

Ladislau Matekovits

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7634657/ladislau-matekovits-publications-by-citations.pdf>
Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

147 papers	1,565 citations	21 h-index	35 g-index
226 ext. papers	2,244 ext. citations	2.8 avg, IF	5.08 L-index

#	Paper	IF	Citations
147	Analysis of Large Complex Structures With the Synthetic-Functions Approach. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 2509-2521	4.9	150
146	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 1404-1411	2	120
145	Dual-Band Dual-Mode Textile Antenna on PDMS Substrate for Body-Centric Communications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 677-680	3.8	100
144	Multioctave Frequency Selective Surface Reflector for Ultrawideband Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 219-222	3.8	89
143	Synthetic function analysis of large printed structures: the solution space sampling approach		55
142	. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 67-75	4.9	46
141	High Gain Rectangular Dielectric Resonator Antenna Using Uniaxial Material at Fundamental Mode. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 342-347	4.9	42
140	. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 4957-4972	4.9	39
139	Some Insight Over New Variations of the Particle Swarm Optimization Method. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2006 , 5, 235-238	3.8	38
138	Topological edge states of interacting photon pairs emulated in a topoelectrical circuit. <i>Nature Communications</i> , 2020 , 11, 1436	17.4	37
137	Width-Modulated Microstrip-Line Based Mantle Cloaks for Thin Single- and Multiple Cylinders. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 2606-2615	4.9	37
136	Multipolar passive cloaking by nonradiating anapole excitation. <i>Scientific Reports</i> , 2018 , 8, 12514	4.9	36
135	. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 4588-4599	4.9	33
134	Tunable mantle cloaking utilizing graphene metasurface for terahertz sensing applications. <i>Optics Express</i> , 2019 , 27, 34824-34837	3.3	30
133	Multiresolution analysis of printed antennas and circuits: a dual-isoscalar approach. <i>IEEE Transactions on Antennas and Propagation</i> , 2001 , 49, 858-874	4.9	29
132	Cylindrical Anisotropic Dielectric Resonator Antenna With Improved Gain. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 1404-1409	4.9	28
131	Gain Improvement of Rectangular Dielectric Resonator Antenna by Engraving Grooves on Its Side Walls. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 2167-2170	3.8	26

130	Controlling the Bandlimits of TE-Surface Wave Propagation Along a Modulated Microstrip-Line-Based High Impedance Surface. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 2555-2562	4.9	26
129	A CONSTANT GAIN ULTRA-WIDEBAND ANTENNA WITH A MULTI-LAYER FREQUENCY SELECTIVE SURFACE. <i>Progress in Electromagnetics Research Letters</i> , 2013 , 38, 119-125	0.5	25
128	. <i>IEEE Transactions on Antennas and Propagation</i> , 2009 , 57, 1936-1943	4.9	24
127	. <i>IEEE Access</i> , 2020 , 8, 199242-199253	3.5	24
126	A low-profile dual-layer ultra-wideband frequency selective surface reflector. <i>Microwave and Optical Technology Letters</i> , 2013 , 55, 1223-1227	1.2	21
125	A numerical regularization of the EFIE for three-dimensional planar structures in layered media (invited article). <i>The International Executive</i> , 1997 , 7, 410-431		21
124	Analytically Expressed Dispersion Diagram of Unit Cells for a Novel Type of Holographic Surface. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2010 , 9, 1251-1254	3.8	19
123	Particle swarm optimization of microwave microstrip filters 2004 ,		17
122	Metamaterial-Based Millimeter-Wave Switchable Leaky Wave Antennas for On-Chip Implementation in Gaas Technology. <i>Journal of Electromagnetic Waves and Applications</i> , 2011 , 25, 49-61	1.3	16
121	TUNABLE PERIODIC MICROSTRIP STRUCTURE ON GAAS WAFER. <i>Progress in Electromagnetics Research</i> , 2009 , 97, 1-10	3.8	16
120	. <i>IEEE Access</i> , 2017 , 5, 8804-8811	3.5	14
119	Invisibility and cloaking structures as weak or strong solutions of Devaney-Wolf theorem. <i>Optics Express</i> , 2016 , 24, 19245-53	3.3	14
118	Surface-admittance equivalence principle for nonradiating and cloaking problems. <i>Physical Review A</i> , 2017 , 95,	2.6	12
117	Improved PSO algorithms for electromagnetic optimization		12
116	. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 1809-1813	3.8	10
115	2013 ,		10
114	Closed-form harmonic contrast control with surface impedance coatings for conductive objects. <i>Applied Optics</i> , 2017 , 56, 10055	1.7	9
113	Strip-Width and Slot-Gap Dependent Equivalent Isotropic Substrate and Dispersion Characteristics of Asymmetric Coplanar Waveguide, Symmetric Coplanar Waveguide and Micro-Coplanar Strip Line on Anisotropic Substrates. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014 , 62, 2232-2241	4.1	9

