Kang Liu

List of Publications by Year
in descending order

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45 papers	1,251 citations	430874 18 h-index	434195 31 g-index
45 all docs	45 docs citations	45 times ranked	636 citing authors

#	Article	IF	Citations
1	Orbital-Angular-Momentum-Based Electromagnetic Vortex Imaging. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 711-714.	4.0	247
2	Generation of OAM Beams Using Phased Array in the Microwave Band. IEEE Transactions on Antennas and Propagation, 2016, 64, 3850-3857.	5.1	192
3	Super-resolution radar imaging based on experimental OAM beams. Applied Physics Letters, 2017, 110, .	3.3	138
4	Generation of Orbital Angular Momentum Beams for Electromagnetic Vortex Imaging. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1873-1876.	4.0	65
5	Microwave-Sensing Technology Using Orbital Angular Momentum: Overview of Its Advantages. IEEE Vehicular Technology Magazine, 2019, 14, 112-118.	3.4	45
6	Study on the theory and method of vortexâ€electromagneticâ€waveâ€based radar imaging. IET Microwaves, Antennas and Propagation, 2016, 10, 961-968.	1.4	43
7	Analysis of Quantum Radar Cross Section and Its Influence on Target Detection Performance. IEEE Photonics Technology Letters, 2014, 26, 1146-1149.	2.5	41
8	High-Resolution Electromagnetic Vortex Imaging Based on Sparse Bayesian Learning. IEEE Sensors Journal, 2017, 17, 6918-6927.	4.7	38
9	Passive OAM-Based Radar Imaging With Single-In-Multiple-Out Mode. IEEE Microwave and Wireless Components Letters, 2018, 28, 840-842.	3.2	38
10	Electromagnetic Vortex Enhanced Imaging Using Fractional OAM Beams. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 948-952.	4.0	36
11	Three-Dimensional Target Imaging Based on Vortex Stripmap SAR. IEEE Sensors Journal, 2019, 19, 1338-1345.	4.7	34
12	Microwave Vortex Imaging Based on Dual Coupled OAM Beams. IEEE Sensors Journal, 2020, 20, 806-815.	4.7	32
13	Vortex SAR Imaging Method Based on OAM Beams Design. IEEE Sensors Journal, 2019, 19, 11873-11879.	4.7	29
14	Microwave imaging of spinning object using orbital angular momentum. Journal of Applied Physics, 2017, 122, .	2.5	28
15	Sidelobe Suppression and Beam Collimation in the Generation of Vortex Electromagnetic Waves for Radar Imaging. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1289-1292.	4.0	24
16	Backward Scattering of Electrically Large Standard Objects Illuminated by OAM Beams. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1167-1171.	4.0	21
17	Target scattering characteristics for OAM-based radar. AIP Advances, 2018, 8, .	1.3	20
18	Radiation pattern synthesis for the generation of vortex electromagnetic wave. IET Microwaves, Antennas and Propagation, 2017, 11, 685-694.	1.4	19

#	Article	IF	Citations
19	OAM-Based Multitarget Detection: From Theory to Experiment. IEEE Microwave and Wireless Components Letters, 2017, 27, 760-762.	3.2	19
20	Orbital-Angular-Momentum-Based ISAR Imaging at Terahertz Frequencies. IEEE Sensors Journal, 2018, 18, 9230-9235.	4.7	19
21	3-D Object Imaging Method With Electromagnetic Vortex. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	19
22	Detection of Rotational Object in Arbitrary Position Using Vortex Electromagnetic Waves. IEEE Sensors Journal, 2021, 21, 4989-4994.	4.7	17
23	A Side-Lobe Suppression Method Based on Coherence Factor for Terahertz Array Imaging. IEEE Access, 2018, 6, 5584-5588.	4.2	15
24	Computational imaging with low-order OAM beams at microwave frequencies. Scientific Reports, 2020, 10, 11641.	3.3	12
25	An Effective Nonlinear Phase Compensation Method for FMCW Terahertz Radar. IEEE Photonics Technology Letters, 2016, 28, 1684-1687.	2.5	9
26	A Fast Terahertz Imaging Method Using Sparse Rotating Array. Sensors, 2017, 17, 2209.	3.8	8
27	Detection of Uniformly Accelerated Spinning Target Based on OAM Beams. , 2018, , .		7
28	Target Detection Method Using Heterodyne Single-Photon Radar at Terahertz Frequencies. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	6
29	Off-Grid Microwave Coincidence Imaging Based on Directional Grid Fission. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2497-2501.	4.0	6
30	Reweighted-Dynamic-Grid-Based Microwave Coincidence Imaging With Grid Mismatch. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	6.3	5
31	A fast radar coincidence imaging approach for sparse target. , 2017, , .		3
32	A random phase compensation method for terahertz radar. , 2016, , .		2
33	A method for radar coincidence imaging with model errors. , 2017, , .		2
34	Direct-detection Single-photon Radar at Terahertz Frequencies. , 2021, , .		2
35	Scattering Characteristics of Vortex Electromagnetic Waves by a Metal Plate. , 2020, , .		2
36	Coherent-Detecting and Incoherent-Modulating Microwave Coincidence Imaging With Off-Grid Errors. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	2

#	Article	IF	Citations
37	Generation of OAM beams with array error contributions. , 2016, , .		1
38	Design method of highâ€efficiency sparse array for ultraâ€wideband radar. Electronics Letters, 2016, 52, 225-226.	1.0	1
39	Research on imaging of precession targets based on range-instantaneous Doppler in the terahertz band. , 2017, , .		1
40	Spinning target detection using OAM-based radar. , 2017, , .		1
41	OAM-generating method based on concentric-ring array using planar antenna. , 2017, , .		1
42	OAM-based Imaging with Cylinder-shaped Arrays. , 2021, , .		1
43	Radiation pattern control and synthesis for the generation of OAM-beams. , 2016, , .		0
44	Generation of OAM-carrying beams with different array configurations. , 2016, , .		0
45	Study on the unusual features of OAM beams and vortex electromagnetic fields. , 2017, , .		0