

Penina Axelrad

List of Publications by Year in descending order

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48
papers

1,879
citations

471509

17
h-index

254184

43
g-index

50
all docs

50
docs citations

50
times ranked

1227
citing authors

#	ARTICLE	IF	CITATIONS
1	A low complexity smoothing algorithm for improved GPS point solutions on board LEO spacecraft. Navigation, Journal of the Institute of Navigation, 2021, 68, 185-198.	2.8	2
2	Design of a high-stability heterogeneous clock system for small satellites in LEO. GPS Solutions, 2021, 25, 1.	4.3	4
3	Improved urban navigation with shadow matching and specular matching. Navigation, Journal of the Institute of Navigation, 2020, 67, 547-566.	2.8	2
4	CubeSat Cluster Deployment Track Initiation via a Radar Admissible Region Birth Model. Journal of Guidance, Control, and Dynamics, 2020, 43, 1927-1934.	2.8	4
5	Improved GNSS-R Ocean Surface Altimetry With CYGNSS in the Seas of Indonesia. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6071-6087.	6.3	25
6	Improved Orbit Determination of the CYGNSS Satellites and its Application to GNSS-R Ocean Altimetry. , 2020, , .		0
7	Advanced multipath modeling and validation for GPS onboard the International Space Station. Navigation, Journal of the Institute of Navigation, 2019, 66, 559-575.	2.8	2
8	Towards An Ocean Altimetry Product Using Cygnss. , 2019, , .		0
9	Improved prediction of GPS satellite clock sub-daily variations based on daily repeat. GPS Solutions, 2018, 22, 1.	4.3	13
10	Global Ocean Altimetry With GNSS Reflections From TechDemoSat-1. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4088-4097.	6.3	52
11	Search-Detect-Track Sensor Allocation for Geosynchronous Space Objects. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2788-2808.	4.7	9
12	Sensor Allocation for Tracking Geosynchronous Space Objects. Journal of Guidance, Control, and Dynamics, 2018, 41, 149-163.	2.8	14
13	A Comparison of Waveform Model Re-Tracking Methods Using Data from CYGNSS. , 2018, , .		3
14	Parallel initial orbit determination using angles-only observation pairs. Celestial Mechanics and Dynamical Astronomy, 2018, 130, 1.	1.4	4
15	An Assessment of the Precision and Accuracy of Altimetry Retrievals for a Monterey Bay GNSS-R Experiment. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4660-4668.	4.9	29
16	Influence of ITRS/GCRS implementation for astrodynamics: Coordinate transformations. Advances in Space Research, 2016, 57, 850-866.	2.6	5
17	Measurement-based Birth Model for a Space Object Cardinalized Probability Hypothesis Density Filter. , 2014, , .		10
18	Bandlimited implicit Runge-Kutta integration for Astrodynamics. Celestial Mechanics and Dynamical Astronomy, 2014, 119, 143-168.	1.4	7