112	Increasing the gain of a semicircular slot UWB antenna using an FSS reflector 2012 ,		9
111	Towards Printable Natural Dielectric Cloaks via Inverse Scattering Techniques. <i>Scientific Reports</i> , 2017 , 7, 3680	4.9	8
110	Changing the Electromagnetic Bandgap and Stopbands in a Multistate Periodic Circuit. <i>Microwave and Optical Technology Letters</i> , 2013 , 55, 1871-1874	1.2	8
109	Oblique incidence performance of UWB frequency selective surfaces for reflector applications 2011 ,		8
108	Multiple input multiple output dielectric resonator antenna with circular polarized adaptability for 5G applications. <i>Journal of Electromagnetic Waves and Applications</i> , 2020 , 34, 1180-1194	1.3	7
107	Singular, Hierarchical Scalar Basis Functions for Triangular Cells. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 3674-3692	4.9	7
106	Design and analysis of frequency-selective surfaces for ultrawideband applications 2011 ,		7
105	Effects of a Coplanar Waveguide Biasing Network Built Into the Ground Plane on the Dispersion Characteristics of a Tunable Unit Cell With an Elliptical Patch and Multiple Vias. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 1088-1091	3.8	7
104	Reconfigurable metasurface lens based on graphene split ring resonators using Pancharatnam-Berry phase manipulation. <i>Journal of Electromagnetic Waves and Applications</i> , 2019 , 33, 572-583	1.3	7
103	Singular Hierarchical Curl-Conforming Vector Bases for Triangular Cells. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 3632-3644	4.9	6
102	Modulated strip-line leaky-wave antenna using a printed grating lens and a surface-wave source 2010 ,		6
101	Application of numerical regularization options to the integral-equation analysis of printed antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 1997 , 45, 570-572	4.9	6
100	Propagation of Electromagnetic Waves in a Sinusoidally Modulated Dielectric Substrate. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2007 , 6, 207-210	3.8	6
99	Nonradiating anapole condition derived from Devaney-Wolf theorem and excited in a broken-symmetry dielectric particle. <i>Optics Express</i> , 2020 , 28, 10294-10307	3.3	6
98	Automated optimization for broadband flat-gain antenna designs with artificial neural network. <i>IET Microwaves, Antennas and Propagation</i> , 2021 , 15, 1537-1544	1.6	6
97	Mantle cloaking due to ideal magnetic dipole scattering. <i>Scientific Reports</i> , 2020 , 10, 2413	4.9	5
96	Electrically tunable mantle cloaking utilizing graphene metasurface for oblique incidence. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 116, 153080	2.8	5
95	EQUIVALENT-CIRCUIT MODELS FOR EFFICIENT TRANSMISSION AND DISPERSION ANALYSES OF MULTI-STATE PERIODIC STRUCTURES. <i>Progress in Electromagnetics Research</i> , 2015 , 153, 93-102	3.8	5

