Zbynek Raida

List of Publications by Year
in descending order

147	783	759233	642732
papers	citations	12 h-index	23 g-index

148	148	148	786
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lowpass filter with reduced fractal defected ground structure. Electronics Letters, 2013, 49, 199-201.	1.0	105
2	High-Gain Dielectric-Loaded Vivaldi Antenna for K_{a} -Band Applications. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 2004-2007.	4.0	73
3	Enhanced-Gain Dielectric Resonator Antenna Based on the Combination of Higher-Order Modes. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 710-713.	4.0	43
4	Influence of car panorama glass roofs on Car2Car communication (poster). , 2011, , .		35
5	Design of apertureâ€coupled microstrip patch antenna array fed by SIW for 60 GHz band. IET Microwaves, Antennas and Propagation, 2016, 10, 288-292.	1.4	30
6	Modeling EM structures in the neural network toolbox of MATLAB. IEEE Antennas and Propagation Magazine, 2002, 44, 46-67.	1.4	29
7	The RF Energy Harvesting Antennas Operating in Commercially Deployed Frequency Bands: A Comparative Study. International Journal of Antennas and Propagation, 2016, 2016, 1-11.	1.2	26
8	Wearable Disc-Like Antenna for Body-Centric Communications at 61ÂGHz. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1490-1493.	4.0	25
9	Substrate integrated waveguide monopolar ring-slot antenna. Microwave and Optical Technology Letters, 2014, 56, 1865-1869.	1.4	21
10	Three-Element Filtering Antenna Array Designed by the Equivalent Circuit Approach. IEEE Transactions on Antennas and Propagation, 2016, 64, 3831-3839.	5.1	20
11	An Effective Permittivity Tensor of Cylindrically Perforated Dielectrics. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 66-69.	4.0	19
12	Wideband Skin-Equivalent Phantom for V- and W-Band. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 211-213.	4.0	16
13	Improvement of convergence properties of Wang neural network. Electronics Letters, 1994, 30, 1865-1866.	1.0	14
14	Vivaldi Antenna for RF Energy Harvesting. Radioengineering, 2016, 25, 666-671.	0.6	14
15	SIW slot antennas utilized for 60-GHz channel characterization. Microwave and Optical Technology Letters, 2015, 57, 1365-1370.	1.4	11
16	Textile-Integrated Electronics For Small Airplanes. , 2018, , .		11
17	Millimetre-wave beam-switching rotman lens antenna designs on multi-layered LCP substrates. , 2016, , .		10
18	Millimetreâ€wave dielectric resonator antenna array based on directive LTCC elements. IET Microwaves, Antennas and Propagation, 2018, 12, 662-667.	1.4	10

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19	High-Gain, Circularly-Polarized THz Antenna With Proper Modeling of Structures With Thin Metallic Walls. IEEE Access, 2020, 8, 125223-125233.	4.2	10
20	Wide-band dielectric resonator antennas for RF energy harvesting. , 2015, , .		9
21	Comparison of novel multi-objective self organizing migrating algorithm with conventional methods. , 2011, , .		7
22	Wearable antennas: Comparison of different concepts. , 2016, , .		7
23	Multi-objective Self-organizing Migrating Algorithm. Studies in Computational Intelligence, 2016, , 83-103.	0.9	7
24	Circularly polarized substrate integrated textile antenna for ISM band 24 GHz. , 2017, , .		7
25	Low-profile Circularly Polarized Antenna Exploiting Fabry-Perot Resonator Principle. Radioengineering, 2015, 24, 898-905.	0.6	7
26	Design and optimization of periodic structures for simultaneous EBG and AMC operation. , 2010, , .		6
27	Design and optimization of high-impedance surfaces. International Journal of RF and Microwave Computer-Aided Engineering, 2012, 22, 541-544.	1.2	6
28	Multi-objective self-organizing migrating algorithm applied to the design of electromagnetic components. IEEE Antennas and Propagation Magazine, 2013, 55, 50-68.	1.4	6
29	Koch slot loop antenna for wireless bodyâ€centric communication. Microwave and Optical Technology Letters, 2014, 56, 764-766.	1.4	6
30	Millimeter-wave directive dielectric resonator antenna based on LTCC. , 2016, , .		6
31	Gain enhanced millimetre-wave beam-switching Rotman lens antenna designs on LCP. , 2017, , .		6
32	Optimal Design of Timed Antenna Arrays for SLL Reduction, Dual and Multiple Broad Nulls in the Radiation Pattern. IETE Technical Review (Institution of Electronics and Telecommunication Engineers,) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.2	6
33	Uncooled Antenna-Coupled Microbolometer for Detection of Terahertz Radiation. Journal of Infrared, Millimeter, and Terahertz Waves, 2021, 42, 462-478.	2.2	6
34	Frequency Limits of Textile-Integrated Components. , 2020, , .		6
35	Design of circularly polarized terahertz antenna with superstrate (cover) layer. , 2013, , .		5
36	Highâ€gain wideband SIW offset parabolic antenna. Microwave and Optical Technology Letters, 2016, 58, 2888-2892.	1.4	5

