir beneath Yellowstone Caldera inferred from lake-seiche induced strain observations. <i>Geophysical Research Letters</i> , 2013, 40, 501-506.	4.0	24
34	The results of CCM.G-K2.2017 key comparison. <i>Metrologia</i> , 2020, 57, 07002.	1.2	24
35	Set standard deviation, repeatability and offset of absolute gravimeter A10-008. <i>Metrologia</i> , 2006, 43, 414-418.	1.2	23
36	On the influence of the rotation of a corner cube reflector in absolute gravimetry. <i>Metrologia</i> , 2010, 47, 567-574.	1.2	22

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37	Relative Gravity Measurement Campaign during the 8th International Comparison of Absolute Gravimeters (2009). <i>Metrologia</i> , 2012, 49, 95-107.	1.2	22
38	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 GWR/T3 in Brussels. <i>Physics of the Earth and Planetary Interiors</i> , 1996, 93, 223-238.	1.9	20
39	GPS measurements of vertical crustal motion in Greenland. <i>Journal of Geophysical Research</i> , 2001, 106, 33755-33759.	3.3	20
40	Using GPS and absolute gravity observations to separate the effects of present-day and Pleistocene ice-mass changes in South East Greenland. <i>Earth and Planetary Science Letters</i> , 2017, 459, 127-135.	4.4	20
41	Calibration of the CO21 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
42	Geophysical Investigation of the Pb-Zn Deposit of Lontzen-Poppelsberg, Belgium. <i>Minerals (Basel)</i> , 2019, 9, 18.	2.0	18
43	Second-order Doppler-shift corrections in free-fall absolute gravimeters. <i>Metrologia</i> , 2011, 48, 187-195.	1.2	16
44	Results of the first North American comparison of absolute gravimeters, NACAG-2010. <i>Journal of Geodesy</i> , 2012, 86, 591-596.	3.6	16
45	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
46	Temporal Changes of Seismic Velocity Caused by Volcanic Activity at Mt. Etna Revealed by the Autocorrelation of Ambient Seismic Noise. <i>Frontiers in Earth Science</i> , 2019, 6, .	1.8	16
47	Some results of heterogeneous data inversions for oceanic tides. <i>Journal of Geophysical Research</i> , 1991, 96, 20267-20288.	3.3	15
48	Tidal loading in south western Europe: A test area. <i>Geophysical Research Letters</i> , 1996, 23, 2251-2254.	4.0	15
49	Temporal variation of tidal parameters in superconducting gravimeter time-series. <i>Geophysical Journal International</i> , 2016, 205, 284-300.	2.4	15
50	Using GPS and gravity to infer ice mass changes in Greenland. <i>Eos</i> , 2000, 81, 421.	0.1	14
51	Monitoring earthquakes with gravity meters. <i>Geodesy and Geodynamics</i> , 2011, 2, 71-75.	2.2	14
52	Gravity Monitoring of Underground Flash Flood Events to Study Their Impact on Groundwater Recharge and the Distribution of Karst Voids. <i>Water Resources Research</i> , 2020, 56, e2019WR026673.	4.2	14
53	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
54	Results of the International Comparison of Absolute Gravimeters in Walferdange (Luxembourg) of November 2003. <i>International Association of Geodesy Symposia</i> , 2005, , 272-275.	0.4	13

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55	Relative Gravity Measurement Campaign during the 7th International Comparison of Absolute Gravimeters (2005). <i>Metrologia</i> , 2009, 46, 214-226.	1.2	12
56	Measurement of the speed-of-light perturbation of free-fall absolute gravimeters. <i>Metrologia</i> , 2014, 51, L9-L13.	1.2	12
57	Regional comparison of absolute gravimeters, EURAMET.M.G-K2 key comparison. <i>Metrologia</i> , 2017, 54, 07012.	1.2	12
58	Estimate of the radial orbit error by complex demodulation. <i>Journal of Geophysical Research</i> , 1993, 98, 16083-16094.	3.3	11
59	Can GNSS-R Detect Abrupt Water Level Changes?. <i>Remote Sensing</i> , 2020, 12, 3614.	4.0	9
60	Development of a European Combined Geodetic Network (ECGN). <i>Journal of Geodynamics</i> , 2005, 40, 450-460.	1.6	8
61	Reply to "Comment on second-order Doppler-shift corrections in free-fall absolute gravimeters". <i>Metrologia</i> , 2011, 48, 442-445.	1.2	8
62	Long-Term Stability of Tilt-Controlled gPhoneX Gravimeters. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12264-12276.	3.4	8
63	Comment on "Nature of the recent vertical ground movements inferred from high-precision leveling data in an intraplate setting: NE Ardenne, Belgium" by A. Demoulin and A. Collignon. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 6-1-ETG 6-6.	3.3	7
64	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
65	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
66	Experiment to evaluate crustal motions across the Ardenne and the Roer Graben (north-western) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	1.2	6
67	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
68	Revisiting absolute gravimeter intercomparisons. <i>Metrologia</i> , 2011, 48, 290-298.	1.2	5
69	Evaluation of global ocean tide models based on tidal gravity observations in China. <i>Geodesy and Geodynamics</i> , 2021, 12, 451-458.	2.2	5
70	Results of the Seventh International Comparison of Absolute Gravimeters ICAG-2005 At the Bureau International des Poids et Mesures, SÃvres. <i>International Association of Geodesy Symposia</i> , 2010, , 47-53.	0.4	5
71	Regional comparison of absolute gravimeters SIM.M.G-K1 key comparison. <i>Metrologia</i> , 2017, 54, 07019-07019.	1.2	5
72	Performance assessment of the relative gravimeter Scintrex CG-6. <i>Journal of Geodesy</i> , 2021, 95, 1.	3.6	5

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73	Calibration of the Latest Generation Superconducting Gravimeter iGrav-043 Using the Observatory Superconducting Gravimeter OSG-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
74	SNR-Based GNSS-R for Coastal Sea-Level Altimetry. Geosciences (Switzerland), 2021, 11, 391.	2.2	3
75	Future and Development of the European Combined Geodetic Network ECGN. International Association of Geodesy Symposia, 2014, , 121-127.	0.4	3
76	Accurate Gravimetry at the BIPM Watt Balance Site. International Association of Geodesy Symposia, 2014, , 371-376.	0.4	3
77	Final report on absolute gravimeter intercomparison (EURAMET Project no. 1093). Metrologia, 2010, 47, 07008-07008.	1.2	2
78	M2 World Ocean tide from tide gauge measurements. Geophysical Research Letters, 1991, 18, 1167-1170.	4.0	1
79	Unified European Gravity Reference Network 2002 (UEGN02) " Status 2004. International Association of Geodesy Symposia, 2005, , 286-291.	0.4	1
80	Updating the Precise Gravity Network at the BIPM. International Association of Geodesy Symposia, 2012, , 263-271.	0.4	1
81	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
82	A proposed free-fall experiment to determine the Gravitational Constant. , 2014, , .		1
83	About Time Variations of Gravity. Computational Seismology and Geodynamics, 0, , 198-207.	0.0	0
84	Precision measurement of the relativistic Doppler shift of an accelerated system. , 2014, , .		0