Leonardo Carrer

List of Publications by Year
in descending order

35 papers	562 citations	623188 14 h-index	642321 23 g-index
35 all docs	35 docs citations	35 times ranked	521 citing authors

#	Article	IF	Citations
1	A Novel Approach to the Detection and Imaging of Candidate Martian Subglacial Water Bodies by Radar Sounder Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	1
2	An Unsupervised Fuzzy System for the Automatic Detection of Candidate Lava Tubes in Radar Sounder Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	2.7	2
3	Conditioning Jovian Burst Signals for Passive Sounding Applications. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	3
4	An Approach to the Assessment of Detectability of Subsurface Targets in Polar Ice From Satellite Radar Sounders. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-21.	2.7	4
5	Analysis of Earth's Ionosphere Effects on Englacial Layering Detectability in Spaceborne Radar Sounders Data. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
6	Analysis of Temporal and Structural Characteristics of Jovian Radio Emissions for Passive Radar Sounding of Jupiter's Icy Moons. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3857-3874.	2.7	4
7	Martian roughness analogues of Europan terrains for radar sounder investigations. Icarus, 2021, 358, 114197.	1.1	3
8	Mars Surface Imaging by Exploiting Off-Nadir Radar Sounding Data. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2951-2961.	2.7	6
9	An Approach to the Generation and Analysis of Databases of Simulated Radar Sounder Data for Performance Prediction and Target Interpretation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8269-8287.	2.7	6
10	An Unsupervised Deep Learning Method for Subsurface Target Detection in Radar Sounder Data. , 2021, , .		4
11	STRATUS: A new mission concept for monitoring the subsurface of polar and arid regions. , 2021, , .		9
12	Automatic Pleural Line Extraction and COVID-19 Scoring From Lung Ultrasound Data. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2207-2217.	1.7	61
13	A Coherent Method for Simulating Active and Passive Radar Sounding of the Jovian Icy Moons. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2250-2265.	2.7	12
14	Distributed Radar Sounder: A Novel Concept for Subsurface Investigations Using Sensors in Formation Flight. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9791-9809.	2.7	20
15	An Approach to the Simulation of Radar Sounder Radargrams Based on Geological Analogs. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5266-5284.	2.7	6
16	Analysis of Subsurface Hypotheses through Simulation of Rime Radargrams Based on Available Analogous Data. , 2019, , .		0
17	An Automatic Method for Subglacial Lake Detection in Ice Sheet Radar Sounder Data. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3252-3270.	2.7	15
18	An automatic approach to map refreezing ice in radar sounder data. , 2019, , .		9

#	Article	IF	Citations
19	A multi-frequency radar sounder for lava tubes detection on the Moon: Design, performance assessment and simulations. Planetary and Space Science, 2018, 152, 1-17.	0.9	21
20	An Approach to Lava Tube Detection in Radar Sounder Data of the Moon. , 2018, , .		3
21	Noise Character Constraints on Passive Radio Sounding of Jupiter's Icy Moons Using Jovian Decametric Radiation. , 2018, , .		1
22	Distributed Radar Sounder System: a Novel Approach to Across-Track Resolution Enhancement and Clutter Reduction. , 2018, , .		2
23	A New Technique for Simulating Radar Echoes from Layered Subsurface Targets. , 2018, , .		0
24	A Coherent Multilayer Simulator of Radargrams Acquired by Radar Sounder Instruments. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 7388-7404.	2.7	30
25	Compensating Earth Ionosphere Phase Distortion in Spaceborne VHF Radar Sounders for Subsurface Investigations. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1672-1676.	1.4	7
26	Radar probing of Jovian icy moons: Understanding subsurface water and structure detectability in the JUICE and Europa missions. Icarus, 2017, 285, 237-251.	1.1	54
27	Automatic Enhancement and Detection of Layering in Radar Sounder Data Based on a Local Scale Hidden Markov Model and the Viterbi Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 962-977.	2.7	26
28	Solving for ambiguities in radar geophysical exploration of planetary bodies by mimicking bats echolocation. Nature Communications, 2017, 8, 2248.	5.8	22
29	Assessing the potential for passive radio sounding of Europa and Ganymede with RIME and REASON. Planetary and Space Science, 2016, 134, 52-60.	0.9	36
30	A System for the Automatic Classification of Ice Sheet Subsurface Targets in Radar Sounder Data. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3260-3277.	2.7	32
31	Rayleigh-Rice Mixture Parameter Estimation via EM Algorithm for Change Detection in Multispectral Images. IEEE Transactions on Image Processing, 2015, 24, 5004-5016.	6.0	80
32	A Model-Based Technique for the Automatic Detection of Earth Continental Ice Subsurface Targets in Radar Sounder Data. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1911-1915.	1.4	6
33	Automatic Extraction and Analysis of Ice Layering in Radar Sounder Data. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1622-1634.	2.7	28
34	A Novel Technique for the Automatic Detection of Surface Clutter Returns in Radar Sounder Data. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3037-3055.	2.7	17
35	Analysis of Radar Sounder Signals for the Automatic Detection and Characterization of Subsurface Features. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 4333-4348.	2.7	31