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19	Satellite clock bias estimation for iGPS. GPS Solutions, 2013, 17, 381-389.	4.3	13
20	A Study of the Achievable Geosynchronous Angles-Only Orbit Estimation Accuracy. Journal of the Astronautical Sciences, 2011, 58, 275-290.	1.5	5
21	Collective Detection and Direct Positioning Using Multiple GNSS Satellites. Navigation, Journal of the Institute of Navigation, 2011, 58, 305-321.	2.8	30
22	Bistatic Scattering of GPS Signals Off Arctic Sea Ice. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1548-1553.	6.3	59
23	Specialized Coordinate Representation for Dynamic Modeling and Orbit Estimation of Geosynchronous Orbits. Journal of Guidance, Control, and Dynamics, 2010, 33, 1824-1836.	2.8	7
24	Using GPS multipath to measure soil moisture fluctuations: initial results. GPS Solutions, 2008, 12, 173-177.	4.3	213
25	Modeling GPS phase multipath with SNR: Case study from the Salar de Uyuni, Boliva. Journal of Geophysical Research, 2008, 113, .	3.3	82
26	Mars Aerobraking Spacecraft State Estimation by Processing Inertial Measurement Unit Data. Journal of Guidance, Control, and Dynamics, 2008, 31, 1802-1812.	2.8	8
27	Relative Semimajor Axis Uncertainty in High Earth Orbits. Journal of Guidance, Control, and Dynamics, 2007, 30, 1835-1839.	2.8	4
28	Analysis of relative navigation in high earth orbits. Journal of the Astronautical Sciences, 2007, 55, 23-52.	1.5	5
29	A GNSS Code Multipath Model for Semi-Urban, Aircraft, and Ship Environments. Navigation, Journal of the Institute of Navigation, 2007, 54, 293-307.	2.8	12
30	Improving the precision of high-rate GPS. Journal of Geophysical Research, 2007, 112, .	3.3	119
31	Automated Operational Orbit Determination for the Ice Cloud and Land Elevation Satellite Mission. Journal of Spacecraft and Rockets, 2006, 43, 1048-1053.	1.9	3
32	Formation Design in Eccentric Orbits Using Linearized Equations of Relative Motion. Journal of Guidance, Control, and Dynamics, 2006, 29, 146-160.	2.8	59
33	Development of Multipath Error Budgets for JPALS Ground Station Receivers. Navigation, Journal of the Institute of Navigation, 2005, 52, 145-154.	2.8	3
34	Retrieval of Ocean Surface Wind Speed and Wind Direction Using Reflected GPS Signals. Journal of Atmospheric and Oceanic Technology, 2004, 21, 515-526.	1.3	96
35	Initial results of land-reflected GPS bistatic radar measurements in SMEX02. Remote Sensing of Environment, 2004, 92, 507-520.	11.0	159
36	Modified sidereal filtering: Implications for high-rate GPS positioning. Geophysical Research Letters, 2004, 31, .	4.0	247

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37	Orbit Determination for the QuikSCAT Spacecraft. Journal of Spacecraft and Rockets, 2002, 39, 852-858.	1.9	5
38	Carrier-Phase Multipath Corrections for GPS-based Satellite Attitude Determination. Navigation, Journal of the Institute of Navigation, 2001, 48, 76-88.	2.8	17
39	Real-Time, Autonomous, Precise Orbit Determination Using GPS. Navigation, Journal of the Institute of Navigation, 2001, 48, 155-168.	2.8	9
40	GPS Signal Scattering from Sea Surface. Remote Sensing of Environment, 2000, 73, 162-174.	11.0	96
41	GPS Receiver Architecture and Expected Performance for Autonomous Navigation in High Earth Orbits. Navigation, Journal of the Institute of Navigation, 2000, 47, 190-204.	2.8	19
42	Precision Orbit Determination for the Geosat Follow-On Satellites. Journal of Spacecraft and Rockets, 1998, 35, 336-341.	1.9	3
43	A Combined Filter for GPS-Based Attitude and Baseline Estimation. Navigation, Journal of the Institute of Navigation, 1997, 44, 195-213.	2.8	18
44	Attitude Estimation Algorithms for Spinning Satellites Using Global Positioning System Phase Data. Journal of Guidance, Control, and Dynamics, 1997, 20, 164-169.	2.8	21
45	Spacecraft attitude estimation using the Global Positioning System - Methodology and results for RADCAL. Journal of Guidance, Control, and Dynamics, 1996, 19, 1201-1209.	2.8	48
46	Wide Area Differential GPS. Navigation, Journal of the Institute of Navigation, 1991, 38, 123-145.	2.8	57
47	Closed Loop Navigation and Guidance for Gravity Probe B Orbit Insertion. Navigation, Journal of the Institute of Navigation, 1989, 36, 45-61.	2.8	5
48	Autonomous GPS Integrity Monitoring Using the Pseudorange Residual. Navigation, Journal of the Institute of Navigation, 1988, 35, 255-274.	2.8	271