Isabelle Panet

List of Publications by Year
in descending order

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36 papers	1,394 citations	394390 19 h-index	361001 35 g-index
36 all docs	36 docs citations	36 times ranked	1452 citing authors

#	Article	IF	Citations
1	Applications and Challenges of GRACE and GRACE Follow-On Satellite Gravimetry. Surveys in Geophysics, 2022, 43, 305-345.	4.6	65
2	Deep mass redistribution prior to the 2010 Mw 8.8 Maule (Chile) Earthquake revealed by GRACE satellite gravity. Earth and Planetary Science Letters, 2022, 584, 117465.	4.4	13
3	Space test of the equivalence principle: first results of the MICROSCOPE mission. Classical and Quantum Gravity, 2019, 36, 225006.	4.0	56
4	Mass variation observing system by high low inter-satellite links (MOBILE) â€“ a new concept for sustained observation of mass transport from space. Journal of Geodetic Science, 2019, 9, 48-58.	1.0	12
5	Migrating pattern of deformation prior to the Tohoku-Oki earthquake revealed by GRACE data. Nature Geoscience, 2018, 11, 367-373.	12.9	48
6	An Analysis of Gravitational Gradients in Rotated Frames and Their Relation to Oriented Mass Sources. Journal of Geophysical Research: Solid Earth, 2018, 123, 11,062.	3.4	3
7	Multi-scale modeling of Earth's gravity field in space and time. Journal of Geodynamics, 2017, 106, 46-65.	1.6	1
8	Determination of a high spatial resolution geopotential model using atomic clock comparisons. Journal of Geodesy, 2017, 91, 597-611.	3.6	38
9	MICROSCOPE Mission: First Results of a Space Test of the Equivalence Principle. Physical Review Letters, 2017, 119, 231101.	7.8	276
10	Fast computation of general forward gravitation problems. Journal of Geodesy, 2016, 90, 655-675.	3.6	16
11	Evidence for slab material under Greenland and links to Cretaceous High Arctic magmatism. Geophysical Research Letters, 2016, 43, 3717-3726.	4.0	15
12	Joint analysis of GOCE gravity gradients data of gravitational potential and of gravity with seismological and geodynamic observations to infer mantle properties. Geophysical Journal International, 2016, 205, 257-283.	2.4	11
13	Gravimetric and magnetic anomalies produced by dissolutionâ€crystallization at the coreâ€mantle boundary. Journal of Geophysical Research: Solid Earth, 2015, 120, 5983-6000.	3.4	10
14	Impact of the North Atlantic Oscillation on Southern Europe Water Distribution: Insights from Geodetic Data. Earth Interactions, 2015, 19, 1-16.	1.5	3
15	Error analysis of a new planar electrostatic gravity gradiometer for airborne surveys. Journal of Geodesy, 2015, 89, 1217-1231.	3.6	9
16	Science and User Needs for Observing Global Mass Transport to Understand Global Change and to Benefit Society. Surveys in Geophysics, 2015, 36, 743-772.	4.6	79
17	Ultra-sensitive electrostatic planar acceleration gradiometer for airborne geophysical surveys. Measurement Science and Technology, 2014, 25, 105902.	2.6	9
18	Mapping the mass distribution of Earthâ€™s mantle using satellite-derived gravity gradients. Nature Geoscience, 2014, 7, 131-135.	12.9	54

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19	Earth System Mass Transport Mission (e.motion): A Concept for Future Earth Gravity Field Measurements from Space. Surveys in Geophysics, 2013, 34, 141-163.	4.6	42
20	Numerical modelling of post-seismic rupture propagation after the Sumatra 26.12.2004 earthquake constrained by GRACE gravity data. Geophysical Journal International, 2013, 194, 640-650.	2.4	18
21	Assessing the precision in loading estimates by geodetic techniques in Southern Europe. Geophysical Journal International, 2013, 194, 1441-1454.	2.4	16
22	A new planar electrostatic gravity gradiometer for airborne surveys. , 2013, , .		3
23	Recent changes of the Earthâ€™s core derived from satellite observations of magnetic and gravity fields. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19129-19133.	7.1	33
24	Hydrological deformation induced by the West African Monsoon: Comparison of GPS, GRACE and loading models. Journal of Geophysical Research, 2012, 117, .	3.3	71
25	New constraints on the origin of the Hawaiian swell from wavelet analysis of the geoid to topography ratio. Earth and Planetary Science Letters, 2012, 359-360, 40-54.	4.4	20
26	Wavelet-based directional analysis of the gravity field: evidence for large-scale undulations. Geophysical Journal International, 2012, 189, 1430-1456.	2.4	10
27	Pacific geoid anomalies revisited in light of thermochemical oscillating domes in the lower mantle. Earth and Planetary Science Letters, 2011, 306, 123-135.	4.4	24
28	Wavelet modelling of the gravity field by domain decomposition methods: an example over Japan. Geophysical Journal International, 2011, 184, 203-219.	2.4	26
29	Upper mantle rheology from GRACE and GPS postseismic deformation after the 2004 Sumatraâ€Andaman earthquake. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	72
30	Local multi-polar expansions in potential field modeling. Earth, Planets and Space, 2009, 61, 1127-1141.	2.5	3
31	Retrieving earthquake signature in grace gravity solutions. Geophysical Journal International, 2008, 174, 14-20.	2.4	40
32	Coseismic and post-seismic signatures of the Sumatra 2004 December and 2005 March earthquakes in GRACE satellite gravity. Geophysical Journal International, 2007, 171, 177-190.	2.4	103
33	New insights on intraplate volcanism in French Polynesia from wavelet analysis of GRACE, CHAMP, and sea surface data. Journal of Geophysical Research, 2006, 111, .	3.3	32
34	Extracting low frequency climate signal from GRACE data. EEarth, 2006, 1, 9-14.	0.8	10
35	Wavelet frames: an alternative to spherical harmonic representation of potential fields. Geophysical Journal International, 2005, 163, 875-899.	2.4	119
36	Can tectonic processes be recovered from new gravity satellite data?. Earth and Planetary Science Letters, 2004, 228, 281-297.	4.4	34