

Harald Schuh

List of Publications by Year in descending order

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118
papers

5,831
citations

159585

30
h-index

76900

74
g-index

162
all docs

162
docs citations

162
times ranked

3128
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial and Temporal Distributions of Ionospheric Irregularities Derived from Regional and Global ROTI Maps. Remote Sensing, 2022, 14, 10.	4.0	8
2	Improving the Vertical Modeling of Tropospheric Delay. Geophysical Research Letters, 2022, 49, .	4.0	9
3	Stability analysis of the Iraqi GNSS stations. Journal of Applied Geodesy, 2022, 16, 299-312.	1.1	2
4	Inter-Comparison of UT1-UTC from 24-Hour, Intensives, and VGOS Sessions during CONT17. Sensors, 2022, 22, 2740.	3.8	3
5	Improving VLBI analysis by tropospheric ties in GNSS and VLBI integrated processing. Journal of Geodesy, 2022, 96, 1.	3.6	10
6	Impact of the image alignment over frequency for the VLBI Global Observing System. Astronomy and Astrophysics, 2022, 663, A83.	5.1	5
7	GGOS Bureau of Products and Standards: Description and Promotion of Geodetic Products. International Association of Geodesy Symposia, 2022, , .	0.4	1
8	GLONASS FDMA data for RTK positioning: a five-system analysis. GPS Solutions, 2021, 25, 1.	4.3	20
9	Evidence of the Gaia VLBI position differences being related to radio source structure. Astronomy and Astrophysics, 2021, 647, A189.	5.1	11
10	Performance Evaluation of VTEC GIMs for Regional Applications during Different Solar Activity Periods, Using RING TEC Values. Remote Sensing, 2021, 13, 1470.	4.0	10
11	Imaging VGOS Observations and Investigating Source Structure Effects. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021238.	3.4	7
12	Observable quality assessment of broadband very long baseline interferometry system. Journal of Geodesy, 2021, 95, 1.	3.6	10
13	Alternative Approach for Tsunami Early Warning Indicated by Gravity Wave Effects on Ionosphere. Remote Sensing, 2021, 13, 2150.	4.0	0
14	The Role of Spatial Gradient on Vertical Total Electron Content Extraction From Geodetic Very Long Baseline Interferometry Observation: Case Study CONT08 to CONT17. Space Weather, 2021, 19, e2020SW002633.	3.7	2
15	The effect of function-based and voxel-based tropospheric tomography techniques on the GNSS positioning accuracy. Journal of Geodesy, 2021, 95, 1.	3.6	11
16	GNSS-based water vapor estimation and validation during the MOSAiC expedition. Atmospheric Measurement Techniques, 2021, 14, 5127-5138.	3.1	9
17	Coastal sea-surface wave measurements using software-based GPS reflectometers in Lanyu, Taiwan. GPS Solutions, 2021, 25, 1.	4.3	3
18	A Comparative Study on the Solar Radiation Pressure Modeling in GPS Precise Orbit Determination. Remote Sensing, 2021, 13, 3388.	4.0	4

