Davy P Gaillot

List of Publications by Year
in descending order

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85 papers	1,208 citations	393982 19 h-index	395343 33 g-index
86 all docs	86 docs citations	86 times ranked	1403 citing authors

#	Article	IF	Citations
1	Autoregressive Modeling Approach for Non-Stationary Vehicular Channel Simulation. IEEE Transactions on Vehicular Technology, 2022, 71, 1124-1131.	3.9	1
2	IRACON channel measurements and models. , 2021, , 49-105.		4
3	Angular characteristics of multipath propagation in an indoor industrial environment. IET Microwaves, Antennas and Propagation, 2021, 15, 768-777.	0.7	2
4	Evaluation of an Antenna Selection Strategy for Reduced Massive MIMO Complexity. Radio Science, 2021, 56, e2020RS007242.	0.8	1
5	Human Sensing in Reverberant Environments: RF-Based Occupancy and Fall Detection in Ships. IEEE Transactions on Vehicular Technology, 2021, 70, 4512-4522.	3.9	6
6	Massive MIMO Communication Strategy Using Polarization Diversity for Industrial Scenarios. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 297-301.	2.4	14
7	Measurement-Based Feasibility Exploration on Detecting and Localizing Multiple Humans Using MIMO Radio Channel Properties. IEEE Access, 2020, 8, 3738-3750.	2.6	11
8	Experimental Characterization of Non-Stationary V2I Radio Channel in Tunnels. , 2020, , .		0
9	Experimental Study on the Impact of Antenna Characteristics on Non-Stationary V2I Channel Parameters in Tunnels. IEEE Transactions on Vehicular Technology, 2020, 69, 12396-12407.	3.9	11
10	LoS Theoretical and Experimental MIMO Study from 1â€“40 GHz in Indoor Environments. Electronics (Switzerland), 2020, 9, 1688.	1.8	1
11	Channel Correlation-Based Approach for Feedback Overhead Reduction in Massive MIMO. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2478-2482.	2.4	3
12	Impact of Polarization Diversity in Massive MIMO for Industry 4.0. , 2019, , .		1
13	On the Contribution of Dense Multipath Components in an Intrawagon Environment for 5G mmW Massive MIMO Channels. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2483-2487.	2.4	6
14	A Multi-Band Body-Worn Distributed Exposure Meter for Personal Radio-Frequency Dosimetry in Diffuse Indoor Environments. IEEE Sensors Journal, 2019, 19, 6927-6937.	2.4	8
15	Stationarity Analysis of V2I Radio Channel in a Suburban Environment. IEEE Transactions on Vehicular Technology, 2019, 68, 11532-11542.	3.9	16
16	Hybrid virtual polarimetric massive MIMO measurements at 1.35 GHz. IET Microwaves, Antennas and Propagation, 2019, 13, 2610-2618.	0.7	3
17	An extension of the RiMAX multipath estimation algorithm for ultra-wideband channel modeling. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, 164.	1.5	10
18	Line-of-Sight Massive MIMO Channel Characteristics in an Indoor Scenario at 94 GHz. IEEE Access, 2018, 6, 62361-62370.	2.6	10

