

Penina Axelrad

List of Publications by Year in descending order

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48
papers

1,879
citations

471061

17
h-index

253896

43
g-index

50
all docs

50
docs citations

50
times ranked

1227
citing authors

#	ARTICLE	IF	CITATIONS
1	Autonomous GPS Integrity Monitoring Using the Pseudorange Residual. Navigation, Journal of the Institute of Navigation, 1988, 35, 255-274.	1.7	271
2	Modified sidereal filtering: Implications for high-rate GPS positioning. Geophysical Research Letters, 2004, 31, .	1.5	247
3	Using GPS multipath to measure soil moisture fluctuations: initial results. GPS Solutions, 2008, 12, 173-177.	2.2	213
4	Initial results of land-reflected GPS bistatic radar measurements in SMEX02. Remote Sensing of Environment, 2004, 92, 507-520.	4.6	159
5	Improving the precision of high-rate GPS. Journal of Geophysical Research, 2007, 112, .	3.3	119
6	GPS Signal Scattering from Sea Surface. Remote Sensing of Environment, 2000, 73, 162-174.	4.6	96
7	Retrieval of Ocean Surface Wind Speed and Wind Direction Using Reflected GPS Signals. Journal of Atmospheric and Oceanic Technology, 2004, 21, 515-526.	0.5	96
8	Modeling GPS phase multipath with SNR: Case study from the Salar de Uyuni, Boliva. Journal of Geophysical Research, 2008, 113, .	3.3	82
9	Formation Design in Eccentric Orbits Using Linearized Equations of Relative Motion. Journal of Guidance, Control, and Dynamics, 2006, 29, 146-160.	1.6	59
10	Bistatic Scattering of GPS Signals Off Arctic Sea Ice. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1548-1553.	2.7	59
11	Wide Area Differential GPS. Navigation, Journal of the Institute of Navigation, 1991, 38, 123-145.	1.7	57
12	Global Ocean Altimetry With GNSS Reflections From TechDemoSat-1. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4088-4097.	2.7	52
13	Spacecraft attitude estimation using the Global Positioning System - Methodology and results for RADCAL. Journal of Guidance, Control, and Dynamics, 1996, 19, 1201-1209.	1.6	48
14	Collective Detection and Direct Positioning Using Multiple GNSS Satellites. Navigation, Journal of the Institute of Navigation, 2011, 58, 305-321.	1.7	30
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.	2.3	29
16	Improved GNSS-R Ocean Surface Altimetry With CYGNSS in the Seas of Indonesia. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6071-6087.	2.7	25
17	Attitude Estimation Algorithms for Spinning Satellites Using Global Positioning System Phase Data. Journal of Guidance, Control, and Dynamics, 1997, 20, 164-169.	1.6	21
18	GPS Receiver Architecture and Expected Performance for Autonomous Navigation in High Earth Orbits. Navigation, Journal of the Institute of Navigation, 2000, 47, 190-204.	1.7	19