#	ARTICLE	IF	CITATIONS
19	Operational Multi-GNSS Global Ionosphere Maps at GFZ Derived From Uncombined Code and Phase Observations. <i>Radio Science</i> , 2021, 56, e2021RS007337.	1.6	6
20	Diagnostics of Es Layer Scintillation Observations Using FS3/COSMIC Data: Dependence on Sampling Spatial Scale. <i>Remote Sensing</i> , 2021, 13, 3732.	4.0	3
21	The Potsdam Open Source Radio Interferometry Tool (PORT). <i>Publications of the Astronomical Society of the Pacific</i> , 2021, 133, 104503.	3.1	3
22	Towards Understanding the Interconnection between Celestial Pole Motion and Earth's Magnetic Field Using Space Geodetic Techniques. <i>Sensors</i> , 2021, 21, 7555.	3.8	2
23	Integrated processing of ground- and space-based GPS observations: improving GPS satellite orbits observed with sparse ground networks. <i>Journal of Geodesy</i> , 2020, 94, 1.	3.6	8
24	Occurrence climatology of equatorial plasma bubbles derived using FormoSat-3 COSMIC GPS radio occultation data. <i>Annales Geophysicae</i> , 2020, 38, 611-623.	1.6	20
25	Improving Low Earth Orbit (LEO) Prediction with Accelerometer Data. <i>Remote Sensing</i> , 2020, 12, 1599.	4.0	12
26	Evaluation of VLBI Observations with Sensitivity and Robustness Analyses. <i>Mathematics</i> , 2020, 8, 939.	2.2	1
27	Drift of the Earth's Principal Axes of Inertia from GRACE and Satellite Laser Ranging Data. <i>Remote Sensing</i> , 2020, 12, 314.	4.0	1
28	Automatic Calibration of Process Noise Matrix and Measurement Noise Covariance for Multi-GNSS Precise Point Positioning. <i>Mathematics</i> , 2020, 8, 502.	2.2	7
29	Use of GNSS Tropospheric Products for Climate Monitoring (Working Group 3). , 2020, , 267-402.		7
30	Validating HY-2A CMR precipitable water vapor using ground-based and shipborne GNSS observations. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 4963-4972.	3.1	16
31	Future GNSS Infrastructure for Improved Geodetic Reference Frames. , 2020, , .		3
32	On the impact of local ties on the datum realization of global terrestrial reference frames. <i>Journal of Geodesy</i> , 2019, 93, 655-667.	3.6	16
33	LEO enhanced Global Navigation Satellite System (LeGNSS) for real-time precise positioning services. <i>Advances in Space Research</i> , 2019, 63, 73-93.	2.6	65
34	Precise Onboard Real-Time Orbit Determination with a Low-Cost Single-Frequency GPS/BDS Receiver. <i>Remote Sensing</i> , 2019, 11, 1391.	4.0	8
35	Advanced technologies for satellite navigation and geodesy. <i>Advances in Space Research</i> , 2019, 64, 1256-1273.	2.6	52
36	Correcting surface loading at the observation level: impact on global GNSS and VLBI station networks. <i>Journal of Geodesy</i> , 2019, 93, 2003-2017.	3.6	19

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37	Sea-Ice Concentration Derived From GNSS Reflection Measurements in Fram Strait. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 10350-10361.	6.3	18
38	Structure Effects for 3417 Celestial Reference Frame Radio Sources. Astrophysical Journal, Supplement Series, 2019, 242, 5.	7.7	19
39	Retrieving Precipitable Water Vapor From Shipborne Multi-GNSS Observations. Geophysical Research Letters, 2019, 46, 5000-5008.	4.0	46
40	Evaluating the impact of higher-order ionospheric corrections on multi-GNSS ultra-rapid orbit determination. Journal of Geodesy, 2019, 93, 1347-1365.	3.6	4
41	Characterization of GPS-TEC over African equatorial ionization anomaly (EIA) region during 2009-2016. Advances in Space Research, 2019, 63, 282-301.	2.6	13
42	Perturbations in atmospheric gaseous components over coastal Antarctica detected in GPS signals and its natural origin to volcanic eruption. Polar Science, 2019, 19, 69-76.	1.2	8
43	ICGEM - 15 years of successful collection and distribution of global gravitational models, associated services, and future plans. Earth System Science Data, 2019, 11, 647-674.	9.9	172
44	Three-frequency BDS precise point positioning ambiguity resolution based on raw observables. Journal of Geodesy, 2018, 92, 1357-1369.	3.6	81
45	Long-Term Evaluation of Ocean Tidal Variation Models of Polar Motion and UT1. Pure and Applied Geophysics, 2018, 175, 1611-1629.	1.9	4
46	Editorial note for the Geodesy and Geodynamics journal special issue. Geodesy and Geodynamics, 2018, 9, 183-186.	2.2	1
47	GPS/GLONASS Combined Precise Point Positioning With the Modeling of Highly Stable Receiver Clock in the Application of Monitoring Active Seismic Deformation. Journal of Geophysical Research: Solid Earth, 2018, 123, 4025-4040.	3.4	9
48	PPP Without Troposphere Estimation: Impact Assessment of Regional Versus Global Numerical Weather Models and Delay Parameterization. International Association of Geodesy Symposia, 2018, , 107-118.	0.4	3
49	Global morphology of ionospheric sporadic E layer from the FormoSat-3/COSMIC GPS radio occultation experiment. GPS Solutions, 2018, 22, 1.	4.3	38
50	Estimating Integrated Water Vapor Trends From VLBI, GPS, and Numerical Weather Models: Sensitivity to Tropospheric Parameterization. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6356-6372.	3.3	37
51	Initial Assessment of Precise Point Positioning with LEO Enhanced Global Navigation Satellite Systems (LeGNSS). Remote Sensing, 2018, 10, 984.	4.0	66
52	Real-Time Sensing of Precipitable Water Vapor From BeiDou Observations: Hong Kong and CMONOC Networks. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7897-7909.	3.3	15
53	Temporal changes in atmospheric water content during the December 2004 Sumatra earthquake as estimated from GPS signals and its possible connection to the January 2005 California flash flood. Annals of Geophysics, 2018, 61, .	1.0	1
54	A Global Terrestrial Reference Frame from simulated VLBI and SLR data in view of GGOS. Journal of Geodesy, 2017, 91, 723-733.	3.6	10

