

Ismail Ben Mabrouk

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Compact Implantable MIMO Antenna for High-Data-Rate Biotelemetry Applications. IEEE Transactions on Antennas and Propagation, 2022, 70, 631-640.	5.1	30
2	Feedforward Neural Network-Based Data Aggregation Scheme for Intrabody Area Nanonetworks. IEEE Systems Journal, 2022, 16, 1796-1807.	4.6	8
3	Wideband Substrate Integrated Waveguide Antenna for Full-Duplex Systems. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 212-216.	4.0	14
4	A Wearable Circularly Polarized Antenna Backed by AMC Reflector for WBAN Communications. IEEE Access, 2022, 10, 12838-12852.	4.2	19
5	Ultra-Wideband Hybrid Magneto-Electric Dielectric-Resonator Dipole Antenna Fed by a Printed RGW for Millimeter-Wave Applications. IEEE Access, 2022, 10, 2028-2036.	4.2	10
6	Design of a Coplanar Waveguide-Fed Wideband Compact-Size Circularly Polarized Antenna and polarization-sense alteration. Wireless Networks, 2022, 28, 1797-1804.	3.0	3
7	An Ultra-Miniaturized Antenna With Ultra-Wide Bandwidth for Future Cardiac Leadless Pacemaker. IEEE Transactions on Antennas and Propagation, 2022, 70, 5923-5928.	5.1	12
8	Wireless Powering and Telemetry of Deep-Body Ingestible Bioelectronic Capsule. IEEE Transactions on Antennas and Propagation, 2022, 70, 9819-9830.	5.1	9
9	EM-driven size reduction and multi-criterial optimization of broadband circularly-polarized antennas using pareto front traversing and design extrapolation. Scientific Reports, 2022, 12, .	3.3	3
10	A Review on the State of the Art in Atrial Fibrillation Detection Enabled by Machine Learning. IEEE Reviews in Biomedical Engineering, 2021, 14, 219-239.	18.0	55
11	A Systematic Design of a Compact Wideband Hybrid Directional Coupler Based on Printed RGW Technology. IEEE Access, 2021, 9, 56765-56772.	4.2	14
12	Scattering and Roughness Analysis of Indoor Materials at Frequencies from 750 GHz to 1.1 THz. IEEE Transactions on Antennas and Propagation, 2021, 69, 7820-7829.	5.1	19
13	An Ultra-Miniaturized Antenna With Ultra-Wide Bandwidth Characteristics for Medical Implant Systems. IEEE Access, 2021, 9, 40086-40097.	4.2	33
14	Compact SIW-Based Self-Quadruplexing Antenna for Wearable Transceivers. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 118-122.	4.0	29
15	A Series Inclined Slot-Fed Circularly Polarized Antenna for 5G 28 GHz Applications. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 351-355.	4.0	29
16	Ultracompact Quarter-Mode Substrate Integrated Waveguide Self-Diplexing Antenna. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1269-1273.	4.0	15
17	Biotelemetry and Wireless Powering of Biomedical Implants Using a Rectifier Integrated Self-Diplexing Implantable Antenna. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3438-3451.	4.6	61
18	Low-profile dual-band implantable antenna for compact implantable biomedical devices. AEU - International Journal of Electronics and Communications, 2021, 138, 153896.	2.9	11

