

J L Chen

List of Publications by Year in descending order

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122
papers

7,499
citations

46984

47
h-index

54882

84
g-index

126
all docs

126
docs citations

126
times ranked

4562
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating groundwater storage changes in the Mississippi River basin (USA) using GRACE. <i>Hydrogeology Journal</i> , 2007, 15, 159-166.	0.9	526
2	Analysis of terrestrial water storage changes from GRACE and GLDAS. <i>Water Resources Research</i> , 2008, 44, .	1.7	449
3	Basin scale estimates of evapotranspiration using GRACE and other observations. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	405
4	Satellite Gravity Measurements Confirm Accelerated Melting of Greenland Ice Sheet. <i>Science</i> , 2006, 313, 1958-1960.	6.0	348
5	Global evaluation of new <scp>GRACE</scp> mascon products for hydrologic applications. <i>Water Resources Research</i> , 2016, 52, 9412-9429.	1.7	344
6	Accelerated Antarctic ice loss from satellite gravity measurements. <i>Nature Geoscience</i> , 2009, 2, 859-862.	5.4	268
7	The 2009 exceptional Amazon flood and interannual terrestrial water storage change observed by GRACE. <i>Water Resources Research</i> , 2010, 46, .	1.7	218
8	2005 drought event in the Amazon River basin as measured by GRACE and estimated by climate models. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	210
9	Long-term groundwater variations in Northwest India from satellite gravity measurements. <i>Global and Planetary Change</i> , 2014, 116, 130-138.	1.6	208
10	Contribution of ice sheet and mountain glacier melt to recent sea level rise. <i>Nature Geoscience</i> , 2013, 6, 549-552.	5.4	167
11	GRACE detects coseismic and postseismic deformation from the Sumatra-Andaman earthquake. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	162
12	Total basin discharge for the Amazon and Mississippi River basins from GRACE and a land-atmosphere water balance. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	154
13	Low degree spherical harmonic influences on Gravity Recovery and Climate Experiment (GRACE) water storage estimates. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	143
14	Terrestrial water storage anomalies of Yangtze River Basin droughts observed by GRACE and connections with ENSO. <i>Global and Planetary Change</i> , 2015, 126, 35-45.	1.6	142
15	Groundwater Storage Changes: Present Status from GRACE Observations. <i>Surveys in Geophysics</i> , 2016, 37, 397-417.	2.1	133
16	Patagonia Icefield melting observed by Gravity Recovery and Climate Experiment (GRACE). <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	126
17	Time-variable gravity from space and present-day mass redistribution in the Earth system. <i>Earth and Planetary Science Letters</i> , 2010, 298, 263-274.	1.8	126
18	Antarctic mass rates from GRACE. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	114

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19	Long-term Caspian Sea level change. <i>Geophysical Research Letters</i> , 2017, 44, 6993-7001.	1.5	97
20	Attenuation effect on seasonal basin-scale water storage changes from GRACE time-variable gravity. <i>Journal of Geodesy</i> , 2007, 81, 237-245.	1.6	95
21	Long-term groundwater storage change in Victoria, Australia from satellite gravity and in situ observations. <i>Global and Planetary Change</i> , 2016, 139, 56-65.	1.6	95
22	Terrestrial water mass load changes from Gravity Recovery and Climate Experiment (GRACE). <i>Water Resources Research</i> , 2006, 42, .	1.7	93
23	Geophysical interpretation of observed geocenter variations. <i>Journal of Geophysical Research</i> , 1999, 104, 2683-2690.	3.3	92
24	Reducing leakage error in GRACE-observed long-term ice mass change: a case study in West Antarctica. <i>Journal of Geodesy</i> , 2015, 89, 925-940.	1.6	92
25	Recent La Plata basin drought conditions observed by satellite gravimetry. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	91
26	Seasonal global water mass budget and mean sea level variations. <i>Geophysical Research Letters</i> , 1998, 25, 3555-3558.	1.5	86
27	Global Terrestrial Water Storage Changes and Connections to ENSO Events. <i>Surveys in Geophysics</i> , 2018, 39, 1-22.	2.1	81
28	Antarctic regional ice loss rates from GRACE. <i>Earth and Planetary Science Letters</i> , 2008, 266, 140-148.	1.8	80
29	Hydrologic implications of GRACE satellite data in the Colorado River Basin. <i>Water Resources Research</i> , 2015, 51, 9891-9903.	1.7	79
30	Spatial sensitivity of the Gravity Recovery and Climate Experiment (GRACE) time-variable gravity observations. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	78
31	Alaskan mountain glacial melting observed by satellite gravimetry. <i>Earth and Planetary Science Letters</i> , 2006, 248, 368-378.	1.8	78
32	Optimized smoothing of Gravity Recovery and Climate Experiment (GRACE) time-variable gravity observations. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	77
33	Low degree gravitational changes from GRACE: Validation and interpretation. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	75
34	Revised atmospheric excitation function series related to Earth's variable rotation under consideration of surface topography. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	75
35	Comparison of Groundwater Storage Changes From GRACE Satellites With Monitoring and Modeling of Major U.S. Aquifers. <i>Water Resources Research</i> , 2020, 56, e2020WR027556.	1.7	73
36	Rapid ice melting drives Earth's pole to the east. <i>Geophysical Research Letters</i> , 2013, 40, 2625-2630.	1.5	72

