

Ehsan Forootan

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

3,190
citations

101535

36
h-index

155644

55
g-index

89
all docs

89
docs citations

89
times ranked

2614
citing authors

#	ARTICLE	IF	CITATIONS
1	Bayesian convolutional neural networks for predicting the terrestrial water storage anomalies during GRACE and GRACE-FO gap. <i>Journal of Hydrology</i> , 2022, 604, 127244.	5.4	39
2	Forecasting global and multi-level thermospheric neutral density and ionospheric electron content by tuning models against satellite-based accelerometer measurements. <i>Scientific Reports</i> , 2022, 12, 2095.	3.3	6
3	A sequential calibration approach based on the ensemble Kalman filter (C-EnKF) for forecasting total electron content (TEC). <i>Journal of Geodesy</i> , 2022, 96, .	3.6	5
4	A hierarchical Constrained Bayesian (ConBay) approach to jointly estimate water storage and Post-Glacial Rebound from GRACE(-FO) and GNSS data. <i>All Earth</i> , 2022, 34, 120-146.	2.1	2
5	Exploring groundwater and soil water storage changes across the CONUS at 12.5Åkm resolution by a Bayesian integration of GRACE data into W3RA. <i>Science of the Total Environment</i> , 2021, 758, 143579.	8.0	18
6	Analyzing GNSS Measurements to Detect and Predict Bridge Movements Using the Kalman Filter (KF) and Neural Network (NN) Techniques. <i>Geomatics</i> , 2021, 1, 65-80.	1.9	5
7	A functional modelling approach for reconstructing 3 and 4 dimensional wet refractivity fields in the lower atmosphere using GNSS measurements. <i>Advances in Space Research</i> , 2021, 68, 4024-4038.	2.6	8
8	A New 1ÅHourly ERA5ÅBased Atmosphere DeÅAliasing Product for GRACE, GRACEÅFO, and Future Gravity Missions. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021926.	3.4	5
9	A simultaneous calibration and data assimilation (C/DA) to improve NRLMSISE00 using thermospheric neutral density (TND) from space-borne accelerometer measurements. <i>Geophysical Journal International</i> , 2020, 224, 1096-1115.	2.4	8
10	A Least Squares Solution to Regionalize VTEC Estimates for Positioning Applications. <i>Remote Sensing</i> , 2020, 12, 3545.	4.0	2
11	An Iterative ICA-Based Reconstruction Method to Produce Consistent Time-Variable Total Water Storage Fields Using GRACE and Swarm Satellite Data. <i>Remote Sensing</i> , 2020, 12, 1639.	4.0	36
12	Comparison of DataÅDriven Techniques to Reconstruct (1992Å2002) and Predict (2017Å2018) GRACEÅLike Gridded Total Water Storage Changes Using Climate Inputs. <i>Water Resources Research</i> , 2020, 56, e2019WR026551.	4.2	72
13	Comparing global hydrological models and combining them with GRACE by dynamic model data averaging (DMDA). <i>Advances in Water Resources</i> , 2020, 138, 103528.	3.8	16
14	Recovery of Rapid Water Mass Changes (RWMC) by Kalman Filtering of GRACE Observations. <i>Remote Sensing</i> , 2020, 12, 1299.	4.0	11
15	Assessing data assimilation frameworks for using multi-mission satellite products in a hydrological context. <i>Science of the Total Environment</i> , 2019, 647, 1031-1043.	8.0	27
16	Estimating and predicting corrections for empirical thermospheric models. <i>Geophysical Journal International</i> , 2019, 218, 479-493.	2.4	5
17	Understanding the global hydrological droughts of 2003Å2016 and their relationships with teleconnections. <i>Science of the Total Environment</i> , 2019, 650, 2587-2604.	8.0	121
18	Determining water storage depletion within Iran by assimilating GRACE data into the W3RA hydrological model. <i>Advances in Water Resources</i> , 2018, 114, 1-18.	3.8	58