94	. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 97-100	3.8	5
93	Efficient numerical analysis of large planar high impedance surface by the synthetic function expansion technique. <i>Microwave and Optical Technology Letters</i> , 2009 , 51, 2763-2769	1.2	5
92	Active Switching Devices in a Tunable EBG Structure: Placement Strategies and Modelling. <i>Journal of Electromagnetic Waves and Applications</i> , 2011 , 25, 1740-1751	1.3	5
91	Reduced complexity biasing solution for switched parallel plate waveguide with embedded active metamaterial layer. <i>Journal of Electromagnetic Waves and Applications</i> , 2012 , 26, 1828-1836	1.3	5
90	A Review on Different Techniques of Mutual Coupling Reduction Between Elements of Any MIMO Antenna. Part 1: DGSs and Parasitic Structures. <i>Radio Science</i> , 2021 , 56, e2020RS007122	1.4	5
89	On-body antennas: Design considerations and challenges 2016 ,		5
88	Dual-band circularly polarized MIMO DRA for sub-6 GHz applications. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2020 , 30, e22350	1.5	4
87	A transmission polarizer based on width-modulated lines and slots 2013 ,		4
86	Hierarchical Additive Basis Functions for the Finite-Element Treatment of Corner Singularities. <i>Electromagnetics</i> , 2014 , 34, 171-198	0.8	4
85	Electromagnetic bandgap solution for mitigation of parallel-plate noise in power distribution networks. <i>Microwave and Optical Technology Letters</i> , 2012 , 54, 1689-1692	1.2	4
84	Controlling the Phase of the Scattered and/or Radiated Field From a High Impedance Surface of Quasi-Periodic Sequences. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2013 , 12, 321-324	3.8	4
83	A reduced representation of the frequency response of printed antennas. <i>The International Executive</i> , 1997 , 7, 432-441		4
82	Effect of transverse periodicity on the value of the effective dielectric constant for a microstrip line 2007 ,		4
81	Hybrid spectral-spatial method for the analysis of printed antennas. <i>Radio Science</i> , 1996 , 31, 1263-1270	1.4	4
80	A Review on Different Techniques of Mutual Coupling Reduction Between Elements of Any MIMO Antenna. Part 2: Metamaterials and Many More. <i>Radio Science</i> , 2021 , 56, e2020RS007222	1.4	4
79	Dynamically Tunable Scattering Manipulation of Dielectric and Conducting Cylinders Using Nanostructured Graphene Metasurfaces. <i>IEEE Access</i> , 2019 , 7, 15556-15562	3.5	3
78	Frequency Selective Surface With Two Quasi-Independent Notch Frequencies. <i>IEEE Access</i> , 2019 , 7, 77263-77267	3.5	3
77	A Stripline-Based Planar Wideband Feed for High-Gain Antennas with Partially Reflecting Superstructure. <i>Micromachines</i> , 2019 , 10,	3.3	3

76	Inverse Scattering Homogenization method for conformal metamaterial structures 2015 ,		3
75	A leaky-wave antenna for beam steering in forward and backward directions 2013 ,		3
74	An ideal dielectric coat to avoid prosthesis RF-artefacts in Magnetic Resonance Imaging. <i>Scientific Reports</i> , 2017 , 7, 326	4.9	3
73	A Surface Impedance Model for a Microstrip-line based Metasurface 2017 ,		3
72	Full-Wave Analysis of Inhomogeneous Waveguiding Structures Containing Corners With Singular Hierarchical Curl-Conforming Vector Bases. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014 , 13, 1701-1704	3.8	3
71	An implantable PIFA antenna with a J-shaped proximity feed for RFID telemetry 2013 ,		3
70	Enhanced gain UWB slot antenna with multilayer Frequency-Selective Surface reflector 2011 ,		3
69	A Low-Profile Phase Correcting Solution to Improve Directivity of Horn Antenna 2018 ,		3
68	Dielectric Resonator Antennas: Applications and Developments in Multiple-Input, Multiple-Output Technology. <i>IEEE Antennas and Propagation Magazine</i> , 2021 , 2-15	1.7	3
67	On the radiation mechanism of implanted antennas with large conformal ground plane. <i>IET Microwaves, Antennas and Propagation</i> , 2017 , 11, 1765-1769	1.6	2
66	Bending Analysis of Switchable Frequency Selective Surface Based on Flexible Composite Substrate 2019 ,		2
65	An implantable Hilbert PIFA antenna for RFID based telemetry 2013 ,		2
64	Localized surface plasmon resonance: nano-sinusoid arrays. <i>Journal of Electromagnetic Waves and Applications</i> , 2013 , 27, 638-648	1.3	2
63	Polarization stable ultra-wide-band Frequency Selective Surface for Ku- and K- band applications 2013 ,		2
62	Band pattern of commensurate modulated periodic structures. <i>IET Microwaves, Antennas and Propagation</i> , 2017 , 11, 1303-1307	1.6	2
61	EVOLUTION TOWARDS A NEW LSPR PARTICLE: NANO-SINUSOID. <i>Progress in Electromagnetics Research</i> , 2012 , 132, 199-213	3.8	2
60	Electromagnetic communication solution for scuba-diving 2013 ,		2
59	Synthetic-functions analysis of antennas and inter-antenna coupling in complex environments 2004 ,		2