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37	Interannual variability of Greenland ice losses from satellite gravimetry. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	71
38	Seasonal global mean sea level change from satellite altimeter, GRACE, and geophysical models. <i>Journal of Geodesy</i> , 2005, 79, 532-539.	1.6	68
39	GRACE's spatial aliasing error. <i>Geophysical Journal International</i> , 2008, 172, 41-48.	1.0	67
40	Applications and Challenges of GRACE and GRACE Follow-On Satellite Gravimetry. <i>Surveys in Geophysics</i> , 2022, 43, 305-345.	2.1	65
41	Hydrological excitations of polar motion, 1993-2002. <i>Geophysical Journal International</i> , 2005, 160, 833-839.	1.0	59
42	Long-term and seasonal Caspian Sea level change from satellite gravity and altimeter measurements. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 2274-2290.	1.4	58
43	Hydrological and oceanic excitations to polar motion and length-of-day variation. <i>Geophysical Journal International</i> , 2000, 141, 149-156.	1.0	56
44	S2 tide aliasing in GRACE time-variable gravity solutions. <i>Journal of Geodesy</i> , 2009, 83, 679-687.	1.6	54
45	Low degree gravity changes from GRACE, Earth rotation, geophysical models, and satellite laser ranging. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	51
46	Seasonal sea level change from TOPEX/Poseidon observation and thermal contribution. <i>Journal of Geodesy</i> , 2000, 73, 638-647.	1.6	48
47	Retrieving snow mass from GRACE terrestrial water storage change with a land surface model. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	48
48	Global Ocean Mass Change From GRACE and GRACE Follow-On and Altimeter and Argo Measurements. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090656.	1.5	47
49	Low degree gravitational changes from earth rotation and geophysical models. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	37
50	Global sea level change signatures observed by GRACE satellite gravimetry. <i>Scientific Reports</i> , 2018, 8, 13519.	1.6	37
51	Basin-scale River Runoff Estimation From GRACE Gravity Satellites, Climate Models, and In Situ Observations: A Case Study in the Amazon Basin. <i>Water Resources Research</i> , 2020, 56, e2020WR028032.	1.7	36
52	Seasonal water storage change of the Yangtze River basin detected by GRACE. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 483-491.	0.9	34
53	Quantification of Ocean Mass Change Using Gravity Recovery and Climate Experiment, Satellite Altimeter, and Argo Floats Observations. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 10,212.	1.4	33
54	Contributions of Altimetry and Argo to Non-closure of the Global Mean Sea Level Budget Since 2016. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092824.	1.5	33