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55	Improving BeiDou precise orbit determination using observations of onboard MEO satellite receivers. <i>Journal of Geodesy</i> , 2017, 91, 1447-1460.	3.6	14
56	The Role of GNSS Vertical Velocities to Correct Estimates of Sea Level Rise from Tide Gauge Measurements in Greece. <i>Marine Geodesy</i> , 2017, 40, 297-314.	2.0	13
57	Fast BDS Positioning Convergence Based on the Contribution of GPS Observations. <i>Marine Geodesy</i> , 2017, 40, 404-415.	2.0	1
58	Improving the modeling of the atmospheric delay in the data analysis of the Intensive VLBI sessions and the impact on the UT1 estimates. <i>Journal of Geodesy</i> , 2017, 91, 857-866.	3.6	9
59	Improving BeiDou real-time precise point positioning with numerical weather models. <i>Journal of Geodesy</i> , 2017, 91, 1019-1029.	3.6	53
60	The impacts of source structure on geodetic parameters demonstrated by the radio source 3C371. <i>Journal of Geodesy</i> , 2017, 91, 767-781.	3.6	9
61	On the consistency of the current conventional EOP series and the celestial and terrestrial reference frames. <i>Journal of Geodesy</i> , 2017, 91, 135-149.	3.6	11
62	An Improved Empirical Harmonic Model of the Celestial Intermediate Pole Offsets from a Global VLBI Solution. <i>Astronomical Journal</i> , 2017, 154, 166.	4.7	12
63	Tropospheric delay parameters from numerical weather models for multi-GNSS precise positioning. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5965-5973.	3.1	42
64	GNSS tropospheric gradients with high temporal resolution and their effect on precise positioning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 912-930.	3.3	30
65	THE SOURCE STRUCTURE OF 0642+449 DETECTED FROM THE CONT14 OBSERVATIONS. <i>Astronomical Journal</i> , 2016, 152, 151.	4.7	15
66	Testing a new Free Core Nutation empirical model. <i>Journal of Geodynamics</i> , 2016, 94-95, 59-67.	1.6	20
67	Improving integer ambiguity resolution for GLONASS precise orbit determination. <i>Journal of Geodesy</i> , 2016, 90, 715-726.	3.6	22
68	Multi-technique comparison of atmospheric parameters at the DORIS co-location sites during CONT14. <i>Advances in Space Research</i> , 2016, 58, 2758-2773.	2.6	5
69	Determination of a terrestrial reference frame via Kalman filtering of very long baseline interferometry data. <i>Journal of Geodesy</i> , 2016, 90, 1311-1327.	3.6	9
70	Ray tracing technique for global 3-D modeling of ionospheric electron density using GNSS measurements. <i>Radio Science</i> , 2015, 50, 539-553.	1.6	20
71	Tropospheric delay determination by Kalman filtering VLBI data. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	22
72	Application of Kalman filtering in VLBI data analysis. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	44

