

Shin-Chan Han

List of Publications by Year in descending order

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80
papers

2,767
citations

159358

30
h-index

197535

49
g-index

83
all docs

83
docs citations

83
times ranked

2060
citing authors

#	ARTICLE	IF	CITATIONS
1	Along-Orbit Analysis of GRACE Follow-On Inter-Satellite Laser Ranging Measurements for Sub-Monthly Surface Mass Variations. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, e2021JB022983.	1.4	9
2	Impact of urbanization on precipitation and temperature over a lake-marsh wetland: A case study in Xiong'an New Area, China. <i>Agricultural Water Management</i> , 2021, 243, 106503.	2.4	20
3	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.	4.0	9
4	Comparison of spherical cap and rectangular harmonic analysis of airborne vector gravity data for high-resolution (1.5 Åkm) local geopotential field models over Tanzania. <i>Geophysical Journal International</i> , 2021, 227, 1465-1479.	1.0	3
5	The Application of CYGNSS Data for Soil Moisture and Inundation Mapping in Australia. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 10395-10404.	2.3	0
6	Novel Along-Track Processing of GRACE Follow-On Laser Ranging Measurements Found Abrupt Water Storage Increase and Land Subsidence During the 2021 March Australian Flooding. <i>Earth and Space Science</i> , 2021, 8, e2021EA001941.	1.1	11
7	GRACE Follow-On revealed Bangladesh was flooded early in the 2020 monsoon season due to premature soil saturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	13
8	Spheroidal forward modelling of the gravitational fields of 1 Ceres and the Moon. <i>Icarus</i> , 2020, 335, 113412.	1.1	11
9	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.	1.2	6
10	Multivariate data assimilation of GRACE, SMOS, SMAP measurements for improved regional soil moisture and groundwater storage estimates. <i>Advances in Water Resources</i> , 2020, 135, 103477.	1.7	47
11	GRACE gravitational measurements of tsunamis after the 2004, 2010, and 2011 great earthquakes. <i>Journal of Geodesy</i> , 2020, 94, 1.	1.6	17
12	Tidal Geopotential Dependence on Earth Ellipticity and Seawater Density and Its Detection With the GRACE Follow-On Laser Ranging Interferometer. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016774.	1.0	3
13	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.	0.9	5
14	Improved water storage estimates within the North China Plain by assimilating GRACE data into the CABLE model. <i>Journal of Hydrology</i> , 2020, 590, 125348.	2.3	34
15	GRACE Follow-On Laser Ranging Interferometer Measurements Uniquely Distinguish Short-Wavelength Gravitational Perturbations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089445.	1.5	32
16	Assessing Underground Water Exchange Between Regions Using GRACE Data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032570.	1.2	9
17	Improving regional groundwater storage estimates from GRACE and global hydrological models over Tasmania, Australia. <i>Hydrogeology Journal</i> , 2020, 28, 1809-1825.	0.9	28
18	A Joint Analysis of GPS Displacement and GRACE Geopotential Data for Simultaneous Estimation of Geocenter Motion and Gravitational Field. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12241-12263.	1.4	7