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55	Global mass balance and the length-of-day variation. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	32
56	Satellite gravimetry and mass transport in the earth system. <i>Geodesy and Geodynamics</i> , 2019, 10, 402-415.	1.0	32
57	Observations of annual variations of the Earth's gravitational field using satellite laser ranging and geophysical models. <i>Geophysical Research Letters</i> , 2000, 27, 1783-1786.	1.5	29
58	Anthropogenic and climate-driven water depletion in Asia. <i>Geophysical Research Letters</i> , 2016, 43, 9061-9069.	1.5	29
59	Seasonal excitation of polar motion. <i>Journal of Geodynamics</i> , 2012, 62, 8-15.	0.7	28
60	A new assessment of long-wavelength gravitational variations. <i>Journal of Geophysical Research</i> , 2000, 105, 16271-16277.	3.3	27
61	Assessing water storage changes of Lake Poyang from multi-mission satellite data and hydrological models. <i>Journal of Hydrology</i> , 2020, 590, 125229.	2.3	27
62	Interannual variability of low-degree gravitational change, 1980?2002. <i>Journal of Geodesy</i> , 2005, 78, 535-543.	1.6	26
63	Long-Term Water Storage Changes of Lake Volta from GRACE and Satellite Altimetry and Connections with Regional Climate. <i>Remote Sensing</i> , 2017, 9, 842.	1.8	26
64	Geocenter variations derived from GPS tracking of the GRACE satellites. <i>Journal of Geodesy</i> , 2009, 83, 895-901.	1.6	25
65	Improved Quantification of Global Mean Ocean Mass Change Using GRACE Satellite Gravimetry Measurements. <i>Geophysical Research Letters</i> , 2019, 46, 13984-13991.	1.5	24
66	Surface Mass Variations from GPS and GRACE/GFO: A Case Study in Southwest China. <i>Remote Sensing</i> , 2020, 12, 1835.	1.8	23
67	Error Assessment of GRACE and GRACE Follow-On Mass Change. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022124.	1.4	23
68	Oceanic excitations on polar motion: a cross comparison among models. <i>Geophysical Journal International</i> , 2005, 162, 390-398.	1.0	22
69	Groundwater Storage Changes: Present Status from GRACE Observations. <i>Space Sciences Series of ISSI</i> , 2016, , 207-227.	0.0	22
70	Topographic effects on coseismic gravity change for the 2011 Tohoku-Oki earthquake and comparison with GRACE. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5509-5537.	1.4	21
71	Missing Hydrological Contribution to Sea Level Rise. <i>Geophysical Research Letters</i> , 2019, 46, 12049-12055.	1.5	20
72	Interannual mean sea level change and the Earth's water mass budget. <i>Geophysical Research Letters</i> , 2000, 27, 3073-3076.	1.5	19

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73	Oceanic effects on polar motion determined from an ocean model and satellite altimetry: 1993-2001. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	19
74	Deriving surface motion of mountain glaciers in the Tuomuer-Khan Tengri Mountain Ranges from PALSAR images. <i>Global and Planetary Change</i> , 2013, 101, 61-71.	1.6	19
75	Interannual Oscillations in Earth Rotation. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 13404-13414.	1.4	19
76	The Greenland Ice Sheet Response to Transient Climate Change. <i>Journal of Climate</i> , 2011, 24, 3469-3483.	1.2	17
77	Broadband assessment of degree-2 gravitational changes from GRACE and other estimates, 2002-2015. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 2112-2128.	1.4	16
78	Ellipsoidal Correction in GRACE Surface Mass Change Estimation. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9437-9460.	1.4	16
79	A multirheology ice model: Formulation and application to the Greenland ice sheet. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	15
80	Seismologic applications of GRACE time-variable gravity measurements. <i>Earthquake Science</i> , 2014, 27, 229-245.	0.4	15
81	Large-scale mass redistribution in the oceans, 1993-2001. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	14
82	Ice and groundwater effects on long term polar motion (1979-2010). <i>Journal of Geodynamics</i> , 2017, 106, 66-73.	0.7	14
83	Reconciling GRACE and GPS estimates of long-term load deformation in southern Greenland. <i>Geophysical Journal International</i> , 2018, 212, 1302-1313.	1.0	14
84	Seismic Impact of Large Earthquakes on Estimating Global Mean Ocean Mass Change from GRACE. <i>Remote Sensing</i> , 2020, 12, 935.	1.8	14
85	Sea level fingerprints and regional sea level change. <i>Earth and Planetary Science Letters</i> , 2021, 567, 116985.	1.8	14
86	Decadal Polar Motion of the Earth Excited by the Convective Outer Core From Geodynamo Simulations. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8459-8473.	1.4	13
87	Earth's Rotation: Observations and Relation to Deep Interior. <i>Surveys in Geophysics</i> , 2022, 43, 149-175.	2.1	13
88	Hydrological impacts on seasonal sea level change. <i>Global and Planetary Change</i> , 2001, 32, 25-32.	1.6	12
89	Long-term and inter-annual mass changes of Patagonia Ice Field from GRACE. <i>Geodesy and Geodynamics</i> , 2019, 10, 100-109.	1.0	12
90	Improved Estimation of Regional Surface Mass Variations from GRACE Intersatellite Geopotential Differences Using a Priori Constraints. <i>Remote Sensing</i> , 2020, 12, 2553.	1.8	11