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19	An Indoor Variance-Based Localization Technique Utilizing the UWB Estimation of Geometrical Propagation Parameters. IEEE Transactions on Antennas and Propagation, 2018, 66, 2522-2533.	3.1	34
20	Capacity analysis of an IEEE 802.11n system in a residential house based on estimated specular and dense multipath components. IET Microwaves, Antennas and Propagation, 2017, 11, 1671-1675.	0.7	1
21	Clustering of radio channel parameters: Evaluation of a novel automatic identification algorithm. , 2016, , .		0
22	Millimeter-Wave Propagation: Characterization and modeling toward fifth-generation systems. [Wireless Corner]. IEEE Antennas and Propagation Magazine, 2016, 58, 115-127.	1.2	86
23	Polarimetric indoor measurements at 94 GHz. , 2016, , .		3
24	Capacity simulation and analysis of an IEEE 802.11n system in a residential house. , 2016, , .		2
25	An indoor localization technique based on ultra-wideband AoD/AoA/ToA estimation. , 2016, , .		16
26	Onâ€body calibration and measurements using personal radiofrequency exposimeters in indoor diffuse and specular environments. Bioelectromagnetics, 2016, 37, 298-309.	0.9	31
27	Channel sounding and indoor radio channel characteristics in the W-band. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	1.5	11
28	Personal radio-frequency exposimeters in indoor diffuse environments: Measurement and simulation. , 2016, , .		0
29	Polarimetric Distance-Dependent Models For Large Hall Scenarios. IEEE Transactions on Antennas and Propagation, 2016, 64, 1907-1917.	3.1	7
30	Impact of clustering at mmW band frequencies. , 2015, , .		5
31	Flexible real-time MIMO channel sounder for multidimensional polarimetric parameter estimation. , 2015, , .		14
32	Experimental Investigation of Electromagnetic Reverberation Characteristics as a Function of UWB Frequencies. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 859-862.	2.4	14
33	Polarimetric properties and modeling of the power delay profile in large hall scenarios. , 2015, , .		2
34	Initial 75–110 GHz indoor propagation measurements. , 2015, , .		0
35	Performance of a Novel Automatic Identification Algorithm for the Clustering of Radio Channel Parameters. IEEE Access, 2015, 3, 2252-2259.	2.6	13
36	Assessing Whole-Body Absorption Cross Section For Diffuse Exposure From Reverberation Chamber Measurements. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 27-34.	1.4	19

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37	Polarization Properties of Specular and Dense Multipath Components in a Large Industrial Hall. IEEE Transactions on Antennas and Propagation, 2015, 63, 3219-3228.	3.1	25
38	Polarization diversity measurements and propagation characteristics in deep indoor environment. , 2015, , .		0
39	Overview of mobile localization techniques and performances of a novel fingerprinting-based method. Comptes Rendus Physique, 2015, 16, 862-873.	0.3	3
40	Experimental investigation of the characteristics of the electromagnetic reverberation in the UWB bands. , 2014, , .		1
41	Performance Analysis of Antenna Arrays in Tunnel Environment. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 122-125.	2.4	7
42	On clustering for deterministic and measured indoor mmW channels. , 2014, , .		0
43	Experimental Analysis of Dense Multipath Components in an Industrial Environment. IEEE Transactions on Antennas and Propagation, 2014, 62, 3797-3805.	3.1	49
44	Deterministic and Experimental Indoor mmW Channel Modeling. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1047-1050.	2.4	37
45	Multipath Component Distance-Based Fingerprinting Technique for Non-Cooperative Outdoor Localization in NLOS Scenarios. IEEE Transactions on Antennas and Propagation, 2014, 62, 4794-4798.	3.1	6
46	Polarization properties of specular and dense multipath components in a large industrial hall. , 2014, , .		5
47	Validation of experimental wholeâ€body SAR assessment method in a complex indoor environment. Bioelectromagnetics, 2013, 34, 122-132.	0.9	20
48	Determination of the whole-body absorption cross section of a phantom using RiMAX. , 2013, , .		0
49	Specular path estimation errors with ESPRIT, SAGE, and RiMAX in the presence of dense multipath. , 2012, , .		1
50	Robustness of high-resolution channel parameter estimators in presence of dense multipath components. Electronics Letters, 2012, 48, 130.	0.5	5
51	DOUBLE DIRECTIONAL CHANNEL MEASUREMENTS IN AN ARCHED TUNNEL AND INTERPRETATION USING RAY TRACING IN A RECTANGULAR TUNNEL. Progress in Electromagnetics Research M, 2012, 22, 91-107.	0.5	22
52	Joint Carrier Frequency Offset and Fast Time-Varying Channel Estimation for MIMO-OFDM Systems. IEEE Transactions on Vehicular Technology, 2011, 60, 955-965.	3.9	53
53	INVESTIGATIONS AND MIMICRY OF THE OPTICAL PROPERTIES OF BUTTERFLY WINGS. Journal of Nonlinear Optical Physics and Materials, 2010, 19, 489-501.	1.1	10
54	Synchronization sensitivity of block-IFDMA systems. IEEE Transactions on Wireless Communications, 2010, 9, 256-267.	6.1	1

