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	Crustal Dilatation Observed by GRACE After the 2004 Sumatra-Andaman Earthquake. Science, 2006, 313, 658-662.	6.0	279
2	Non-isotropic filtering of GRACE temporal gravity for geophysical signal enhancement. Geophysical Journal International, 2005, 163, 18-25.	1.0	138
3	Seasonal water storage on the Amazon floodplain measured from satellites. Remote Sensing of Environment, 2010, 114, 2448-2456.	4.6	119
4	Regional gravity modeling in terms of spherical base functions. Journal of Geodesy, 2006, 81, 17-38.	1.6	118
5	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
6	Statistical Downscaling of GRACEâ€Derived Groundwater Storage Using ET Data in the North China Plain. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5973-5987.	1.2	97
7	Source parameter inversion for recent great earthquakes from a decadeâ€long observation of global gravity fields. Journal of Geophysical Research: Solid Earth, 2013, 118, 1240-1267.	1.4	87
8	The role of groundwater in the Amazon water cycle: 3. Influence on terrestrial water storage computations and comparison with GRACE. Journal of Geophysical Research D: Atmospheres, 2013, 118, 3233-3244.	1.2	83
9	Regional gravity decrease after the 2010 Maule (Chile) earthquake indicates largeâ€scale mass redistribution. Geophysical Research Letters, 2010, 37, .	1.5	82
10	Implications of postseismic gravity change following the great 2004 Sumatraâ€Andaman earthquake from the regional harmonic analysis of GRACE intersatellite tracking data. Journal of Geophysical Research, 2008, 113, .	3.3	75
11	Improved estimation of terrestrial water storage changes from GRACE. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	71
12	Contribution of satellite gravimetry to understanding seismic source processes of the 2011 Tohoku-Oki earthquake. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	60
13	Dynamics of surface water storage in the Amazon inferred from measurements of interâ€satellite distance change. Geophysical Research Letters, 2009, 36, .	1.5	56
14	Accurate absolute GPS positioning through satellite clock error estimation. Journal of Geodesy, 2001, 75, 33-43.	1.6	54
15	Multivariate data assimilation of GRACE, SMOS, SMAP measurements for improved regional soil moisture and groundwater storage estimates. Advances in Water Resources, 2020, 135, 103477.	1.7	47
16	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. Remote Sensing, 2018, 10, 483.	1.8	45
17	Spatiospectral localization of global geopotential fields from the Gravity Recovery and Climate Experiment (GRACE) reveals the coseismic gravity change owing to the 2004 Sumatraâ€Andaman earthquake. Journal of Geophysical Research, 2008, 113, .	3.3	44
18	Broadscale postseismic gravity change following the 2011 Tohokuâ€Oki earthquake and implication for deformation by viscoelastic relaxation and afterslip. Geophysical Research Letters, 2014, 41, 5797-5805.	1.5	43

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19	GLGMâ€3: A degreeâ€150 lunar gravity model from the historical tracking data of NASA Moon orbiters. Journal of Geophysical Research, 2010, 115, .	3.3	42
20	Efficient Determination of Global Gravity Field from Satellite-to-satellite Tracking Mission. Celestial Mechanics and Dynamical Astronomy, 2004, 88, 69-102.	0.5	40
21	GRACE observations of M2and S2ocean tides underneath the Filchner-Ronne and Larsen ice shelves, Antarctica. Geophysical Research Letters, 2005, 32, .	1.5	38
22	Global characteristics of porosity and density stratification within the lunar crust from GRAIL gravity and Lunar Orbiter Laser Altimeter topography data. Geophysical Research Letters, 2014, 41, 1882-1889.	1.5	38
23	Regional high-resolution spatiotemporal gravity modeling from GRACE data using spherical wavelets. Geophysical Research Letters, 2006, 33, .	1.5	36
24	Improved water storage estimates within the North China Plain by assimilating GRACE data into the CABLE model. Journal of Hydrology, 2020, 590, 125348.	2.3	34
25	Efficient gravity field recovery using in situ disturbing potential observables from CHAMP. Geophysical Research Letters, 2002, 29, 36-1-36-4.	1.5	33
26	Coseismic compression/dilatation and viscoelastic uplift/subsidence following the 2012 Indian Ocean earthquakes quantified from satellite gravity observations. Geophysical Research Letters, 2015, 42, 3764-3772.	1.5	33
27	Precise estimation of in situ geopotential differences from GRACE low-low satellite-to-satellite tracking and accelerometer data. Journal of Geophysical Research, 2006, 111, .	3.3	32