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19	A study of Bangladesh's sub-surface water storages using satellite products and data assimilation scheme. <i>Science of the Total Environment</i> , 2018, 625, 963-977.	8.0	41
20	Developing a Complex Independent Component Analysis (CICA) Technique to Extract Non-stationary Patterns from Geophysical Time Series. <i>Surveys in Geophysics</i> , 2018, 39, 435-465.	4.6	17
21	Comparing multi-objective optimization techniques to calibrate a conceptual hydrological model using in situ runoff and daily GRACE data. <i>Computational Geosciences</i> , 2018, 22, 789-814.	2.4	41
22	Understanding linkages between global climate indices and terrestrial water storage changes over Africa using GRACE products. <i>Science of the Total Environment</i> , 2018, 635, 1405-1416.	8.0	72
23	Reconstructing Regional Ionospheric Electron Density: A Combined Spherical Slepian Function and Empirical Orthogonal Function Approach. <i>Surveys in Geophysics</i> , 2018, 39, 289-309.	4.6	26
24	Improving drought simulations within the Murray-Darling Basin by combined calibration/assimilation of GRACE data into the WaterGAP Global Hydrology Model. <i>Remote Sensing of Environment</i> , 2018, 204, 212-228.	11.0	88
25	Efficient basin scale filtering of GRACE satellite products. <i>Remote Sensing of Environment</i> , 2018, 204, 76-93.	11.0	38
26	Nonparametric Data Assimilation Scheme for Land Hydrological Applications. <i>Water Resources Research</i> , 2018, 54, 4946-4964.	4.2	13
27	Understanding the association between climate variability and the Nile's water level fluctuations and water storage changes during 1992â€“2016. <i>Science of the Total Environment</i> , 2018, 645, 1509-1521.	8.0	34
28	Unsupervised ensemble Kalman filtering with an uncertain constraint for land hydrological data assimilation. <i>Journal of Hydrology</i> , 2018, 564, 175-190.	5.4	23
29	Comparison of accelerometer data calibration methods used in thermospheric neutral density estimation. <i>Annales Geophysicae</i> , 2018, 36, 761-779.	1.6	18
30	Evaluating non-tidal atmospheric products by measuring GRACE K-band range rate residuals. <i>Geophysical Journal International</i> , 2018, 215, 1132-1147.	2.4	4
31	Enhancing Civil Engineering Surveying Learning through Workshops. <i>Journal of Surveying Engineering, - ASCE</i> , 2017, 143, 05017001.	1.7	2
32	Ice mass change in Greenland and Antarctica between 1993 and 2013 from satellite gravity measurements. <i>Journal of Geodesy</i> , 2017, 91, 1283-1298.	3.6	29
33	Hydrogeological characterisation of groundwater over Brazil using remotely sensed and model products. <i>Science of the Total Environment</i> , 2017, 599-600, 372-386.	8.0	56
34	Large-Scale Total Water Storage and Water Flux Changes over the Arid and Semiarid Parts of the Middle East from GRACE and Reanalysis Products. <i>Surveys in Geophysics</i> , 2017, 38, 591-615.	4.6	45
35	A two-update ensemble Kalman filter for land hydrological data assimilation with an uncertain constraint. <i>Journal of Hydrology</i> , 2017, 555, 447-462.	5.4	41
36	Accounting for spatial correlation errors in the assimilation of GRACE into hydrological models through localization. <i>Advances in Water Resources</i> , 2017, 108, 99-112.	3.8	38

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37	Assessing sequential data assimilation techniques for integrating GRACE data into a hydrological model. <i>Advances in Water Resources</i> , 2017, 107, 301-316.	3.8	60
38	Changes and variability of precipitation and temperature in the Gangesâ€“Brahmaputraâ€“Meghna River Basin based on global highâ€“resolution reanalyses. <i>International Journal of Climatology</i> , 2017, 37, 2141-2159.	3.5	23
39	Passiveâ€“ocean radial basis function approach to improve temporal gravity recovery from GRACE observations. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6875-6892.	3.4	14
40	Interannual variability of temperature in the UTLS region over Gangesâ€“Brahmaputraâ€“Meghna river basin based on COSMIC GNSS RO data. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 1685-1699.	3.1	5
41	An evaluation of highâ€“resolution gridded precipitation products over Bhutan (1998â€“2012). <i>International Journal of Climatology</i> , 2016, 36, 1067-1087.	3.5	43
42	Does GRACE see the terrestrial water cycle â€œintensifyingâ€?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 733-745.	3.3	87
43	Modeling of present-day atmosphere and ocean non-tidal de-aliasing errors for future gravity mission simulations. <i>Journal of Geodesy</i> , 2016, 90, 423-436.	3.6	52
44	Exploring hydro-meteorological drought patterns over the Greater Horn of Africa (1979â€“2014) using remote sensing and reanalysis products. <i>Advances in Water Resources</i> , 2016, 94, 45-59.	3.8	72
45	Mapping probabilities of extreme continental water storage changes from space gravimetry. <i>Geophysical Research Letters</i> , 2016, 43, 8026-8034.	4.0	34
46	Exploring the influence of precipitation extremes and human water use on total water storage (TWS) changes in the Gangesâ€“Brahmaputraâ€“Meghna River Basin. <i>Water Resources Research</i> , 2016, 52, 2240-2258.	4.2	67
47	Quantifying the impacts of ENSO and IOD on rain gauge and remotely sensed precipitation products over Australia. <i>Remote Sensing of Environment</i> , 2016, 172, 50-66.	11.0	60
48	Uncertainties in remotely sensed precipitation data over Africa. <i>International Journal of Climatology</i> , 2016, 36, 303-323.	3.5	136
49	Over Exploitation of Groundwater in the Centre of Amman Zarqa Basinâ€“Jordan: Evaluation of Well Data and GRACE Satellite Observations. <i>Resources</i> , 2015, 4, 819-830.	3.5	24
50	The updated ESA Earth System Model for future gravity mission simulation studies. <i>Journal of Geodesy</i> , 2015, 89, 505-513.	3.6	70
51	Waveform Retracking for Improving Level Estimations From TOPEX/Poseidon, Jason-1, and Jason-2 Altimetry Observations Over African Lakes. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 2211-2224.	6.3	23
52	Improved gravity anomaly fields from retracked multimission satellite radar altimetry observations over the Persian Gulf and the Caspian Sea. <i>Geophysical Journal International</i> , 2015, 202, 1522-1534.	2.4	15
53	Multiâ€“model and multiâ€“sensor estimations of evapotranspiration over the Volta Basin, West Africa. <i>International Journal of Climatology</i> , 2015, 35, 3132-3145.	3.5	45
54	Separation of large scale water storage patterns over Iran using GRACE, altimetry and hydrological data. <i>Remote Sensing of Environment</i> , 2014, 140, 580-595.	11.0	150