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73	Retrieving of atmospheric parameters from multi-GNSS in real time: Validation with water vapor radiometer and numerical weather model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 7189-7204.	3.3	85
74	GPS derived Zenith Total Delay (ZTD) observed at tropical locations in South India during atmospheric storms and depressions. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 125-126, 1-7.	1.6	17
75	Estimating the yaw-attitude of BDS IGSO and MEO satellites. <i>Journal of Geodesy</i> , 2015, 89, 1005-1018.	3.6	54
76	Precise positioning with current multi-constellation Global Navigation Satellite Systems: GPS, GLONASS, Galileo and BeiDou. <i>Scientific Reports</i> , 2015, 5, 8328.	3.3	264
77	Atmospheric modeling for co-located VLBI antennas and twin telescopes. <i>Journal of Geodesy</i> , 2015, 89, 655-665.	3.6	5
78	Accuracy and reliability of multi-GNSS real-time precise positioning: GPS, GLONASS, BeiDou, and Galileo. <i>Journal of Geodesy</i> , 2015, 89, 607-635.	3.6	521
79	Real-time retrieval of precipitable water vapor from GPS and BeiDou observations. <i>Journal of Geodesy</i> , 2015, 89, 843-856.	3.6	73
80	New VLBI2010 scheduling strategies and implications on the terrestrial reference frames. <i>Journal of Geodesy</i> , 2014, 88, 449-461.	3.6	37
81	Tidal Love and Shida numbers estimated by geodetic VLBI. <i>Journal of Geodynamics</i> , 2013, 70, 21-27.	1.6	21
82	A Priori Gradients in the Analysis of Space Geodetic Observations. <i>International Association of Geodesy Symposia</i> , 2013, , 105-109.	0.4	5
83	Free core nutation observed by VLBI. <i>Astronomy and Astrophysics</i> , 2013, 555, A29.	5.1	28
84	New approach for earthquake/tsunami monitoring using dense GPS networks. <i>Scientific Reports</i> , 2013, 3, 2682.	3.3	16
85	Atmospheric Pressure Loading. <i>Springer Atmospheric Sciences</i> , 2013, , 137-157.	0.3	26
86	Ray-traced tropospheric delays in VLBI analysis. <i>Radio Science</i> , 2012, 47, .	1.6	32
87	VLBI: A fascinating technique for geodesy and astrometry. <i>Journal of Geodynamics</i> , 2012, 61, 68-80.	1.6	228
88	The New Vienna VLBI Software VieVS. <i>International Association of Geodesy Symposia</i> , 2012, , 1007-1011.	0.4	58
89	Modelling Very Long Baseline Interferometry (VLBI) observations. <i>Journal of Geodesy and Geoinformation</i> , 2012, 1, 17-26.	0.2	3
90	Monte Carlo simulations of the impact of troposphere, clock and measurement errors on the repeatability of VLBI positions. <i>Journal of Geodesy</i> , 2011, 85, 39-50.	3.6	48

