

# Ryan A Bahr

## List of Publications by Year in descending order

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33  
papers

650  
citations

1307594

7  
h-index

1474206

9  
g-index

34  
all docs

34  
docs citations

34  
times ranked

710  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Solar and Electromagnetic Energy Harvesting System With a 3-D Printed Package for Energy Efficient Internet-of-Things Wireless Sensors. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1831-1842.	4.6	140
2	Infill-Dependent 3-D-Printed Material Based on NinjaFlex Filament for Antenna Applications. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1506-1509.	4.0	115
3	Advances in Wirelessly Powered Backscatter Communications: From Antenna/RF Circuitry Design to Printed Flexible Electronics. Proceedings of the IEEE, 2022, 110, 171-192.	21.3	41
4	Exploring 3-D Printing for New Applications: Novel Inkjet- and 3-D-Printed Millimeter-Wave Components, Interconnects, and Systems. IEEE Microwave Magazine, 2018, 19, 57-66.	0.8	37
5	E-band characterization of 3D-printed dielectrics for fully-printed millimeter-wave wireless system packaging. , 2017, , .		32
6	RF characterization of 3D printed flexible materials - NinjaFlex Filaments. , 2015, , .		30
7	Additively Manufactured mm-Wave Multichip Modules With Fully Printed "Smart" Encapsulation Structures. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2716-2724.	4.6	30
8	Millimeter-wave ink-jet printed RF energy harvester for next generation flexible electronics. , 2017, , .		29
9	Nanotechnology-Empowered Flexible Printed Wireless Electronics: A Review of Various Applications of Printed Materials. IEEE Nanotechnology Magazine, 2019, 13, 18-29.	1.3	19
10	Novel 3D-/Inkjet-Printed Flexible On-package Antennas, Packaging Structures, and Modules for Broadband 5G Applications. , 2018, , .		18
11	Exploiting 3D printed substrate for microfluidic SIW sensor. , 2015, , .		16
12	Optical Single-Event Transients Induced in Integrated Silicon-Photonic Waveguides by Two-Photon Absorption. IEEE Transactions on Nuclear Science, 2021, 68, 785-792.	2.0	14
13	3D printed reconfigurable helical antenna based on microfluidics and liquid metal alloy. , 2016, , .		12
14	Novel 3D-printed "Chinese fan" bow-tie antennas for origami/shape-changing configurations. , 2017, , .		11
15	3D Printed One-shot Deployable Flexible "Kirigami" Dielectric Reflectarray Antenna for mm-Wave Applications. , 2020, , .		10
16	A novel chipless RFID-based stretchable and wearable hand gesture sensor. , 2015, , .		9
17	3D printed wearable flexible SIW and microfluidics sensors for Internet of Things and smart health applications. , 2017, , .		9
18	The Principles of "Smart" Encapsulation: Using Additive Printing Technology for the Realization of Intelligent Application-Specific Packages for IoT, 5G, and Automotive Radar Applications. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
19	Self-Actuating 3D Printed Packaging for Deployable Antennas. , 2017, , .		6
20	A Fully 3D Printed Multi-Chip Module with an On-Package Enhanced Dielectric Lens for mm-Wave Applications Using Multimaterial Stereo-lithography. , 2018, , .		6
21	Radar & additive manufacturing technologies: The future of Internet of Things (IoT). , 2018, , .		6
22	3D-Printed Omnidirectional Luneburg Lens Retroreflectors for Low-Cost mm-Wave Positioning. , 2020, , .		6
23	Additive manufacturing of substrate integrated waveguide components. , 2016, , .		5
24	On-package mm-wave FSS integration with 3D-printed encapsulation. , 2017, , .		5
25	A novel additive-manufactured multiple-infill ultra-lightweight cavity-backed slot antenna for UWB applications. , 2017, , .		5
26	A Novel Integration of Stereolithography and Inkjet Printing for Multichip Modules with High Frequency Packaging Applications. , 2018, , .		5
27	RF Systems on Antenna (SoA): a Novel Integration Approach Enabled by Additive Manufacturing. , 2020, , .		5
28	Uncertainty Quantification of Printed Microwave Interconnects by Use of the Sparse Polynomial Chaos Expansion Method. IEEE Microwave and Wireless Components Letters, 2022, 32, 1-4.	3.2	5
29	3D Printed 2.45 GHz Yagi-Uda Loop Antenna Utilizing Microfluidic Channels and Liquid Metal. , 2019, , .		4
30	Additively Manufactured "Smart" RF/mm-Wave Packaging Structures: A Quantum Leap for On-Demand Customizable Integrated 5G and Internet of Things Modules. IEEE Microwave Magazine, 2022, 23, 94-106.	0.8	4
31	A Machine Learning Approach-based Chipless RFID System for Robust Detection in Real-world Implementations. , 2021, , .		3
32	Multi-domain modeling of 3D printed, nanotechnology and morphing/origami-based RF modules. , 2016, , .		2
33	A Millimeter Wave Tri-Polarized Patch Antenna with a Bandwidth-Enhancing Parasitic Element. , 2021, , .		2