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19	Quantifying water storage change and land subsidence induced by reservoir impoundment using GRACE, Landsat, and GPS data. <i>Remote Sensing of Environment</i> , 2019, 233, 111385.	4.6	24
20	Reconstructing Terrestrial Water Storage Variations from 1980 to 2015 in the Beishan Area of China. <i>Geofluids</i> , 2019, 2019, 1-13.	0.3	14
21	Determination of ellipsoidal surface mass change from GRACE time-variable gravity data. <i>Geophysical Journal International</i> , 2019, 219, 248-259.	1.0	16
22	Gravitational Changes of the Earth's Free Oscillation From Earthquakes: Theory and Feasibility Study Using GRACE Inter-satellite Tracking. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 7483-7503.	1.4	7
23	Sea Level Rise in the Samoan Islands Escalated by Viscoelastic Relaxation After the 2009 Samoa-Tonga Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 4142-4156.	1.4	31
24	Forward modelling of global gravity fields with 3D density structures and an application to the high-resolution (~2 km) gravity fields of the Moon. <i>Journal of Geodesy</i> , 2018, 92, 847-862.	1.6	17
25	Evaluation of Groundwater Storage Variations Estimated from GRACE Data Assimilation and State-of-the-Art Land Surface Models in Australia and the North China Plain. <i>Remote Sensing</i> , 2018, 10, 483.	1.8	45
26	A Transfer Function Between Line-of-Sight Gravity Difference and GRACE Intersatellite Ranging Data and an Application to Hydrological Surface Mass Variation. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 9186-9201.	1.4	15
27	Statistical Downscaling of GRACE-Derived Groundwater Storage Using ET Data in the North China Plain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5973-5987.	1.2	97
28	On the use of the GRACE normal equation of inter-satellite tracking data for estimation of soil moisture and groundwater in Australia. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1811-1829.	1.9	27
29	On Computation of Potential, Gravity and Gravity Gradient from GRACE Inter-Satellite Ranging Data: A Systematic Study. <i>International Association of Geodesy Symposia</i> , 2018, , 91-96.	0.2	1
30	Land cover change explains the increasing discharge of the Paraná River. <i>Regional Environmental Change</i> , 2018, 18, 1871-1881.	1.4	32
31	Elastic deformation of the Australian continent induced by seasonal water cycles and the 2010-2011 La Niña determined using GPS and GRACE. <i>Geophysical Research Letters</i> , 2017, 44, 2763-2772.	1.5	28
32	Determination of global Earth outgoing radiation at high temporal resolution using a theoretical constellation of satellites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1114-1131.	1.2	13
33	GPS Recovery of Daily Hydrologic and Atmospheric Mass Variation: A Methodology and Results From the Australian Continent. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9328-9343.	1.4	15
34	Postseismic gravity change after the 2006-2007 great earthquake doublet and constraints on the asthenosphere structure in the central Kuril Islands. <i>Geophysical Research Letters</i> , 2016, 43, 3169-3177.	1.5	31
35	Seasonal clockwise gyration and tilt of the Australian continent chasing the center of mass of the Earth's system from GPS and GRACE. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7666-7680.	1.4	8
36	Coseismic compression/dilatation and viscoelastic uplift/subsidence following the 2012 Indian Ocean earthquakes quantified from satellite gravity observations. <i>Geophysical Research Letters</i> , 2015, 42, 3764-3772.	1.5	33

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37	Broadscale postseismic gravity change following the 2011 Tohoku-Oki earthquake and implication for deformation by viscoelastic relaxation and afterslip. <i>Geophysical Research Letters</i> , 2014, 41, 5797-5805.	1.5	43
38	Global characteristics of porosity and density stratification within the lunar crust from GRAIL gravity and Lunar Orbiter Laser Altimeter topography data. <i>Geophysical Research Letters</i> , 2014, 41, 1882-1889.	1.5	38
39	The role of groundwater in the Amazon water cycle: 3. Influence on terrestrial water storage computations and comparison with GRACE. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3233-3244.	1.2	83
40	Source parameter inversion for recent great earthquakes from a decade-long observation of global gravity fields. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1240-1267.	1.4	87
41	Determination and localized analysis of intersatellite line of sight gravity difference: Results from the GRAIL primary mission. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2323-2337.	1.5	16
42	Ice velocity mapping of Ross Ice Shelf, Antarctica by matching surface undulations measured by ICESat laser altimetry. <i>Remote Sensing of Environment</i> , 2012, 124, 251-258.	4.6	11
43	Gravity and geoid model in South Korea and its vicinity by spherical cap harmonic analysis. <i>Journal of Geodynamics</i> , 2012, 53, 27-33.	0.7	7
44	Global characteristics of the correlation and time lag between solar and ionospheric parameters in the 27-day period. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 77, 219-224.	0.6	22
45	Contribution of satellite gravimetry to understanding seismic source processes of the 2011 Tohoku-Oki earthquake. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	60
46	Expected improvements in determining continental hydrology, ice mass variations, ocean bottom pressure signals, and earthquakes using two pairs of dedicated satellites for temporal gravity recovery. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	32
47	Influence of variable uncertainties in seismic tomography models on constraining mantle viscosity from geoid observations. <i>Physics of the Earth and Planetary Interiors</i> , 2011, 184, 51-62.	0.7	18
48	New analysis of Lunar Prospector radio tracking data brings the nearside gravity field of the Moon with an unprecedented resolution. <i>Icarus</i> , 2011, 215, 455-459.	1.1	17
49	Validation of international reference ionosphere models using in situ measurements from GRACE K-band ranging system and CHAMP planar Langmuir probe. <i>Journal of Geodesy</i> , 2011, 85, 921-929.	1.6	16
50	Satellite Observations Defying the Long-Held Tsunami Genesis Theory. , 2011, , 327-342.		7
51	One centimeter-level observations of diurnal ocean tides from global monthly mean time-variable gravity fields. <i>Journal of Geodesy</i> , 2010, 84, 715-729.	1.6	12
52	Seasonal water storage on the Amazon floodplain measured from satellites. <i>Remote Sensing of Environment</i> , 2010, 114, 2448-2456.	4.6	119
53	GLGM-3: A degree-150 lunar gravity model from the historical tracking data of NASA Moon orbiters. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	42
54	Movement of Amazon surface water from time-variable satellite gravity measurements and implications for water cycle parameters in land surface models. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	27