58	Reduced-complexity MoM simulation of printed structures		2
57	A novel multiresolution approach to the EFIE analysis of printed antennas. <i>Microwave and Optical Technology Letters</i> , 1999 , 23, 49-51	1.2	2
56			2
55	A Study on Application of Dielectric Resonator Antenna in Implantable Medical Devices. <i>IEEE Access</i> , 2022 , 10, 11846-11857	3.5	2
54	Electromagnetic Bottom-Up Optimization for Automated Antenna Designs 2020 ,		2
53	Harmonic analysis and reduction of the scattered field from electrically large cloaked metallic cylinders. <i>Applied Optics</i> , 2020 , 59, 3742-3750	1.7	2
52	Investigations on the Doping Effects on the Properties of Piezoelectric Ceramics. <i>Advanced Materials Research</i> , 1158, 105-114	0.5	2
51	Optimization for Wideband Linear Array Antenna through Bottom-Up Method 2020 ,		2
50	Frequency Selective Surface with two Notch Frequencies and Good Incidence Angle Stability for Screening Applications 2018 ,		2
49	Spectral Composition of the Scattered Field from a Large Metallic Cloaked Cylinder 2018 ,		2
48	Tunable Polarization Converter Based on Graphene Metasurfaces 2018 ,		2
47	Invisibility Utilizing Huygens Metasurface Based on Mantle Cloak and Scattering Suppression Phenomen. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 5181-5186	4.9	2
46	Deep Learning Assisted Automatic Methodology for Implanted MIMO Antenna Designs on Large Ground Plane. <i>Electronics (Switzerland)</i> , 2022 , 11, 47	2.6	2
45	Key Generation of Biomedical Implanted Antennas Through Artificial Neural Networks 2021 ,		2
44	Analysis of the Surface Impedance of a Sinusoidally Modulated Metasurface 2019 ,		1
43	Development of a Metal Coated Conformal Periodic Geometry for Electromagnetic Application. <i>Advanced Materials Research</i> , 2015 , 1114, 224-228	0.5	1
42	Kirchhoff's current law as local cloaking condition: theory and applications. <i>Electronics Letters</i> , 2016 , 52, 1749-1751	1.1	1
41	Metal-based materials for the development of implanted bio-devices (Invited paper) 2016 ,		1

40	Application of a 2D electromagnetic band-gap structure with metal inclusions to signal integrity issues 2014 ,		1
39	Investigation on FET switch integration techniques for a tunable microwave periodic structure 2012 ,		1
38	Phase contrivance modulated artificial metasurface embedded with rotated slot 2012 ,		1
37	2013 ,		1
36	Modelling PIN diode switches in reconfigurable leaky-wave antenna design 2013 ,		1
35	Numerical analysis of 2D tunable HIS on GaAs support. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 103, 779-782	2.6	1
34	Analysis of the Gap Bandwidth of some High Impedance Surfaces in the Microwave Range. <i>Materials Science Forum</i> , 2010 , 670, 497-503	0.4	1
33	Effects of the variation of the dielectric constant for a periodic, width-modulated microstrip line based sensor 2010 ,		1
32	Metamaterial Based High Impedance Surface with Band-Pass Frequency Response. <i>Materials Science Forum</i> , 2012 , 721, 59-64	0.4	1
31	Investigation on localized surface plasmon resonance of different nano-particles for biosensor applications 2012 ,		1
30	The development of hierarchical bases of the additive kind for corner singularities in triangular cells 2012 ,		1
29	A printed radial configuration of width-modulated strip-lines for controlled guided-wave radiation 2012 ,		1
28	Network parameters of printed antennas from the MoM solution		1
27	Numerical and Experimental Characterization of a Wide-Band Conformal Base Station Antenna 2006 ,		1
26			1
25	Multi-grid, Multi-level Analysis of Printed Arrays and Circuits 2002 ,		1
24	Use of dynamic modes in the analysis of printed antennas and arrays		1
23	Symmetry-breaking manipulation in the design of multifunctional tunable frequency selective surface. <i>AEU - International Journal of Electronics and Communications</i> , 2021 , 142, 154003	2.8	1