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91	Antarctic ice mass variations from 1979 to 2017 driven by anomalous precipitation accumulation. <i>Scientific Reports</i> , 2020, 10, 20366.	1.6	11
92	Discrete polar motion equations for high frequencies. <i>Journal of Geodesy</i> , 1996, 70, 581-585.	1.6	9
93	Geophysical contributions to satellite nodal residual variation. <i>Journal of Geophysical Research</i> , 1999, 104, 23237-23244.	3.3	9
94	Global terrestrial water storage connectivity revealed using complex climate network analyses. <i>Nonlinear Processes in Geophysics</i> , 2015, 22, 433-446.	0.6	8
95	Decadal and quadratic variations of Earth's oblateness and polar ice mass balance from 1979 to 2010. <i>Geophysical Journal International</i> , 2015, 203, 475-481.	1.0	8
96	Constrained Linear Deconvolution of GRACE Anomalies to Correct Spatial Leakage. <i>Remote Sensing</i> , 2020, 12, 1798.	1.8	7
97	Secular polar motion observed by GRACE. <i>Journal of Geodesy</i> , 2021, 95, 40.	1.6	7
98	Tropospheric and stratospheric wind contributions to Earth's variable rotation from NCEP/NCAR reanalyses (2000-2005). <i>Geophysical Journal International</i> , 2008, 174, 453-463.	1.0	6
99	Geocenter motion time series derived from GRACE GPS and LAGEOS observations. <i>Journal of Geodesy</i> , 2019, 93, 1931-1942.	1.6	6
100	Assessment of degree-2 order-1 gravitational changes from GRACE and GRACE Follow-on, Earth rotation, satellite laser ranging, and models. <i>Journal of Geodesy</i> , 2021, 95, 1.	1.6	6
101	Thermosteric Effects on Interannual and Long-term Global Mean Sea Level Changes. <i>Journal of Geodesy</i> , 2006, 80, 240-247.	1.6	5
102	Sea-Level Fingerprints Due to Present-Day Water Mass Redistribution in Observed Sea-Level Data. <i>Remote Sensing</i> , 2021, 13, 4667.	1.8	5
103	Uncertainty in GRACE/GRACE-follow on global ocean mass change estimates due to mis-modeled glacial isostatic adjustment and geocenter motion. <i>Scientific Reports</i> , 2022, 12, 6617.	1.6	5
104	Reassessment of electromagnetic core-mantle coupling and its implications to the Earth's decadal polar motion. <i>Geodesy and Geodynamics</i> , 2019, 10, 356-362.	1.0	4
105	Contributions of hydrological processes to sea level change. <i>Physics and Chemistry of the Earth</i> , 2002, 27, 1439-1443.	1.2	3
106	A new ice sheet model validated by remote sensing of the Greenland ice sheet. <i>Open Geosciences</i> , 2010, 2, .	0.6	3
107	Filters to estimate water storage variations from GRACE. , 2005, , 607-611.		2
108	Vertical motion at TEHN (Iran) from Caspian Sea and other environmental loads. <i>Journal of Geodynamics</i> , 2018, 122, 17-24.	0.7	2

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109	Uncertainty Assessments of Load Deformation from Different GPS Time Series Products, GRACE Estimates and Model Predictions: A Case Study over Europe. Remote Sensing, 2021, 13, 2765.	1.8	2
110	Groundwater Storage Monitoring From Space. , 2018, , 295-314.		1
111	Applications of Gravity Recovery and Climate Experiment (GRACE) in global groundwater study. , 2021, , 531-543.		1
112	Multi-Sensor Monitoring of Low-Degree Gravitational Changes. International Association of Geodesy Symposia, 2012, , 293-300.	0.2	1
113	Global sea level change signatures observed by GRACE satellite gravimetry. , 0, .		1
114	Discrete polar motion equations for high frequencies. Journal of Geodesy, 1996, 70, 581-585.	1.6	1
115	Polar motion excitation â€“ A broad-band perspective. Journal of Geodynamics, 2012, 62, 2-7.	0.7	0
116	Monitoring Terrestrial Water Cycle in Tibetan Plateau Using Satellite Gravimetry. Acta Geologica Sinica, 2013, 87, 626-671.	0.8	0
117	Foreword: International Space Science Institute (ISSI) Workshop on Remote Sensing and Water Resources. Surveys in Geophysics, 2016, 37, 191-194.	2.1	0
118	Geodetic Observations as a Monitor of Climate Change. , 0, , 72-88.		0
119	Tracking Earthâ€™s Water in Motion from Satellite Gravity Observations. Encyclopedia of Earth Sciences Series, 2021, , 1813-1819.	0.1	0
120	Gravity Field, Temporal Variations from Space Techniques. Encyclopedia of Earth Sciences Series, 2021, , 621-626.	0.1	0
121	Impact of Large-Scale Oceanâ€™Atmosphere Interactions on Interannual Water Storage Changes in the Tropics and Subtropics. Remote Sensing, 2021, 13, 3529.	1.8	0
122	Tracking Earthâ€™s Water in Motion from Satellite Gravity Observations. Encyclopedia of Earth Sciences Series, 2020, , 1-7.	0.1	0