

Robert Lehmensiek

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

296
citations

1163117

8
h-index

1125743

13
g-index

43
all docs

43
docs citations

43
times ranked

128
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Level Approximations for Fast and Accurate Antenna Noise Temperature Calculation of Dual-Reflector Antennas. IEEE Transactions on Antennas and Propagation, 2022, 70, 4784-4793.	5.1	3
2	First Order Design of a Quadruple-Ridged Flared Horn for the ngVLA Band 1. , 2022, , .		1
3	An Optimal 18 m Shaped Offset Gregorian Reflector for the ngVLA Radio Telescope. IEEE Transactions on Antennas and Propagation, 2021, 69, 8282-8290.	5.1	7
4	MID-Radio Telescope, Single Pixel Feed Packages for the Square Kilometer Array: An Overview. IEEE Journal of Microwaves, 2021, 1, 428-437.	6.5	9
5	Investigations of Quadruple-Ridge Flared Horn Performance for ngVLA Band 2. , 2020, , .		2
6	A steerable dielectric resonator antenna array with isoflux radiation pattern. Microwave and Optical Technology Letters, 2019, 61, 2690-2697.	1.4	1
7	Measurements of the SKA Band 2 radio astronomy receiver. , 2019, , .		3
8	On the performance of the SKA mid-frequency array's reflector system and its feeds. , 2019, , .		2
9	Noise Temperature Approximations for Offset Gregorian Reflector Systems. IEICE Transactions on Communications, 2018, E101.B, 332-339.	0.7	3
10	Effects of Diffraction and Feed Pattern Variation in Shaped Offset Gregorian Reflectors. IEICE Transactions on Communications, 2018, E101.B, 316-323.	0.7	0
11	Design of a wideband circularly polarized $2\tilde{A}-2$ array with shorted annular patches at X-band on a CubeSat. , 2017, , .		3
12	Aperture efficiency performance limits of the SKA reflector system. , 2017, , .		0
13	An innovative, highly sensitive receiver system for the Square Kilometre Array Mid Radio Telescope. Proceedings of SPIE, 2016, , .	0.8	1
14	Modeling the effect of a large communication mast in front of a reflector antenna system. , 2016, , .		0
15	A design methodology of the wideband orthogonal mode transducer for the SKA Band 2 feed. , 2016, , .		2
16	A beam steerable back-to-back Yagi-Uda dielectric resonator antenna array. , 2016, , .		3
17	Deriving an optimum shaped reflector system for the SKA single pixel feeds. , 2015, , .		0
18	Rapid Calculation of Antenna Noise Temperature in Offset Gregorian Reflector Systems. IEEE Transactions on Antennas and Propagation, 2015, 63, 1564-1571.	5.1	23

#	ARTICLE	IF	CITATIONS
19	Deriving an Optimum Mapping Function for the SKA-Shaped Offset Gregorian Reflectors. IEEE Transactions on Antennas and Propagation, 2015, 63, 4658-4666.	5.1	27
20	Optimization of Log-Periodic Dipole Array Antennas for Wideband Omnidirectional Radiation. IEEE Transactions on Antennas and Propagation, 2015, 63, 3714-3718.	5.1	25
21	The effects of a triple-junction solar cell on a dielectric resonator antenna. , 2014, , .		1
22	The design of the MeerKAT UHF band feed. , 2014, , .		9
23	Minimizing the MeerKAT system noise temperature. , 2014, , .		9
24	Sensitivity performance of the SKA offset Gregorian reflector candidates with ideal feeds. , 2014, , .		9
25	Steerable back-to-back Yagi-Uda dipole array. , 2014, , .		2
26	Sensitivity performance of several mappings in shaped offset Gregorian reflectors. , 2014, , .		9
27	Dual reflector shaping for realistic frequency dependent feed patterns with specific secondary field pattern targets. , 2014, , .		2
28	On reflector feeds with unidirectional axially symmetric radiation patterns: Their cross-polarization performance and efficiencies. IEEE Antennas and Propagation Magazine, 2014, 56, 39-61.	1.4	2
29	Sub-reflector extensions in shaped dual reflector systems. , 2014, , .		5
30	Radiation performance evaluation and improvement of a pair of dipoles over a ground plane. , 2013, , .		0
31	Modeling of the Radiation Pattern of a Pair of Thin Circular-Arc Dipoles Over an Infinite Ground Plane. IEEE Transactions on Antennas and Propagation, 2013, 61, 4375-4378.	5.1	1
32	The synthesis and optimization of a diplexer for the multi-purpose, multi-frequency shuttlecock antenna. , 2012, , .		0
33	Sub-reflector extensions for reduced noise temperature in low-side sub-reflector offset Gregorian systems. , 2012, , .		16
34	The design of the MeerKAT dish optics. , 2012, , .		23
35	Sub-reflector extension shapes for reduced far-out side-lobes in offset Gregorian antennas. , 2012, , .		0
36	Using the physical structure of a passive aerodynamic attitude-stabilization system as a multi-frequency antenna on nano-satellites. IEEE Antennas and Propagation Magazine, 2012, 54, 39-49.	1.4	3

#	ARTICLE	IF	CITATIONS
37	Wide flare angle axially corrugated conical horn design for a classical offset dual-reflector antenna. , 2012, , .		17
38	Circularly polarized circular microstrip patch antenna loaded with four shorting posts for nanosatellite applications. Microwave and Optical Technology Letters, 2012, 54, 8-11.	1.4	8
39	L-Band Feed Horn and Orthogonal Mode Transducer for the KAT-7 Radio Telescope. IEEE Transactions on Antennas and Propagation, 2011, 59, 1894-1901.	5.1	16
40	On the design of the feed horns for the karoo array telescope dish antennas. , 2007, , .		1
41	Adaptive sampling applied to multivariate, multiple output rational interpolation models with application to microwave circuits. International Journal of RF and Microwave Computer-Aided Engineering, 2002, 12, 332-340.	1.2	28
42	An efficient adaptive frequency sampling algorithm for model-based parameter estimation as applied to aggressive space mapping. Microwave and Optical Technology Letters, 2000, 24, 71-78.	1.4	16
43	A compact, high-power, low-loss,L-band coaxial 18-way power divider/combiner. Microwave and Optical Technology Letters, 1997, 16, 241-243.	1.4	4