

Ismail Ben Mabrouk

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2098886/publications.pdf>

Version: 2024-02-01

73
papers

1,049
citations

394421

19
h-index

477307

29
g-index

73
all docs

73
docs citations

73
times ranked

601
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	MIMO-UWB Channel Characterization Within an Underground Mine Gallery. IEEE Transactions on Antennas and Propagation, 2012, 60, 4866-4874.	5.1	58
3	Enhanced-Performance Circularly Polarized MIMO Antenna With Polarization/Pattern Diversity. IEEE Access, 2020, 8, 11887-11895.	4.2	55
4	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
5	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
6	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
7	Compacted Conformal Implantable Antenna With Multitasking Capabilities for Ingestible Capsule Endoscope. IEEE Access, 2020, 8, 157617-157627.	4.2	37
8	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
9	An Ultra-Miniaturized Antenna With Ultra-Wide Bandwidth Characteristics for Medical Implant Systems. IEEE Access, 2021, 9, 40086-40097.	4.2	33
10	The Potentials, Challenges, and Future Directions of On-Chip-Antennas for Emerging Wireless Applications—A Comprehensive Survey. IEEE Access, 2019, 7, 173897-173934.	4.2	32
11	Scalp-Implantable MIMO Antenna for High-Data-Rate Head Implants. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2529-2533.	4.0	31
12	A Compact Implantable MIMO Antenna for High-Data-Rate Biotelemetry Applications. IEEE Transactions on Antennas and Propagation, 2022, 70, 631-640.	5.1	30
13	Compact SIW-Based Self-Quadruplexing Antenna for Wearable Transceivers. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 118-122.	4.0	29
14	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
15	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
16	A 10-Ports MIMO Antenna System for 5G Smart-Phone Applications. IEEE Access, 2020, 8, 218477-218488.	4.2	24
17	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
18	Hybrid Isolator for Mutual-Coupling Reduction in Millimeter-Wave MIMO Antenna Systems. IEEE Access, 2019, 7, 58466-58474.	4.2	21

#	ARTICLE	IF	CITATIONS
19	Mm-waves propagation measurements in underground mine using directional MIMO antennas. IET Microwaves, Antennas and Propagation, 2016, 10, 517-524.	1.4	20
20	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
21	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
22	A Wearable Circularly Polarized Antenna Backed by AMC Reflector for WBAN Communications. IEEE Access, 2022, 10, 12838-12852.	4.2	19
23	Performance Evaluation of a MIMO System in Underground Mine Gallery. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 830-833.	4.0	17
24	Terahertz Antenna Array Based on a Hybrid Perovskite Structure. IEEE Open Journal of Antennas and Propagation, 2020, 1, 464-471.	3.7	17
25	Design of a high gain hybrid dielectric resonator antenna for millimeter-waves underground applications. , 2011, , .		16
26	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
27	Deterministic Modeling of 5G Millimeter-Wave Communication in an Underground Mine Tunnel. IEEE Access, 2019, 7, 116519-116528.	4.2	16
28	An Efficient Routing Scheme for Intrabody Nanonetworks Using Artificial Bee Colony Algorithm. IEEE Access, 2020, 8, 98946-98957.	4.2	16
29	Ultracompact Quarter-Mode Substrate Integrated Waveguide Self-Diplexing Antenna. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1269-1273.	4.0	15
30	Off-body LOS and NLOS channel characterization in a mine environment. , 2015, , .		14
31	A Systematic Design of a Compact Wideband Hybrid Directional Coupler Based on Printed RGW Technology. IEEE Access, 2021, 9, 56765-56772.	4.2	14
32	Wideband Substrate Integrated Waveguide Antenna for Full-Duplex Systems. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 212-216.	4.0	14
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	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
35	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
36	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
37	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
38	Wireless Powering and Telemetry of Deep-Body Ingestible Bioelectronic Capsule. IEEE Transactions on Antennas and Propagation, 2022, 70, 9819-9830.	5.1	9
39	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
40	Multiple-Input multiple-Output beam-space for high-speed wireless communication in underground mine. IET Microwaves, Antennas and Propagation, 2016, 10, 8-15.	1.4	8
41	Feedforward Neural Network-Based Data Aggregation Scheme for Intrabody Area Nanonetworks. IEEE Systems Journal, 2022, 16, 1796-1807.	4.6	8
42	A Dual-Band Antenna Backed by AMC Surface Using Genetic Algorithm for 2.4/5.8 GHz Underground Mining Communications. , 2020, , .		8
43	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
44	A dielectric resonator antenna mounted on a conformal structure at 60 GHz.. , 2011, , .		4
45	EXPERIMENTAL CHARACTERIZATION OF A MIMO UNDERGROUND MINE CHANNEL AT 2.45 GHZ. Progress in Electromagnetics Research B, 2013, 50, 219-234.	1.0	4
46	On 60 GHz MIMO Diversity in an Underground Mine Propagation Channel. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1769-1773.	4.0	4
47	Characterization of a NLOS Off-Body Channel at 2.45 GHz Using Patch Antenna Inside a Mine. , 2015, , .		3
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	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
51	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
52	MIMO channel characterization at 2.4 GHz in underground gold mines. , 2011, , .		2
53	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
54	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

#	ARTICLE	IF	CITATIONS
55	PERFORMANCE EVALUATION OF A MIMO-ON-BODY SYSTEM IN A MINE ENVIRONMENT. Progress in Electromagnetics Research C, 2016, 61, 55-63.	0.9	2
56	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
57	Design of 1-Bit Digital Subwavelength Metasurface Element for Sub-6 GHz Applications. , 2020, , .		2
58	Characterization of the MIMO channel for LTE standard in underground mine. , 2011, , .		1
59	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
60	Enhancement of wireless channel performance using MIMO system in underground mine gallery. , 2012, , .		1
61	Improvement of wireless channel performance using MIMO-UWB system in underground mine gallery. , 2012, , .		1
62	MIMO PROPAGATION MEASUREMENTS IN UNDERGROUND MINE USING BEAMFORMING BUTLER MATRIX NETWORKS. Progress in Electromagnetics Research C, 2016, 70, 111-122.	0.9	1
63	Experimental characterization of MIMO-UWB multipath underground mine radio channels. , 2012, , .		0
64	Characterization of an on-body quasi-static channel in underground mine environment. , 2015, , .		0
65	Off-body performance of patch antenna in underground mine. , 2015, , .		0
66	NLOS capacity and time dispersion of a multipath fading MIMO channel using directive antennas in an underground WBAN application. , 2017, , .		0
67	Impact of NLOS on the path loss and channel capacity of a MIMO off-body system inside a mine. , 2017, , .		0
68	An Ultra-Wideband Circularly Polarized Multiple-Input Multiple-Output Antenna with Polarization Diversity. , 2019, , .		0
69	Exact analysis of the multihop multibranch hybrid AF/DF relaying networks. International Journal of Communication Systems, 2020, 33, e4549.	2.5	0
70	G-Shaped Dual Band Wearable Button Antenna for ISM Band Applications. International Journal on Communications Antenna and Propagation, 2016, 6, 39.	0.3	0
71	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
72	Correlation Reduction in Closely-Spaced MIMO Antenna With Circular Polarization Diversity. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
73	Enhancement of MIMO-UWB Communications in Underground Mine Environments. , 2021, , .		0