

Michal Å prlÃ;k

List of Publications by Year in descending order

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39
papers

509
citations

623734

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752698

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41
all docs

41
docs citations

41
times ranked

257
citing authors

#	ARTICLE	IF	CITATIONS
1	The enigmatic Chad lineament revisited with global gravity and gravity-gradient fields. Geological Society Special Publication, 2011, 357, 329-341.	1.3	46
2	Iterative Spherical Downward Continuation Applied to Magnetic and Gravitational Data from Satellite. Surveys in Geophysics, 2014, 35, 941-958.	4.6	34
3	Improving regional groundwater storage estimates from GRACE and global hydrological models over Tasmania, Australia. Hydrogeology Journal, 2020, 28, 1809-1825.	2.1	28
4	Spherical gravitational curvature boundary-value problem. Journal of Geodesy, 2016, 90, 727-739.	3.6	24
5	Quantifying water storage change and land subsidence induced by reservoir impoundment using GRACE, Landsat, and GPS data. Remote Sensing of Environment, 2019, 233, 111385.	11.0	24
6	Validation of GOCE global gravity field models using terrestrial gravity data in Norway. Journal of Geodetic Science, 2012, 2, 134-143.	1.0	23
7	Contribution of mass density heterogeneities to the quasigeoid-to-geoid separation. Journal of Geodesy, 2016, 90, 65-80.	3.6	23
8	Integral formulas for computing a third-order gravitational tensor from volumetric mass density, disturbing gravitational potential, gravity anomaly and gravity disturbance. Journal of Geodesy, 2015, 89, 141-157.	3.6	20
9	Spherical Harmonic Analysis of Gravitational Curvatures and Its Implications for Future Satellite Missions. Surveys in Geophysics, 2016, 37, 681-700.	4.6	18
10	Integral formulas for transformation of potential field parameters in Geosciences. Earth-Science Reviews, 2017, 164, 208-231.	9.1	17
11	Forward modelling of global gravity fields with 3D density structures and an application to the high-resolution (~2 km) gravity fields of the Moon. Journal of Geodesy, 2018, 92, 847-862.	3.6	17
12	Determination of ellipsoidal surface mass change from GRACE time-variable gravity data. Geophysical Journal International, 2019, 219, 248-259.	2.4	16
13	Spherical integral formulas for upward/downward continuation of gravitational gradients onto gravitational gradients. Journal of Geodesy, 2014, 88, 179-197.	3.6	15
14	Non-singular expressions for the spherical harmonic synthesis of gravitational curvatures in a local north-oriented reference frame. Computers and Geosciences, 2016, 88, 152-162.	4.2	14
15	Alternative validation method of satellite gradiometric data by integral transform of satellite altimetry data. Journal of Geodesy, 2015, 89, 757-773.	3.6	13
16	Spherical integral transforms of second-order gravitational tensor components onto third-order gravitational tensor components. Journal of Geodesy, 2017, 91, 167-194.	3.6	13
17	A graphical user interface application for evaluation of the gravitational tensor components generated by a level ellipsoid of revolution. Computers and Geosciences, 2012, 46, 77-83.	4.2	12
18	Integral transformations of deflections of the vertical onto satellite-to-satellite tracking and gradiometric data. Journal of Geodesy, 2014, 88, 643-657.	3.6	12

#	ARTICLE	IF	CITATIONS
19	Regional recovery of the disturbing gravitational potential by inverting satellite gravitational gradients. <i>Geophysical Journal International</i> , 2016, 205, 89-98.	2.4	12
20	Possibilities of inversion of satellite third-order gravitational tensor onto gravity anomalies: a case study for central Europe. <i>Geophysical Journal International</i> , 2017, 209, 799-812.	2.4	12
21	Higher-order gravitational potential gradients for geoscientific applications. <i>Earth-Science Reviews</i> , 2019, 198, 102937.	9.1	12
22	Spheroidal forward modelling of the gravitational fields of 1 Ceres and the Moon. <i>Icarus</i> , 2020, 335, 113412.	2.5	11
23	Integral transformations of gradiometric data onto a GRACE type of observable. <i>Journal of Geodesy</i> , 2014, 88, 377-390.	3.6	10
24	Spectral combination of spherical gravitational curvature boundary-value problems. <i>Geophysical Journal International</i> , 2018, 214, 773-791.	2.4	10
25	The Assessment of Hydrologic- and Flood-Induced Land Deformation in Data-Sparse Regions Using GRACE/GRACE-FO Data Assimilation. <i>Remote Sensing</i> , 2021, 13, 235.	4.0	10
26	On the use of spherical harmonic series inside the minimum Brillouin sphere: Theoretical review and evaluation by GRAIL and LOLA satellite data. <i>Earth-Science Reviews</i> , 2021, 222, 103739.	9.1	9
27	On the application of the coupled finite-infinite element method to geodetic boundary-value problem. <i>Studia Geophysica Et Geodaetica</i> , 2011, 55, 479-487.	0.5	7
28	Regional gravity field modelling from GOCE observables. <i>Advances in Space Research</i> , 2017, 59, 114-127.	2.6	6
29	Integral inversion of GRAIL inter-satellite gravitational accelerations for regional recovery of the lunar gravitational field. <i>Advances in Space Research</i> , 2020, 65, 630-649.	2.6	6
30	Downward continuation of gravitational field quantities to an irregular surface by spectral weighting. <i>Journal of Geodesy</i> , 2020, 94, 1.	3.6	6
31	Crustal density and global gravitational field estimation of the Moon from GRAIL and LOLA satellite data. <i>Planetary and Space Science</i> , 2020, 192, 105032.	1.7	5
32	Generalized geoidal estimators for deterministic modifications of spherical Stokes' function. <i>Contributions To Geophysics and Geodesy</i> , 2010, 40, 45-64.	0.6	4
33	On the integral inversion of satellite-to-satellite velocity differences for local gravity field recovery: a theoretical study. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2016, 124, 127-144.	1.4	4
34	On determination of the geoid from measured gradients of the Earth's gravity field potential. <i>Earth-Science Reviews</i> , 2021, 221, 103773.	9.1	4
35	Local Recovery of Sub-Crustal Stress Due to Mantle Convection from Satellite-to-Satellite Tracking Data. <i>Acta Geophysica</i> , 2016, 64, 904-929.	2.0	3
36	Effect of the Earth's inner structure on the gravity in definitions of height systems. <i>Geophysical Journal International</i> , 2017, , ggx024.	2.4	2

#	ARTICLE	IF	CITATIONS
37	Spheroidal Integral Equations for Geodetic Inversion of Geopotential Gradients. Surveys in Geophysics, 2018, 39, 245-270.	4.6	2
38	Vertical and horizontal spheroidal boundary-value problems. Journal of Geodesy, 2018, 92, 811-826.	3.6	2
39	Comparison of GOCE Global Gravity Field Models to Test Fields in Southern Norway. International Association of Geodesy Symposia, 2014, , 59-65.	0.4	2