#	ARTICLE	IF	CITATIONS
19	Series-Slot-Fed Circularly Polarized Multiple-Input–Multiple-Output Antenna Array Enabling Circular Polarization Diversity for 5G 28 GHz Indoor Applications. IEEE Transactions on Antennas and Propagation, 2021, 69, 5607-5616.	5.1	24
20	Scalp-Implantable MIMO Antenna for High-Data-Rate Head Implants. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2529-2533.	4.0	31
21	Enhancement of MIMO-UWB Communications in Underground Mine Environments. , 2021, , .		0
22	Rapid Redesign and Bandwidth/Size Tradeoffs for Compact Wideband Circular Polarization Antennas Using Inverse Surrogates and Fast EM-Based Parameter Tuning. IEEE Transactions on Antennas and Propagation, 2020, 68, 81-89.	5.1	34
23	A Novel Design of Radiation Pattern-Reconfigurable Antenna System for Millimeter-Wave 5G Applications. IEEE Transactions on Antennas and Propagation, 2020, 68, 2585-2592.	5.1	27
24	Exact analysis of the multihop multibranch hybrid AF/DF relaying networks. International Journal of Communication Systems, 2020, 33, e4549.	2.5	0
25	Compacted Conformal Implantable Antenna With Multitasking Capabilities for Ingestible Capsule Endoscope. IEEE Access, 2020, 8, 157617-157627.	4.2	37
26	Terahertz Antenna Array Based on a Hybrid Perovskite Structure. IEEE Open Journal of Antennas and Propagation, 2020, 1, 464-471.	3.7	17
27	On 60 GHz MIMO Diversity in an Underground Mine Propagation Channel. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1769-1773.	4.0	4
28	A 10-Ports MIMO Antenna System for 5G Smart-Phone Applications. IEEE Access, 2020, 8, 218477-218488.	4.2	24
29	Design of 1-Bit Digital Subwavelength Metasurface Element for Sub-6 GHz Applications. , 2020, , .		2
30	Circular Polarization Diversity Implementation for Correlation Reduction in Wideband Low-Cost Multiple-Input-Multiple-Output Antenna. IEEE Access, 2020, 8, 95585-95593.	4.2	19
31	An Efficient Routing Scheme for Intrabody Nanonetworks Using Artificial Bee Colony Algorithm. IEEE Access, 2020, 8, 98946-98957.	4.2	16
32	Enhanced-Performance Circularly Polarized MIMO Antenna With Polarization/Pattern Diversity. IEEE Access, 2020, 8, 11887-11895.	4.2	55
33	Implementation of Spatial/Polarization Diversity for Improved-Performance Circularly Polarized Multiple-Input-Multiple-Output Ultra-Wideband Antenna. IEEE Access, 2020, 8, 64112-64119.	4.2	13
34	Correlation Reduction in Closely-Spaced MIMO Antenna With Circular Polarization Diversity. , 2020, , .		0
35	A Dual-Band Antenna Backed by AMC Surface Using Genetic Algorithm for 2.4/5.8 GHz Underground Mining Communications. , 2020, , .		8
36	Deterministic Modeling of 5G Millimeter-Wave Communication in an Underground Mine Tunnel. IEEE Access, 2019, 7, 116519-116528.	4.2	16

#	ARTICLE	IF	CITATIONS
37	A Compact Circularly Polarized Antenna With Directional Pattern for Wearable Off-Body Communications. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2523-2527.	4.0	46
38	A Simple-Topology Compact Broadband Circularly Polarized Antenna With Unidirectional Radiation Pattern. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2612-2616.	4.0	12
39	Hybrid Isolator for Mutual-Coupling Reduction in Millimeter-Wave MIMO Antenna Systems. IEEE Access, 2019, 7, 58466-58474.	4.2	21
40	ON THE PATH LOSS MODEL FOR 5-GHZ MICROWAVE-BASED PINLESS SUBSEA CONNECTORS. Progress in Electromagnetics Research Letters, 2019, 82, 147-153.	0.7	2
41	An Ultra-Wideband Circularly Polarized Multiple-Input Multiple-Output Antenna with Polarization Diversity. , 2019, , .		0
42	The Potentials, Challenges, and Future Directions of On-Chip-Antennas for Emerging Wireless Applicationsâ€”A Comprehensive Survey. IEEE Access, 2019, 7, 173897-173934.	4.2	32
43	Experimental Validation of Receiver Sensitivity for 100-Mbps Data Rates in Seawater by Using 2.4 GHz-Low-Power Electronics. International Journal on Communications Antenna and Propagation, 2019, 9, 62.	0.3	0
44	NLOS capacity and time dispersion of a multipath fading MIMO channel using directive antennas in an underground WBAN application. , 2017, , .		0
45	Impact of NLOS on the path loss and channel capacity of a MIMO off-body system inside a mine. , 2017, , .		0
46	MIMO PROPAGATION MEASUREMENTS IN UNDERGROUND MINE USING BEAMFORMING BUTLER MATRIX NETWORKS. Progress in Electromagnetics Research C, 2016, 70, 111-122.	0.9	1
47	PERFORMANCE EVALUATION OF A MIMO-ON-BODY SYSTEM IN A MINE ENVIRONMENT. Progress in Electromagnetics Research C, 2016, 61, 55-63.	0.9	2
48	Path loss effect on off-body channel capacity of a MIMO system using patch antennas inside a mine. , 2016, , .		3
49	Multipath effect on off-body channel parameters of a MIMO system using patch antennas inside a mine. , 2016, , .		3
50	Mmâ€“waves propagation measurements in underground mine using directional MIMO antennas. IET Microwaves, Antennas and Propagation, 2016, 10, 517-524.	1.4	20
51	Multipleâ€“input multipleâ€“output beamâ€“space for highâ€“speed wireless communication in underground mine. IET Microwaves, Antennas and Propagation, 2016, 10, 8-15.	1.4	8
52	G-Shaped Dual Band Wearable Button Antenna for ISM Band Applications. International Journal on Communications Antenna and Propagation, 2016, 6, 39.	0.3	0
53	Characterization of a NLOS Off-Body Channel at 2.45 GHz Using Patch Antenna Inside a Mine. , 2015, , .		3
54	CHARACTERIZATION OF AN OFF-BODY CHANNEL AT 2.45 GHZ IN AN UNDERGROUND MINE ENVIRONMENT. Progress in Electromagnetics Research M, 2015, 43, 91-100.	0.9	16