28	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. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	32
29	Land cover change explains the increasing discharge of the ParanÃ¡ River. Regional Environmental Change, 2018, 18, 1871-1881.	1.4	32
30	GRACE Followâ€On Laser Ranging Interferometer Measurements Uniquely Distinguish Shortâ€Wavelength Gravitational Perturbations. Geophysical Research Letters, 2020, 47, e2020GL089445.	1.5	32
31	High-resolution continental water storage recovery from lowâ€“low satellite-to-satellite tracking. Journal of Geodynamics, 2005, 39, 11-28.	0.7	31
32	Postseismic gravity change after the 2006â€“2007 great earthquake doublet and constraints on the asthenosphere structure in the central Kuril Islands. Geophysical Research Letters, 2016, 43, 3169-3177.	1.5	31
33	Sea Level Rise in the Samoan Islands Escalated by Viscoelastic Relaxation After the 2009 Samoaâ€Tonga Earthquake. Journal of Geophysical Research: Solid Earth, 2019, 124, 4142-4156.	1.4	31
34	Elastic deformation of the Australian continent induced by seasonal water cycles and the 2010â€“2011 La NiÃ±a determined using GPS and GRACE. Geophysical Research Letters, 2017, 44, 2763-2772.	1.5	28
35	Improving regional groundwater storage estimates from GRACE and global hydrological models over Tasmania, Australia. Hydrogeology Journal, 2020, 28, 1809-1825.	0.9	28
36	Improved regional gravity fields on the Moon from Lunar Prospector tracking data by means of localized spherical harmonic functions. Journal of Geophysical Research, 2008, 113, .	3.3	27

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37	Movement of Amazon surface water from timeâ€variable satellite gravity measurements and implications for water cycle parameters in land surface models. Geochemistry, Geophysics, Geosystems, 2010, 11, .	1.0	27
38	On the use of the GRACE normal equation of inter-satellite tracking data for estimation of soil moisture and groundwater in Australia. Hydrology and Earth System Sciences, 2018, 22, 1811-1829.	1.9	27
39	Ocean tidal solutions in Antarctica from GRACE interâ€satellite tracking data. Geophysical Research Letters, 2007, 34, .	1.5	25
40	Quantifying water storage change and land subsidence induced by reservoir impoundment using GRACE, Landsat, and GPS data. Remote Sensing of Environment, 2019, 233, 111385.	4.6	24
41	Global characteristics of the correlation and time lag between solar and ionospheric parameters in the 27-day period. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 77, 219-224.	0.6	22
42	Localized spectral analysis of global satellite gravity fields for recovering time-variable mass redistributions. Journal of Geodesy, 2008, 82, 423-430.	1.6	21
43	Impact of urbanization on precipitation and temperature over a lake-marsh wetland: A case study in Xiongâ€™an New Area, China. Agricultural Water Management, 2021, 243, 106503.	2.4	20
44	Improved nearside gravity field of the Moon by localizing the power law constraint. Geophysical Research Letters, 2009, 36, .	1.5	19
45	Localized analysis of satellite tracking data for studying timeâ€variable Earth's gravity fields. Journal of Geophysical Research, 2008, 113, .	3.3	18
46	Assimilation of GRACE tide solutions into a numerical hydrodynamic inverse model. Geophysical Research Letters, 2009, 36, .	1.5	18
47	Influence of variable uncertainties in seismic tomography models on constraining mantle viscosity from geoid observations. Physics of the Earth and Planetary Interiors, 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. Icarus, 2011, 215, 455-459.	1.1	17
49	Forward modelling of global gravity fields with 3D density structures and an application to the high-resolution (~Â2Âkm) gravity fields of the Moon. Journal of Geodesy, 2018, 92, 847-862.	1.6	17
50	GRACE gravitational measurements of tsunamis after the 2004, 2010, and 2011 great earthquakes. Journal of Geodesy, 2020, 94, 1.	1.6	17
51	Static and temporal gravity field recovery using grace potential difference observables. Advances in Geosciences, 0, 1, 19-26.	12.0	17
52	Validation of international reference ionosphere models using in situ measurements from GRACE K-band ranging system and CHAMP planar Langmuir probe. Journal of Geodesy, 2011, 85, 921-929.	1.6	16
53	Determination and localized analysis of intersatellite line of sight gravity difference: Results from the GRAIL primary mission. Journal of Geophysical Research E: Planets, 2013, 118, 2323-2337.	1.5	16
54	Determination of ellipsoidal surface mass change from GRACE time-variable gravity data. Geophysical Journal International, 2019, 219, 248-259.	1.0	16