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37	Milimeter-wave propagation in 3D knitted fabrics. , 2018, , .		5
38	Rat Head Phantom for Testing of Electroencephalogram Source Localization Techniques. IEEE Access, 2020, 8, 106735-106745.	4.2	5
39	Textileâ€integrated microwave components based on artificial magnetic conductor. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, e2864.	1.9	5
40	A broad tuneable birdcage coil for mouse 1H/19F MR applications. Journal of Magnetic Resonance, 2021, 329, 107023.	2.1	5
41	Signal processing techniques for stabilization of marching-on-in-time method. , 2009, , .		4
42	On-roof wireless link operating at 60 GHz. , 2015, , .		4
43	Antenna Range Illuminator Based on a Septum Polarizer and a Dual-Mode Horn [Measurements Corner]. IEEE Antennas and Propagation Magazine, 2016, 58, 82-86.	1.4	4
44	Gain improvement of higher order mode dielectric resonator antenna by thin air gap. , 2016, , .		4
45	High-Gain Circularly Polarized Corporate-Feed Terahertz Antenna Array. , 2018, , .		4
46	Slot Antennas Integrated into 3D Knitted Fabrics: 5.8 GHz and 24 GHz ISM Bands. Sensors, 2022, 22, 2707.	3.8	4
47	Multiband planar antennas on electromagnetic bandgap substrates: Complex global optimization of the structure. Microwave and Optical Technology Letters, 2006, 48, 2532-2534.	1.4	3
48	Estimation of properties of homogeneous dielectric equivalent of composite shielding materials. , 2009, , .		3
49	Two-pole filtering antenna for body centric communications. , 2013, , .		3
50	Broadband monopole antenna with convex conical reflector for 802.11a standard. Microwave and Optical Technology Letters, 2013, 55, 1243-1247.	1.4	3
51	Dipole antenna array with synthesized frequency dependency of gain and reflection coefficient. , 2013, , .		3
52	Equivalent circuits of planar filtering antennas fed by apertures. , 2014, , .		3
53	Antenna implementable into button for on-body communications at 61 GHz. , 2014, , .		3
54	Compact arrays fed by substrate integrated waveguides. , 2014, , .		3

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55	Wireless power transmission in small airplanes. , 2016, , .		3
56	Linearly polarized high gain rectangular dielectric resonator antenna. , 2016, , .		3
57	Circularly polarized modular patch antenna array fed by substrate integrated waveguide. Microwave and Optical Technology Letters, 2018, 60, 1398-1403.	1.4	3
58	Electrical Source Imaging in Freely Moving Rats: Evaluation of a 12-Electrode Cortical Electroencephalography System. Frontiers in Neuroinformatics, 2020, 14, 589228.	2.5	3
59	Finite-element analysis of open microwave waveguides using a PML-like spatial mapping. Microwave and Optical Technology Letters, 1998, 18, 180-184.	1.4	2
60	CAE in optoelectronics. IEEE Transactions on Education, 1999, 42, 220-224.	2.4	2
61	Multi-Objective Synthesis of Multiband Planar Antennas in Time Domain. , 2007, , .		2
62	On Using Orthogonal Polynomials for Transient Analysis of Wire Antennas. , 2008, , .		2
63	Adaptive beam forming in time-domain. , 2011, , .		2
64	Vertically polarized antenna system for television broadcasting services. , 2011, , .		2
65	Evaluation of electromagnetic immunity of layered structures by neural networks. IET Microwaves, Antennas and Propagation, 2011, 5, 482.	1.4	2
66	Small antenna for aerobatic aircraft. , 2012, , .		2
67	Slot antenna array on circular SIW resonator for on body communications. , 2014, , .		2
68	Pulsed Electromagnetic Waves Between Parallel Plates: The Modal-Expansion and Generalized-Ray Approaches. IEEE Antennas and Propagation Magazine, 2014, 56, 90-101.	1.4	2
69	Filtering antennas: Comparison of different concepts. , 2014, , .		2
70	A new model for radiation boundary conditions. , 2014, , .		2
71	Novel Planar Horn Antenna for 75/85 GHz Experimental Wireless Link. Radioengineering, 2015, 24, 681-687.	0.6	2
72	Wireless power transfer along a car body at 60 GHz: Experimental investigations. , 2015, , .		2

