

# Benjamin Fuchs

## List of Publications by Year in descending order

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31  
papers

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citations

686830

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676716

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g-index

31  
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31  
docs citations

31  
times ranked

808  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Sparse Arrays With Focused or Shaped Beampattern via Sequential Convex Optimizations. IEEE Transactions on Antennas and Propagation, 2012, 60, 3499-3503.	3.1	273
2	Application of Convex Relaxation to Array Synthesis Problems. IEEE Transactions on Antennas and Propagation, 2014, 62, 634-640.	3.1	157
3	The Effect of Insulating Layers on the Performance of Implanted Antennas. IEEE Transactions on Antennas and Propagation, 2011, 59, 21-31.	3.1	115
4	Fast Antenna Array Diagnosis from a Small Number of Far-Field Measurements. IEEE Transactions on Antennas and Propagation, 2016, 64, 2227-2235.	3.1	83
5	Comparative Design and Analysis of Luneburg and Half Maxwell Fish-Eye Lens Antennas. IEEE Transactions on Antennas and Propagation, 2008, 56, 3058-3062.	3.1	56
6	Array Pattern Synthesis With Excitation Control via Norm Minimization. IEEE Transactions on Antennas and Propagation, 2016, 64, 4228-4234.	3.1	51
7	Synthesis of Uniform Amplitude Focused Beam Arrays. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1178-1181.	2.4	45
8	Fast Antenna Far-Field Characterization via Sparse Spherical Harmonic Expansion. IEEE Transactions on Antennas and Propagation, 2017, 65, 5503-5510.	3.1	35
9	Off-Axis Performances of Half Maxwell Fish-Eye Lens Antennas at 77 GHz. IEEE Transactions on Antennas and Propagation, 2007, 55, 479-482.	3.1	27
10	Scattering of Spherically and Hemispherically Stratified Lenses Fed by Any Real Source. IEEE Transactions on Antennas and Propagation, 2008, 56, 450-460.	3.1	26
11	Phaseless Near-Field Antenna Measurements From Two Surface Scans " Numerical and Experimental Investigations. IEEE Transactions on Antennas and Propagation, 2020, 68, 2315-2322.	3.1	22
12	Computational passive imaging of thermal sources with a leaky chaotic cavity. Applied Physics Letters, 2017, 111, .	1.5	16
13	Spherical lens antenna designs with particle swarm optimization. Microwave and Optical Technology Letters, 2010, 52, 1655-1659.	0.9	14
14	On the Interpolation of Electromagnetic Near Field Without Prior Knowledge of the Radiating Source. IEEE Transactions on Antennas and Propagation, 2017, 65, 3568-3574.	3.1	13
15	Reduced Order Models for Fast Antenna Characterization. IEEE Transactions on Antennas and Propagation, 2019, 67, 5673-5677.	3.1	10
16	On the Application of Sparse Spherical Harmonic Expansion for Fast Antenna Far-Field Measurements. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 746-750.	2.4	7
17	Antenna Characterization From a Small Number of Far-Field Measurements via Reduced-Order Models. IEEE Transactions on Antennas and Propagation, 2022, 70, 2422-2430.	3.1	4
18	Spherical Phaseless Antenna Measurements Experimental Validation of a Two-Antenna-Positions Procedure. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 813-817.	2.4	4

#	ARTICLE	IF	CITATIONS
19	Fast Antenna Characterization Improvement by Pattern Rotation. IEEE Transactions on Antennas and Propagation, 2021, 69, 2952-2957.	3.1	3
20	Reconfigurable Antenna Array With Reduced Power Consumptionâ€™â€™Synthesis Methods and Experimental Validations in <i>S</i>-Band. IEEE Transactions on Antennas and Propagation, 2021, 69, 2023-2030.	3.1	3
21	Some Contributions for Antenna 3D Far Field Characterization at Terahertz. Sensors, 2021, 21, 1438.	2.1	3
22	On the Antenna Position to Improve the Radiation Pattern Characterization. IEEE Transactions on Antennas and Propagation, 2021, 69, 5335-5344.	3.1	3
23	Circularly polarized multi-beam lens antenna system. Comparison between 2 polarizers. , 2012, , .		1
24	Fast antenna testing via regularization procedures based on compressive sensing. , 2017, , .		1
25	Scattering of stratified lenses illuminated by any real source. , 2007, , .		0
26	Sparse array synthesis via sequential convex optimizations: Convened session &#x2014; &#x201C;Non-uniform array antennas&#x201D;. , 2012, , .		0
27	Synthesis of uniform amplitude arrays. , 2012, , .		0
28	An investigation on an interference filtering technique for array diagnosis using sparsity. , 2017, , .		0
29	On the use of Convex Optimization for Array Synthesis Problems. , 2019, , .		0
30	On the Antenna Positioning for a Faster and Better Radiation Pattern Characterization. , 2021, , .		0
31	Reduced-Order Model for Antenna Pattern Characterization from a Small Number of Samples. , 2021, , .		0