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55	Comparisons of atmospheric mass variations derived from ECMWF reanalysis and operational fields, over 2003–2011. <i>Journal of Geodesy</i> , 2014, 88, 503-514.	3.6	42
56	Satellite radar altimetry waveform retracking over the Caspian Sea. <i>International Journal of Remote Sensing</i> , 2014, 35, 6329-6356.	2.9	23
57	Characterization of Ethiopian mega hydrogeological regimes using GRACE, TRMM and GLDAS datasets. <i>Advances in Water Resources</i> , 2014, 74, 64-78.	3.8	76
58	Water storage changes and climate variability within the Nile Basin between 2002 and 2011. <i>Advances in Water Resources</i> , 2014, 73, 1-15.	3.8	92
59	Improving the recovery of monthly regional water storage using one year simulated observations of two pairs of GRACE-type satellite gravimetry constellation. <i>Journal of Applied Geophysics</i> , 2014, 109, 195-209.	2.1	8
60	Multivariate Prediction of Total Water Storage Changes Over West Africa from Multi-Satellite Data. <i>Surveys in Geophysics</i> , 2014, 35, 913-940.	4.6	72
61	Changes in temperature and precipitation extremes over the Greater Horn of Africa region from 1961 to 2010. <i>International Journal of Climatology</i> , 2014, 34, 1262-1277.	3.5	186
62	Understanding the decline of water storage across the Ramser-Lake Naivasha using satellite-based methods. <i>Advances in Water Resources</i> , 2013, 60, 7-23.	3.8	57
63	Potential impacts of climate and environmental change on the stored water of Lake Victoria Basin and economic implications. <i>Water Resources Research</i> , 2013, 49, 8160-8173.	4.2	72
64	Separation of deterministic signals using independent component analysis (ICA). <i>Studia Geophysica Et Geodaetica</i> , 2013, 57, 17-26.	0.5	44
65	The influence of low frequency sea surface temperature modes on delineated decadal rainfall zones in Eastern Africa region. <i>Advances in Water Resources</i> , 2013, 54, 161-180.	3.8	35
66	A point-wise least squares spectral analysis (LSSA) of the Caspian Sea level fluctuations, using TOPEX/Poseidon and Jason-1 observations. <i>Advances in Space Research</i> , 2013, 51, 858-873.	2.6	23
67	Comparisons of atmospheric data and reduction methods for the analysis of satellite gravimetry observations. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 2382-2396.	3.4	25
68	Independent patterns of water mass anomalies over Australia from satellite data and models. <i>Remote Sensing of Environment</i> , 2012, 124, 427-443.	11.0	79
69	Decadal rainfall variability modes in observed rainfall records over East Africa and their relations to historical sea surface temperature changes. <i>Journal of Hydrology</i> , 2012, 464-465, 140-156.	5.4	50
70	Separation of global time-variable gravity signals into maximally independent components. <i>Journal of Geodesy</i> , 2012, 86, 477-497.	3.6	89
71	Revealing the physics of movement: Comparing the similarity of movement characteristics of different types of moving objects. <i>Computers, Environment and Urban Systems</i> , 2009, 33, 419-434.	7.1	153