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91	Multi-technique comparison of troposphere zenith delays and gradients during CONT08. Journal of Geodesy, 2011, 85, 395-413.	3.6	74
92	Universal time from VLBI single-baseline observations during CONT08. Journal of Geodesy, 2011, 85, 415-423.	3.6	16
93	Global Ionosphere Maps of VTEC from GNSS, satellite altimetry, and formosat-3/COSMIC data. Journal of Geodesy, 2011, 85, 975-987.	3.6	75
94	High-resolution atmospheric angular momentum functions related to Earth rotation parameters during CONT08. Journal of Geodesy, 2011, 85, 425-433.	3.6	17
95	VLBI-derived troposphere parameters during CONT08. Journal of Geodesy, 2011, 85, 377-393.	3.6	21
96	Asymmetric tropospheric delays from numerical weather models for UT1 determination from VLBI Intensive sessions on the baseline Wettzellâ€“Tsukuba. Journal of Geodesy, 2010, 84, 319-325.	3.6	16
97	Achievements of the Earth orientation parameters prediction comparison campaign. Journal of Geodesy, 2010, 84, 587-596.	3.6	106
98	Earth Rotation Observed by Very Long Baseline Interferometry and Ring Laser. Pure and Applied Geophysics, 2009, 166, 1499-1517.	1.9	23
99	Short-term tidal variations in UT1: compliance between modelling and observation. Proceedings of the International Astronomical Union, 2009, 5, 215-215.	0.0	2
100	Determination of UT1 by VLBI. Proceedings of the International Astronomical Union, 2009, 5, 216-216.	0.0	0
101	Very long baseline interferometry: accuracy limits and relativistic tests. Proceedings of the International Astronomical Union, 2009, 5, 286-290.	0.0	6
102	Using the Global Navigation Satellite System and satellite altimetry for combined Global Ionosphere Maps. Advances in Space Research, 2008, 42, 727-736.	2.6	38
103	Modeling thermal deformation of VLBI antennas with a new temperature model. Journal of Geodesy, 2007, 81, 423-431.	3.6	24
104	Effect of different tropospheric mapping functions on the TRF, CRF and position time-series estimated from VLBI. Journal of Geodesy, 2007, 81, 409-421.	3.6	40
105	Short Note: A global model of pressure and temperature for geodetic applications. Journal of Geodesy, 2007, 81, 679-683.	3.6	530
106	Using VLBI fringe-phase information from geodetic experiments for short-period ionospheric studies. Journal of Geodesy, 2007, 81, 389-401.	3.6	2
107	Troposphere gradients from the ECMWF in VLBI analysis. Journal of Geodesy, 2007, 81, 403-408.	3.6	39
108	Combination of long time-series of troposphere zenith delays observed by VLBI. Journal of Geodesy, 2007, 81, 483-501.	3.6	26

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109	VLBI2010: A Vision for Future Geodetic VLBI. , 2007, , 757-759.		13
110	Climatic signals observed by VLBI. Acta Geodaetica Et Geophysica Hungarica, 2006, 41, 159-170.	0.4	4
111	Troposphere mapping functions for GPS and very long baseline interferometry from European Centre for Medium-Range Weather Forecasts operational analysis data. Journal of Geophysical Research, 2006, 111, .	3.3	794
112	Global Mapping Function (GMF): A new empirical mapping function based on numerical weather model data. Geophysical Research Letters, 2006, 33, .	4.0	1,010
113	Very long baseline interferometry as a tool to probe the ionosphere. Radio Science, 2006, 41, n/a-n/a.	1.6	21
114	Multi-technique comparison of tropospheric zenith delays derived during the CONT02 campaign. Journal of Geodesy, 2006, 79, 613-623.	3.6	67
115	Effects of the 2nd order ionospheric terms on VLBI measurements. Geophysical Research Letters, 2005, 32, .	4.0	33
116	Short Period Variations In Earth Rotation As Seen By VLBI. Surveys in Geophysics, 2000, 21, 499-520.	4.6	14
117	An analysis of a priori and empirical solar radiation pressure models for GPS satellites. Advances in Geosciences, 0, 55, 33-45.	12.0	1
118	Multi-constellation GNSS orbit combination based on MGEX products. Advances in Geosciences, 0, 50, 57-64.	12.0	14