#	ARTICLE	IF	CITATIONS
19	A Combined Filter for GPS-Based Attitude and Baseline Estimation. Navigation, Journal of the Institute of Navigation, 1997, 44, 195-213.	1.7	18
20	Carrier-Phase Multipath Corrections for GPS-based Satellite Attitude Determination. Navigation, Journal of the Institute of Navigation, 2001, 48, 76-88.	1.7	17
21	Sensor Allocation for Tracking Geosynchronous Space Objects. Journal of Guidance, Control, and Dynamics, 2018, 41, 149-163.	1.6	14
22	Satellite clock bias estimation for iGPS. GPS Solutions, 2013, 17, 381-389.	2.2	13
23	Improved prediction of GPS satellite clock sub-daily variations based on daily repeat. GPS Solutions, 2018, 22, 1.	2.2	13
24	A GNSS Code Multipath Model for Semi-Urban, Aircraft, and Ship Environments. Navigation, Journal of the Institute of Navigation, 2007, 54, 293-307.	1.7	12
25	Measurement-based Birth Model for a Space Object Cardinalized Probability Hypothesis Density Filter. , 2014, , .		10
26	Real-Time, Autonomous, Precise Orbit Determination Using GPS. Navigation, Journal of the Institute of Navigation, 2001, 48, 155-168.	1.7	9
27	Search-Detect-Track Sensor Allocation for Geosynchronous Space Objects. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2788-2808.	2.6	9
28	Mars Aerobraking Spacecraft State Estimation by Processing Inertial Measurement Unit Data. Journal of Guidance, Control, and Dynamics, 2008, 31, 1802-1812.	1.6	8
29	Specialized Coordinate Representation for Dynamic Modeling and Orbit Estimation of Geosynchronous Orbits. Journal of Guidance, Control, and Dynamics, 2010, 33, 1824-1836.	1.6	7
30	Bandlimited implicit Runge-Kutta integration for Astrodynamics. Celestial Mechanics and Dynamical Astronomy, 2014, 119, 143-168.	0.5	7
31	Closed Loop Navigation and Guidance for Gravity Probe B Orbit Insertion. Navigation, Journal of the Institute of Navigation, 1989, 36, 45-61.	1.7	5
32	Orbit Determination for the QuikSCAT Spacecraft. Journal of Spacecraft and Rockets, 2002, 39, 852-858.	1.3	5
33	Analysis of relative navigation in high earth orbits. Journal of the Astronautical Sciences, 2007, 55, 23-52.	0.8	5
34	A Study of the Achievable Geosynchronous Angles-Only Orbit Estimation Accuracy. Journal of the Astronautical Sciences, 2011, 58, 275-290.	0.8	5
35	Influence of ITRS/GCRS implementation for astrodynamics: Coordinate transformations. Advances in Space Research, 2016, 57, 850-866.	1.2	5
36	Relative Semimajor Axis Uncertainty in High Earth Orbits. Journal of Guidance, Control, and Dynamics, 2007, 30, 1835-1839.	1.6	4

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37	Parallel initial orbit determination using angles-only observation pairs. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2018, 130, 1.	0.5	4
38	CubeSat Cluster Deployment Track Initiation via a Radar Admissible Region Birth Model. <i>Journal of Guidance, Control, and Dynamics</i> , 2020, 43, 1927-1934.	1.6	4
39	Design of a high-stability heterogeneous clock system for small satellites in LEO. <i>GPS Solutions</i> , 2021, 25, 1.	2.2	4
40	Precision Orbit Determination for the Geosat Follow-On Satellites. <i>Journal of Spacecraft and Rockets</i> , 1998, 35, 336-341.	1.3	3
41	Development of Multipath Error Budgets for JPALS Ground Station Receivers. <i>Navigation, Journal of the Institute of Navigation</i> , 2005, 52, 145-154.	1.7	3
42	Automated Operational Orbit Determination for the Ice Cloud and Land Elevation Satellite Mission. <i>Journal of Spacecraft and Rockets</i> , 2006, 43, 1048-1053.	1.3	3
43	A Comparison of Waveform Model Re-Tracking Methods Using Data from CYGNSS. , 2018, , .		3
44	Advanced multipath modeling and validation for GPS onboard the International Space Station. <i>Navigation, Journal of the Institute of Navigation</i> , 2019, 66, 559-575.	1.7	2
45	Improved urban navigation with shadow matching and specular matching. <i>Navigation, Journal of the Institute of Navigation</i> , 2020, 67, 547-566.	1.7	2
46	A low complexity smoothing algorithm for improved GPS point solutions on board LEO spacecraft. <i>Navigation, Journal of the Institute of Navigation</i> , 2021, 68, 185-198.	1.7	2
47	Towards An Ocean Altimetry Product Using Cygnss. , 2019, , .		0
48	Improved Orbit Determination of the CYGNSS Satellites and its Application to GNSS-R Ocean Altimetry. , 2020, , .		0