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73	Dual band Koch antenna for RF energy harvesting. , 2016, , .		2
74	Electromagnetic simulation for certification of small aircraft: Direct and indirect effects of lightning. , 2016, , .		2
75	H-plane SIW horn antenna for on-body communication. , 2016, , .		2
76	SIWâ€fed Vivaldi antenna with beam steering capabilities. Microwave and Optical Technology Letters, 2017, 59, 1022-1027.	1.4	2
77	Extending axial ratio bandwidth of antenna array by parasitic patches. , 2018, , .		2
78	Physical layer authentication of offâ€body channels by probabilistic neural networks. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2628.	1.9	2
79	Textile-Integrated Electronics: State of the Art. , 2020, , .		2
80	Sensitivity analysis of a modular circularly polarized antenna array for 60 GHz band. , 2020, , .		2
81	Practical design of Ku band Vivaldi antenna array. Journal of Electrical Engineering, 2020, 71, 347-352.	0.7	2
82	Anisotropic Conductivity of Rat Head Phantom and its Influence on Electroencephalogram Source Localization. IEEE Access, 2022, 10, 9877-9888.	4.2	2
83	Time-domain multi-objective optimization of antennas. , 2006, , .		1
84	Internet Support of Education in Antenna and Microwave Techniques. , 2008, , .		1
85	Novel ultra-wideband slot-line antenna designed by adaptive real coded genetic algorithm. , 2009, , .		1
86	Wideband feeders for millimeter-wave horn antennas. , 2010, , .		1
87	Planar antenna arrays for long range links. , 2012, , .		1
88	Microwave imaging: Comparison of direct scattering problem solvers. , 2013, , .		1
89	CPW-fed double triangular slot antenna for biomedical applications. , 2013, , .		1
90	Diffraction of electromagnetic wave on skin capillary. , 2014, , .		1

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91	Diffraction of electromagnetic wave on skin blood vessel: Statement of the problem. , 2014, , .		1
92	Lightning protection of aircraft systems installed inside composite nose: Principal analysis. , 2015, , .		1
93	Neural modeling of in-vehicle wireless channels: Wave propagation along the vehicle body at 60 GHz. , 2015, , .		1
94	Rectangular dielectric resonator antenna with switchable radiation pattern. , 2015, , .		1
95	Millimeter wave slot array for on-body communication. , 2015, , .		1
96	Wireless body area networks numerical, experimental and approximate characterization. , 2016, , .		1
97	Comparison of neural models of UWB and 60GHz in-car transmission channels. , 2016, , .		1
98	Models of wave propagation along car roof. , 2017, , .		1
99	Transition adapters for 3D textile substrates. , 2017, , .		1
100	MATLAB-based Multi-objective Optimization of Broadband Circularly Polarized Antennas. , 2017, , .		1
101	Electromagnetic Modeling of Rat's Brain: Comparison of Models and Solvers. , 2018, , .		1
102	Realization of circularly polarized antenna array with parasitic patches. , 2019, , .		1
103	Textileâ€integrated waveguide switch for ISM band 5.8 GHz. Microwave and Optical Technology Letters, 2020, 62, 1564-1569.	1.4	1
104	Synthesis of Electromagnetic Equivalents of Composite Sheets by Multi-Objective Optimization of Anisotropic Band-Stop Filters. , 2018, , .		1
105	SIW-Based Circularly Polarized Antenna Array for 60 GHz 5G Band: Feasibility Study. Sensors, 2022, 22, 2945.	3.8	1
106	Classification of Microwave Planar Filters by Deep Learning. Radioengineering, 2022, 31, 69-76.	0.6	1
107	Comparison of finite-element method with variational analytical methods for planar guiding structures. Microwave and Optical Technology Letters, 1998, 18, 252-258.	1.4	0
108	International Traveling Summer School of Microwaves and Lightwaves. , 2005, , .		0