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55	MIMO channel emulator based on reverberation chambers. , 2009, , .		0
56	Transformation optics for the full dielectric electromagnetic cloak and metalâ€“dielectric planar hyperlens. New Journal of Physics, 2008, 10, 115039.	1.2	28
57	Low-loss left-handed metamaterials at millimeter waves. Applied Physics Letters, 2008, 93, 083104.	1.5	8
58	Design of annular photonic crystal slabs. Optics Letters, 2008, 33, 1614.	1.7	24
59	Numerical investigation of metamaterials infiltrated by liquid crystal. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1920.	0.9	11
60	An all-dielectric route for terahertz cloaking. Optics Express, 2008, 16, 3986.	1.7	80
61	Magnetic control of negative permeability metamaterials based on liquid crystals. Applied Physics Letters, 2008, 92, .	1.5	67
62	Magnetic Control of Negative Permeability Metamaterials based on Liquid Crystals. , 2008, , .		5
63	Transparency cloak based on High-k BST rods. , 2008, , .		2
64	Split Ring Resonator Arrays: from Microwave to Optics. , 2008, , .		1
65	Composite organic-inorganic butterfly scales: Production of photonic structures with atomic layer deposition. Physical Review E, 2008, 78, 031922.	0.8	86
66	Impedance mismatch in negative index photonic crystals. Proceedings of SPIE, 2008, , .	0.8	0
67	An all-dielectric route for terahertz cloaking. , 2008, , .		0
68	TUNING OF PHOTONIC CRYSTAL BAND PROPERTIES BY ATOMIC LAYER DEPOSITION. Journal of Nonlinear Optical Physics and Materials, 2008, 17, 1-14.	1.1	7
69	Bloch impedance in negative index photonic crystals. Physical Review B, 2008, 77, .	1.1	40
70	Fabrication of Three-Dimensional Photonic Crystals by Templated Atomic Layer Deposition. , 2008, , .		0
71	Atomic Layer Deposition for Nano-Fabrication of 3D Optoelectronic Devices. ECS Transactions, 2007, 3, 191-205.	0.3	2
72	Manipulation of Dispersion Properties of Two-dimensional Photonic Crystal Slab Waveguides by Atomic Layer Deposition. , 2007, , .		0

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73	Dispersion control in two-dimensional superlattice photonic crystal slab waveguides by atomic layer deposition. Applied Physics Letters, 2007, 91, .	1.5	16
74	Tunable Bragg peak response in liquid-crystal-infiltrated photonic crystals. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 990.	0.9	12
75	Sacrificial-Layer Atomic Layer Deposition for Fabrication of Non-Close-Packed Inverse-Opal Photonic Crystals. Advanced Functional Materials, 2006, 16, 1187-1196.	7.8	63
76	Conformally Back-Filled, Non-close-packed Inverse-Opal Photonic Crystals. Advanced Materials, 2006, 18, 1063-1067.	11.1	50
77	Tunable electro-optic photonic crystals fabricated through template directed multilayer atomic layer deposition. , 2006, , .		0
78	Photonic band gap response of structurally modified non-close-packed inverse opals by template directed multilayer atomic layer deposition. , 2006, 6182, 105.		0
79	Tunable 3D photonic crystals by liquid crystal infiltration. , 2006, , .		0
80	Photonic band gaps in non-close-packed inverse opals. Journal of Applied Physics, 2006, 100, 113118.	1.1	15
81	Photonic band tuning in two-dimensional photonic crystal slab waveguides by atomic layer deposition. Applied Physics Letters, 2006, 89, 181108.	1.5	46
82	Photonic band tuning in 2D photonic crystals by atomic layer deposition. , 2006, , .		0
83	LUMINESCENT AND TUNABLE 3D PHOTONIC CRYSTAL STRUCTURES. Journal of Nonlinear Optical Physics and Materials, 2006, 15, 203-218.	1.1	2
84	Photonic band gaps in highly conformal inverse-opal based photonic crystals. Physical Review B, 2005, 72, .	1.1	28
85	Highly tunable photonic band gap in inverse shell non-close-packed structures. , 2005, , .		0