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55	Regional gravity decrease after the 2010 Maule (Chile) earthquake indicates large-scale mass redistribution. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	82
56	Dynamics of surface water storage in the Amazon inferred from measurements of inter-satellite distance change. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	56
57	Improved nearside gravity field of the Moon by localizing the power law constraint. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	19
58	Assimilation of GRACE tide solutions into a numerical hydrodynamic inverse model. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	18
59	Localized spectral analysis of global satellite gravity fields for recovering time-variable mass redistributions. <i>Journal of Geodesy</i> , 2008, 82, 423-430.	1.6	21
60	Spatiospectral localization of global geopotential fields from the Gravity Recovery and Climate Experiment (GRACE) reveals the coseismic gravity change owing to the 2004 Sumatra-Andaman earthquake. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	44
61	Localized analysis of satellite tracking data for studying time-variable Earth's gravity fields. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	18
62	Implications of postseismic gravity change following the great 2004 Sumatra-Andaman earthquake from the regional harmonic analysis of GRACE intersatellite tracking data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	75
63	Improved regional gravity fields on the Moon from Lunar Prospector tracking data by means of localized spherical harmonic functions. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	27
64	Ocean tidal solutions in Antarctica from GRACE inter-satellite tracking data. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	25
65	Regional high-resolution spatiotemporal gravity modeling from GRACE data using spherical wavelets. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	36
66	Precise estimation of in situ geopotential differences from GRACE low-low satellite-to-satellite tracking and accelerometer data. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	32
67	Aliasing effect of high-frequency mass variations on GOCE recovery of the earth's gravity field. <i>Journal of Geodynamics</i> , 2006, 41, 69-76.	0.7	7
68	Regional gravity modeling in terms of spherical base functions. <i>Journal of Geodesy</i> , 2006, 81, 17-38.	1.6	118
69	Crustal Dilatation Observed by GRACE After the 2004 Sumatra-Andaman Earthquake. <i>Science</i> , 2006, 313, 658-662.	6.0	279
70	CHAMP Gravity Field Solutions and Geophysical Constraint Studies. , 2005, , 108-114.		1
71	Regional Geoid Undulations from CHAMP, Represented by Locally Supported Basis Functions. , 2005, , 230-236.		1
72	Non-isotropic filtering of GRACE temporal gravity for geophysical signal enhancement. <i>Geophysical Journal International</i> , 2005, 163, 18-25.	1.0	138

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73	High-resolution continental water storage recovery from low-resolution satellite-to-satellite tracking. Journal of Geodynamics, 2005, 39, 11-28.	0.7	31
74	Improved estimation of terrestrial water storage changes from GRACE. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	71
75	GRACE observations of M2 and S2 ocean tides underneath the Filchner-Ronne and Larsen ice shelves, Antarctica. Geophysical Research Letters, 2005, 32, .	1.5	38
76	Efficient Determination of Global Gravity Field from Satellite-to-satellite Tracking Mission. Celestial Mechanics and Dynamical Astronomy, 2004, 88, 69-102.	0.5	40
77	Time-variable aliasing effects of ocean tides, atmosphere, and continental water mass on monthly mean GRACE gravity field. Journal of Geophysical Research, 2004, 109, .	3.3	102
78	Efficient gravity field recovery using in situ disturbing potential observables from CHAMP. Geophysical Research Letters, 2002, 29, 36-1-36-4.	1.5	33
79	Accurate absolute GPS positioning through satellite clock error estimation. Journal of Geodesy, 2001, 75, 33-43.	1.6	54
80	Static and temporal gravity field recovery using grace potential difference observables. Advances in Geosciences, 0, 1, 19-26.	12.0	17