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109	E-Education: Internet Textbooks. , 2005, , .		0
110	Multireflector Antennas. , 2006, , .		0
111	Four-Band Patch Antenna with U-Shaped Notches. , 2006, , .		0
112	Time-domain characterization of antennas in metamaterial media. Microwave and Optical Technology Letters, 2006, 48, 2530-2532.	1.4	0
113	Transient analysis of microwave antennas by method of moments: Feeding ports and efficiency of MOT and MOO methods. , 2006, , .		0
114	Modeling of Ultra-wideband Coplanar Patch Antennas. , 2007, , .		0
115	Coplanar Ultra-Wideband Modification of the Low-Profile Inverted Cone Antenna. , 2007, , .		0
116	Optimized wideband horn antenna for millimeter-wave spectroscopy applications. Journal of Molecular Spectroscopy, 2007, 243, 227-233.	1.2	0
117	Planar and Volumetric Electromagnetic Band Gap Structures â€“ a Comparison. , 2008, , .		0
118	Analysis of Stability of MOT Scheme with Different Temporal Basis Functions. , 2008, , .		0
119	Design of Linearly Tapered Slot-line Antenna's Array for Quasi-terahertz Molecular Spectroscopy. , 2008, , .		0
120	Analyzing small aircraft model with homogeneous composite material substitutes on HIRF. , 2009, , .		0
121	Active transmission line on GaAs substrate. , 2009, , .		0
122	Linearly tapered slotline antenna array for quasi-optical molecular spectroscopy. Microwave and Optical Technology Letters, 2010, 52, 1043-1046.	1.4	0
123	Novel fractal modification of wideband cone antenna designed by global optimization method. , 2010, , .		0
124	Sierpinski conical monopole antennas. , 2010, , .		0
125	Prediction of transmission parameters of atmospheric link up to 1 THz. , 2010, , .		0
126	Impedance network simplification: A combinatorial optimization approach. , 2011, , .		0

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127	Novel planar wideband antennas designed by multi-thread hybrid optimization method. , 2011, , .		0
128	Antennas with synthesized frequency dependency of gain. , 2012, , .		0
129	Slot antennas for on-body communication. , 2013, , .		0
130	75/85 GHz experimental wireless link. , 2013, , .		0
131	Diffracted image restoration: A machine learning approach. , 2013, , .		0
132	Radiation boundary conditions: A new semi-analytical approach. , 2014, , .		0
133	Novel formulation of coefficients of low-pass prototype filter for the design of four-element planar filtering antenna array. , 2015, , .		0
134	Optimal meshing for high-frequency analysis of realistic structure. , 2015, , .		0
135	Development of master degree program on design and application of reconfigurable smart radioelectronic devices. , 2015, , .		0
136	Neural-network based in-vehicle localization passengers. , 2016, , .		0
137	Estimation the transmission between antennas using artificial neural networks in the UWB band. , 2016, , .		0
138	Reply to â€œComments on â€˜Wideband Skin-Equivalent Phantom for V- and W-Bandâ€™â€Šâ€• IEEE Antennas and Wireless Propagation Letters, 2017, 16, 3258-3258.	4.0	0
139	Experimental electromagnetic characterization of composite joints: Theoretical background. , 2017, , .		0
140	Combined energy harvester integrated into car. , 2017, , .		0
141	A Compact Circularly Polarized High-Gain Antenna Array for Ka-Band CubeSats Applications. , 2019, , .		0
142	A Reverse Neural Model of a General Planar Transmission Line. , 2000, , 203-208.		0
143	Multi-Objective Synthesis of Filtering Dipole Array Based on Tuning-Space Mapping. Radioengineering, 2015, 24, 688-694.	0.6	0
144	Multi-objective Design of EM Components. Studies in Computational Intelligence, 2016, , 105-119.	0.9	0

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145	Influence of Physical Models of Electrodes on Ratâ€™s Head Forward Modelling. IFMBE Proceedings, 2020, , 217-225.	0.3	0
146	Pressure and humidity detector based on textile integrated waveguide. Journal of Electrical Engineering, 2022, 73, 57-61.	0.7	0
147	Waveguide Synthesis by Genetic Algorithms with Multiple Crossover. Lecture Notes in Computer Science, 0, , 420-424.	1.3	0