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55	GPS Recovery of Daily Hydrologic and Atmospheric Mass Variation: A Methodology and Results From the Australian Continent. Journal of Geophysical Research: Solid Earth, 2017, 122, 9328-9343.	1.4	15
56	A Transfer Function Between Lineâ€ofâ€Sight Gravity Difference and GRACE Intersatellite Ranging Data and an Application to Hydrological Surface Mass Variation. Journal of Geophysical Research: Solid Earth, 2018, 123, 9186-9201.	1.4	15
57	Reconstructing Terrestrial Water Storage Variations from 1980 to 2015 in the Beishan Area of China. Geofluids, 2019, 2019, 1-13.	0.3	14
58	Determination of global Earth outgoing radiation at high temporal resolution using a theoretical constellation of satellites. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1114-1131.	1.2	13
59	GRACE Follow-On revealed Bangladesh was flooded early in the 2020 monsoon season due to premature soil saturation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	13
60	One centimeter-level observations of diurnal ocean tides from global monthly mean time-variable gravity fields. Journal of Geodesy, 2010, 84, 715-729.	1.6	12
61	Ice velocity mapping of Ross Ice Shelf, Antarctica by matching surface undulations measured by ICESat laser altimetry. Remote Sensing of Environment, 2012, 124, 251-258.	4.6	11
62	Spheroidal forward modelling of the gravitational fields of 1 Ceres and the Moon. Icarus, 2020, 335, 113412.	1.1	11
63	Novel Alongâ€Track Processing of GRACE Followâ€On Laser Ranging Measurements Found Abrupt Water Storage Increase and Land Subsidence During the 2021 March Australian Flooding. Earth and Space Science, 2021, 8, e2021EA001941.	1.1	11
64	Assessing Underground Water Exchange Between Regions Using GRACE Data. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032570.	1.2	9
65	On the use of spherical harmonic series inside the minimum Brillouin sphere: Theoretical review and evaluation by GRAIL and LOLA satellite data. Earth-Science Reviews, 2021, 222, 103739.	4.0	9
66	Alongâ€Orbit Analysis of GRACE Followâ€On Interâ€Satellite Laser Ranging Measurements for Subâ€Monthly Surface Mass Variations. Journal of Geophysical Research: Solid Earth, 2022, 127, e2021JB022983.	1.4	9
67	Seasonal clockwise gyration and tilt of the Australian continent chasing the center of mass of the Earth's system from GPS and GRACE. Journal of Geophysical Research: Solid Earth, 2016, 121, 7666-7680.	1.4	8
68	Aliasing effect of high-frequency mass variations on GOCE recovery of the earth's gravity field. Journal of Geodynamics, 2006, 41, 69-76.	0.7	7
69	Gravity and geoid model in South Korea and its vicinity by spherical cap harmonic analysis. Journal of Geodynamics, 2012, 53, 27-33.	0.7	7
70	A Joint Analysis of GPS Displacement and GRACE Geopotential Data for Simultaneous Estimation of Geocenter Motion and Gravitational Field. Journal of Geophysical Research: Solid Earth, 2019, 124, 12241-12263.	1.4	7
71	Gravitational Changes of the Earth's Free Oscillation From Earthquakes: Theory and Feasibility Study Using GRACE Interâ€satellite Tracking. Journal of Geophysical Research: Solid Earth, 2019, 124, 7483-7503.	1.4	7
72	Satellite Observations Defying the Long-Held Tsunami Genesis Theory. , 2011, , 327-342.		7

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73	Integral inversion of GRAIL inter-satellite gravitational accelerations for regional recovery of the lunar gravitational field. Advances in Space Research, 2020, 65, 630-649.	1.2	6
74	Crustal density and global gravitational field estimation of the Moon from GRAIL and LOLA satellite data. Planetary and Space Science, 2020, 192, 105032.	0.9	5
75	Tidal Geopotential Dependence on Earth Ellipticity and Seawater Density and Its Detection With the GRACE Followâ€On Laser Ranging Interferometer. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016774.	1.0	3
76	Comparison of spherical cap and rectangular harmonic analysis of airborne vector gravity data for high-resolution (1.5Âkm) local geopotential field models over Tanzania. Geophysical Journal International, 2021, 227, 1465-1479.	1.0	3
77	CHAMP Gravity Field Solutions and Geophysical Constraint Studies. , 2005, , 108-114.		1
78	Regional Geoid Undulations from CHAMP, Represented by Locally Supported Basis Functions. , 2005, , 230-236.		1
79	On Computation of Potential, Gravity and Gravity Gradient from GRACE Inter-Satellite Ranging Data: A Systematic Study. International Association of Geodesy Symposia, 2018, , 91-96.	0.2	1
80	The Application of CYGNSS Data for Soil Moisture and Inundation Mapping in Australia. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 10395-10404.	2.3	0