

Stephen Hobbs

List of Publications by Year in descending order

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43
papers

745
citations

623734

14
h-index

552781

26
g-index

45
all docs

45
docs citations

45
times ranked

635
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of long-term exposure to the low-earth orbit environment on drag augmentation systems. Acta Astronautica, 2022, 195, 540-546.	3.2	2
2	Research progress on geosynchronous synthetic aperture radar. Fundamental Research, 2021, 1, 346-363.	3.3	15
3	Coherence-Based Geosynchronous SAR Tomography Employing Formation Flying: System Design and Performance Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7165-7179.	6.3	9
4	Drag augmentation systems for space debris mitigation. Acta Astronautica, 2021, 188, 278-288.	3.2	6
5	What might sustainability of the GEO region look like?. , 2021, , .		0
6	Meteorological OSSEs for New Zenith Total Delay Observations: Impact Assessment for the Hydroterra Geosynchronous Satellite on the October 2019 Genoa Event. Remote Sensing, 2020, 12, 3787.	4.0	6
7	Physics-Based Clutter Model For Geosynchronous Synthetic Aperture Radar. , 2020, , .		0
8	Gâ€CLASS: geosynchronous radar for water cycle science â€ orbit selection and system design. Journal of Engineering, 2019, 2019, 7534-7537.	1.1	8
9	Feasibility of Passive Bistatic Geosynchronous Radar Using Comsat Transmissions. , 2018, , .		2
10	Geosynchronous Continental Land-Atmosphere Sensing System (G-Class): Persistent Radar Imaging for Earth Science. , 2018, , .		7
11	Laplace plane and low inclination geosynchronous radar mission design. Science China Information Sciences, 2017, 60, 1.	4.3	23
12	Joint Amplitude-Phase Compensation for Ionospheric Scintillation in GEO SAR Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3454-3465.	6.3	27
13	Geostare system performance assessment methodology. , 2016, , .		3
14	Seasonal variation of coherence in SAR interferograms in Kiruna, Northern Sweden. International Journal of Remote Sensing, 2016, 37, 370-387.	2.9	8
15	Descending Sun-Synchronous Orbits with Aerodynamic Inclination Correction. Journal of Guidance, Control, and Dynamics, 2015, 38, 831-842.	2.8	11
16	System Design for Geosynchronous Synthetic Aperture Radar Missions. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7750-7763.	6.3	105
17	Potential atmospheric and terrestrial applications of a geosynchronous radar. , 2014, , .		13
18	GeoSTARe initial mission design. , 2014, , .		13

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19	Hazardous odor markers from sewage wastewater: A step towards simultaneous assessment, dearomatization and removal. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1549-1557.	5.3	12
20	Roughness measurements over an agricultural soil surface with Structure from Motion. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 96, 210-223.	11.1	42
21	Source areas for a passively diffusing methane gas from South Asian paddy fields using the Flux Footprint Model. Atmospheric Research, 2012, 104-105, 154-163.	4.1	1
22	Research on compensation of motion, Earth curvature and tropospheric delay in GEOSAR. Acta Astronautica, 2011, 68, 2005-2011.	3.2	13
23	Disposal orbits for GEO spacecraft: A method for evaluating the orbit height distributions resulting from implementing IADC guidelines. Advances in Space Research, 2010, 45, 1042-1049.	2.6	4
24	Radar Imaging From Geosynchronous Orbit: Temporal Decorrelation Aspects. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2924-2929.	6.3	80
25	Guidance and Control system design for Lunar Descent and Landing. , 2010, , .		3
26	Mars Magnus Aerobot Preliminary Design. , 2010, , .		0
27	Database of individual wheat plant motion in wind: Application to radar imaging of vegetation. Agricultural and Forest Meteorology, 2008, 148, 1860-1868.	4.8	3
28	Videogrammetry: A practical method for measuring vegetation motion in wind demonstrated on wheat. Agricultural and Forest Meteorology, 2007, 143, 242-251.	4.8	7
29	Geosynchronous synthetic aperture radar: Concept design, properties and possible applications. Acta Astronautica, 2006, 59, 149-156.	3.2	83
30	Insect ventral radar cross-section polarisation dependence measurements for radar entomology. IET Radar, Sonar & Navigation, 2006, 153, 502.	2.1	18
31	Fast freeze?. Weather, 2004, 59, 235-235.	0.7	0
32	Community modelling: a tool for correlating estimates of exposure with perception of odour from municipal solid waste (MSW) landfills. Journal of Environmental Management, 2003, 68, 133-140.	7.8	28
33	Dispersion of odour: a case study with a municipal solid waste landfill site in North London, United Kingdom. Journal of Environmental Management, 2003, 68, 153-160.	7.8	52
34	Landfill odour: assessment of emissions by the flux footprint method. Environmental Modelling and Software, 2003, 18, 155-163.	4.5	24
35	Odour from municipal solid waste (MSW) landfills. Environment International, 2002, 27, 655-662.	10.0	36
36	Surface layer profiles of air temperature and humidity measured from unmanned aircraft. Agronomy for Sustainable Development, 2002, 22, 635-640.	0.8	17

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37	Comparison of dispersion models for assessing odour from municipal solid wastes. Waste Management and Research, 2000, 18, 420-428.	3.9	4
38	Developments in Airborne Entomological Radar. Journal of Atmospheric and Oceanic Technology, 1996, 13, 58-61.	1.3	8
39	Woodland area estimation by spectral mixing: applying a goodness-of-fit solution method. International Journal of Remote Sensing, 1996, 17, 291-301.	2.9	17
40	Calibration and performance evaluation of a lightweight propellor anemometer for micrometeorological research. Boundary-Layer Meteorology, 1994, 68, 259-273.	2.3	11
41	An optical method for automatic classification and recording of a suction trap catch. Bulletin of Entomological Research, 1993, 83, 47-51.	1.0	2
42	A radar signal processor for biological applications. Measurement Science and Technology, 1991, 2, 415-418.	2.6	3
43	An airborne radar technique for studying insect migration. Bulletin of Entomological Research, 1989, 79, 693-704.	1.0	19