22	Multidisciplinary investigations on the use of TiNb alloy orthopedic device equipped with low profile antenna as smart sensor. <i>Procedia Manufacturing</i> , 2020 , 46, 828-837	1.5	1
21	Optimal Huygens Metasurface for Wireless Power Transfer Efficiency Improvement. <i>IEEE Access</i> , 2020 , 8, 216409-216418	3.5	1
20	Controlling surface waves with metasurfaces: From planar propagation to conformal cloaking 2016 ,		1
19	Numerical Investigation on Graphene Based Mantle Cloaking of a PEC Cylinder 2019 ,		1
18	Rectangular Dielectric Resonator Antenna With Corrugated Walls. <i>IEEE Access</i> , 2019 , 7, 3422-3429	3.5	1
17	Effect of Geometrical Parameters of a Width Modulated Microstrip Line Based Mantle-Cloak 2018 ,		1
16	Sidelobe Suppression in Resonant Cavity Antennas through Near-field Analysis 2018 ,		1
15	Analysis and Experiment of Equilateral Triangular Uniaxial-Anisotropic Dielectric Resonator Antennas. <i>IEEE Access</i> , 2018 , 6, 63071-63079	3.5	1
14	A Near-Field Cloaking Study to Reduce MRI RF-Artefacts in Presence of Elongated Prostheses. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2018 , 2, 249-256	2.8	1
13	Design and implementation of compact dual-band conformal antenna for leadless cardiac pacemaker system.. <i>Scientific Reports</i> , 2022 , 12, 3165	4.9	1
12	Deep Learning and its Benefits in Prediction of Patients Through Medical Images 2021 ,		1
11	Hyperparameter Optimization of Long Short-Term Memory Based Forecasting DNN for Antenna Modeling through Stochastic Methods. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2022 , 1-1	3.8	0
10	Controlling frequency distance between individual modes of dielectric resonator nanoantenna using uniaxial anisotropic materials. <i>Radiation Physics and Chemistry</i> , 2022 , 190, 109812	2.5	0
9	Low-Cost, Low-Profile Wide-Band Radar Cross Section Reduction Using Dual-Concentric Phase Gradient Modulated Surface. <i>Electronics (Switzerland)</i> , 2021 , 10, 1552	2.6	0
8	Single-Layered Frequency Selective Surface for Polarization Processing by Transmission Through Elementary Simple Structure Unit Cell Array. <i>IEEE Access</i> , 2021 , 9, 30615-30625	3.5	0
7	Printed Periodic Structures in Support to 5G Network Antennas. <i>PoliTO Springer Series</i> , 2022 , 73-108	0.4	0
6	Making UWB Antennas Unidirectional: Phase Coherence with an Ultra-Wide Band Frequency Selective Surface Reflector 2018 , 227-258		
5	Efficient Numerical Analysis of a Periodic Structure of Multistate Unit Cells. <i>International Journal of Antennas and Propagation</i> , 2014 , 2014, 1-6	1.2	

- 4 Manipulating the radiation pattern of equilateral triangular dielectric resonator antenna using asymmetric grooves. *AEU - International Journal of Electronics and Communications*, **2022**, 145, 154079 2.8
- 3 Materials for Electromagnetic Purpose: The Case of a Microstrip Patch Antenna Characteristics Improvement by Additions of Metals as Spherical Inclusions Into the Substrate. *Acta Marisiensis Seria Technologica*, **2020**, 17, 11-16 0.1
- 2 A helical shaped broadband circularly polarized dielectric resonator antenna. *Journal of Electromagnetic Waves and Applications*, **2020**, 34, 1918-1929 1.3
- 1 Multi-objective Optimization Methods for Passive and Active Devices in mm-Wave 5G Networks. *PoliTO Springer Series*, **2022**, 337-371 0.4