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55	Characterization of an on-body quasi-static channel in underground mine environment. , 2015, , .		0
56	Off-body performance of patch antenna in underground mine. , 2015, , .		0
57	Off-body LOS and NLOS channel characterization in a mine environment. , 2015, , .		14
58	Effect of Antenna Directivity on Adaptive Modulation in an Underground Mine Gallery Effet de directivité d'antenne sur la modulation adaptative dans une galerie de mine souterraine. Canadian Journal of Electrical and Computer Engineering, 2014, 37, 222-227.	2.0	2
59	Feasibility of a Millimeter-Wave MIMO System for Short-Range Wireless Communications in an Underground Gold Mine. IEEE Transactions on Antennas and Propagation, 2013, 61, 4296-4305.	5.1	43
60	EXPERIMENTAL CHARACTERIZATION OF A MIMO UNDERGROUND MINE CHANNEL AT 2.45 GHZ. Progress in Electromagnetics Research B, 2013, 50, 219-234.	1.0	4
61	EXPERIMENTAL CHARACTERIZATION OF WIRELESS MIMO CHANNEL AT 5.8 GHZ IN UNDERGROUND GOLD MINE. Progress in Electromagnetics Research C, 2013, 36, 169-180.	0.9	5
62	Experimental characterization of MIMO-UWB multipath underground mine radio channels. , 2012, , .		0
63	Effect of Mining Machinery on MIMO-UWB Radiowave Propagation Within an Underground Gallery. IEEE Transactions on Antennas and Propagation, 2012, 60, 5390-5399.	5.1	1
64	MIMO-UWB Channel Characterization Within an Underground Mine Gallery. IEEE Transactions on Antennas and Propagation, 2012, 60, 4866-4874.	5.1	58
65	Enhancement of wireless channel performance using MIMO system in underground mine gallery. , 2012, , .		1
66	Improvement of wireless channel performance using MIMO-UWB system in underground mine gallery. , 2012, , .		1
67	Performance Evaluation of a MIMO System in Underground Mine Gallery. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 830-833.	4.0	17
68	EXPERIMENTAL CHARACTERIZATION OF A WIRELESS MIMO CHANNEL AT 2.4 GHz IN UNDERGROUND MINE GALLERY. Progress in Electromagnetics Research Letters, 2012, 29, 97-106.	0.7	8
69	ON THE PERFORMANCE OF MIMO SYSTEMS FOR LTE DOWNLINK IN UNDERGROUND GOLD MINE. Progress in Electromagnetics Research Letters, 2012, 30, 59-66.	0.7	2
70	Design of a high gain hybrid dielectric resonator antenna for millimeter-waves underground applications. , 2011, , .		16
71	Characterization of the MIMO channel for LTE standard in underground mine. , 2011, , .		1
72	A dielectric resonator antenna mounted on a conformal structure at 60 GHz.. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
73	MIMO channel characterization at 2.4 GHz in underground gold mines. , 2011, , .		2