

Jimmy G D Hester

List of Publications by Year in descending order

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44
papers

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516710

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docs citations

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times ranked

1112
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Energy Autonomous Two-Way Repeater System for Non-Line-of-Sight Interrogation in Next Generation Wireless Sensor Networks. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 1779-1788.	4.6	2
3	Extending the Range of 5G Energy Transfer: Towards the Wireless Power Grid. , 2022, , .		1
4	5G as a wireless power grid. Scientific Reports, 2021, 11, 636.	3.3	52
5	Backscatter Communications. IEEE Journal of Microwaves, 2021, 1, 864-878.	6.5	12
6	5.8-GHz Low-Power Tunnel-Diode-Based Two-Way Repeater for Non-Line-of-Sight Interrogation of RFIDs and Wireless Sensor Networks. IEEE Microwave and Wireless Components Letters, 2021, 31, 794-797.	3.2	6
7	Holography-Based Target Localization and Health Monitoring Technique Using UHF Tags Array. IEEE Internet of Things Journal, 2021, 8, 14719-14730.	8.7	10
8	A Machine Learning Approach-based Chipless RFID System for Robust Detection in Real-world Implementations. , 2021, , .		3
9	Optimizing Rotmen Lens Topologies for 5G Wireless Grids. , 2021, , .		1
10	UHF Tags Array for Holographic Target Localization and Wireless Health Monitoring. , 2021, , .		0
11	A Wideband, Quasi-Isotropic, Kilometer-Range FM Energy Harvester for Perpetual IoT. IEEE Microwave and Wireless Components Letters, 2020, 30, 201-204.	3.2	12
12	A Compact Source-Load Agnostic Flexible Rectenna Topology for IoT Devices. IEEE Transactions on Antennas and Propagation, 2020, 68, 2621-2629.	5.1	38
13	A 5.8 GHz Fully-Tunnel-Diodes-Based 20 μ W, 88mV, and 48 dB-Gain Fully-Passive Backscattering RFID Tag. , 2020, , .		2
14	A Winning Backscatter Modulator: A Quarter-Gram, Ultrahigh-Frequency RFID for On-Metal Operation. IEEE Microwave Magazine, 2020, 21, 96-100.	0.8	0
15	Rotman Lens-Based Wide Angular Coverage and High-Gain Semipassive Architecture for Ultralong Range mm-Wave RFIDs. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1943-1947.	4.0	31
16	A Scalable High-Gain and Large-Beamwidth mm-wave Harvesting Approach for 5G-powered IoT. , 2019, , .		43
17	Read/Interrogation Enhancement of Chipless RFIDs Using Machine Learning Techniques. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2272-2276.	4.0	13
18	Novel Additively Manufactured Packaging Approaches for 5G/mm-Wave Wireless Modules. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
19	Inkjet-/3D-/4D-Printed Wireless Ultrabroadband Modules for IoT, Smarttag and Smart City Applications. International Journal of High Speed Electronics and Systems, 2019, 28, 1940016.	0.7	1
20	Miniaturized Millimeter Wave RFID Tag for Spatial Identification and Localization in Internet of Things Applications. , 2019, , .		14
21	Nanotechnology-Empowered Flexible Printed Wireless Electronics: A Review of Various Applications of Printed Materials. IEEE Nanotechnology Magazine, 2019, 13, 18-29.	1.3	19
22	A Novel Ultra-Lightweight Multiband Rectenna on Paper for RF Energy Harvesting in the Next Generation LTE Bands. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 366-379.	4.6	181
23	Nanotechnology-Enabled Additively-Manufactured RF and Millimeter-wave Electronics. , 2018, , .		4
24	Additively Manufactured Inkjet-/3D-/4D-Printed Wireless Sensors Modules. International Journal of High Speed Electronics and Systems, 2018, 27, 1840012.	0.7	3
25	Printed Motes for IoT Wireless Networks: State of the Art, Challenges, and Outlooks. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1819-1830.	4.6	17
26	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
27	V-band electronically reconfigurable metamaterial. Journal of Applied Physics, 2017, 121, 164902.	2.5	1
28	A fully autonomous ultra-low power hybrid RF/photovoltaic energy harvesting system with $\hat{\sim}25$ dBm sensitivity. , 2017, , .		5
29	Inkjet-/3D-/4D-printed autonomous wearable RF modules for biomonitoring, positioning and sensing applications. Proceedings of SPIE, 2017, , .	0.8	5
30	Sensitivity enhancement of flexible gas sensors via conversion of inkjet-printed silver electrodes into porous gold counterparts. Scientific Reports, 2017, 7, 8988.	3.3	29
31	First Demonstration of 28 GHz and 39 GHz Transmission Lines and Antennas on Glass Substrates for 5G Modules. , 2017, , .		36
32	Millimeter-wave ink-jet printed RF energy harvester for next generation flexible electronics. , 2017, , .		29
33	Long-Range Wireless Interrogation of Passive Humidity Sensors Using Van-Atta Cross-Polarization Effect and Different Beam Scanning Techniques. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5345-5354.	4.6	28
34	On-Body Long-Range Wireless Backscattering Sensing System Using Inkjet-/3-D-Printed Flexible Ambient RF Energy Harvesters Capable of Simultaneous DC and Harmonics Generation. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5389-5400.	4.6	32
35	A novel additive-manufactured multiple-infill ultra-lightweight cavity-backed slot antenna for UWB applications. , 2017, , .		5
36	A novel, facile, layer-by-layer substrate surface modification for the fabrication of all-inkjet-printed flexible electronic devices on Kapton. Journal of Materials Chemistry C, 2016, 4, 7052-7060.	5.5	23

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37	Inkjet-printed substrate integrated waveguides (SIW) with "drill-less" vias on paper substrates. , 2016, , .		9
38	UHF lumped element model of a fully-inkjet-printed single-wall-carbon-nanotube-based inter-digitated electrodes breath sensor. , 2016, , .		4
39	Inkjet-Printed Flexible mm-Wave Van-Atta Reflectarrays: A Solution for Ultralong-Range Dense Multitag and Multisensing Chipless RFID Implementations for IoT Smart Skins. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4763-4773.	4.6	84
40	A bio-enabled maximally mild layer-by-layer Kapton surface modification approach for the fabrication of all-inkjet-printed flexible electronic devices. Scientific Reports, 2016, 6, 39909.	3.3	28
41	Additively Manufactured Nanotechnology and Origami-Enabled Flexible Microwave Electronics. Proceedings of the IEEE, 2015, 103, 583-606.	21.3	79
42	Ambient energy harvesting from a two-way talk radio for flexible wearable devices utilizing inkjet printing masking. , 2015, , .		6
43	Ambient RF Energy Harvesting From a Two-Way Talk Radio for Flexible Wearable Wireless Sensor Devices Utilizing Inkjet Printing Technologies. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 4533-4543.	4.6	69
44	RFID-Based Wireless Passive Sensors Utilizing Cork Materials. IEEE Sensors Journal, 2015, 15, 7242-7251.	4.7	25