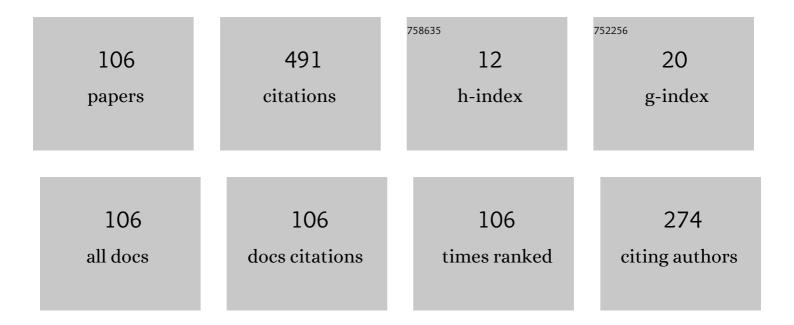
## Vitaly F RodrÃ-guez-Esquerre

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9040951/publications.pdf Version: 2024-02-01



0

#	Article	IF	CITATIONS
1	Metamaterial waveguide modeling by a genetic algorithm-based artificial neural network. , 2022, , .		0
2	Design of Planar Reconfigurable, Tunable, and Wide Angle Resonant Absorbers for Applications in the IR Spectrum. Advanced Theory and Simulations, 2021, 4, 2100002.	1.3	5
3	Wavelength-Selective Near Unity Absorber Based on Fabry-Pérot Nanoresonators. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2021, 20, 219-227.	0.4	2
4	Design of hybrid narrow-band plasmonic absorber based on chalcogenide phase change material in the infrared spectrum. Scientific Reports, 2021, 11, 21919.	1.6	4
5	Metamaterial Waveguide Modelling by an Artificial Neural Network with Genetic Algorithm. , 2021, , .		0
6	Omnidirectional broadband absorber for visible light based on a modulated plasmonic multistack grating. Optics and Laser Technology, 2020, 124, 105981.	2.2	13
7	Inverse Design of a Taper by Scatter Search Metaheuristic. IEEE Photonics Journal, 2020, 12, 1-9.	1.0	2
8	Metamaterial waveguides as integrated optics sensor. Optik, 2020, 212, 164756.	1.4	3
9	Inverse Design of Tapers by Bio-Inspired Algorithms. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2020, 19, 39-49.	0.4	0
10	Design of planar and wideangle resonant color absorbers for applications in the visible spectrum. Scientific Reports, 2019, 9, 7045.	1.6	7
11	Engineering the dispersion properties of multilayered periodic segmented waveguides and nanowire waveguides. Optical Engineering, 2019, 58, 1.	0.5	0
12	Optical properties of liquid crystal periodically segmented waveguides. , 2019, , .		0
13	Narrowband polarization-dependent fractal based plasmonic absorbers. , 2019, , .		0
14	Analysis of the Propagation Properties of 90°-bend Periodic Segmented Waveguides Using the 2D Finite Element Method. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2018, 17, 32-43.	0.4	1
15	Polarization independent metallic-dielectric trapezoidal grating for multiband absorption in the visible. Optical and Quantum Electronics, 2018, 50, 1.	1.5	0
16	Wide-angle filters based on nanoresonators for the visible spectrum. Applied Optics, 2018, 57, 6755.	0.9	11
17	Sensors based on Metamaterial Cladded Waveguides. , 2018, , .		1

18 Scatter Search Applied to the Taper Optimization. , 2018, , .

#	Article	IF	CITATIONS
19	Ultrathin all-dielectric Metasurface for Infrared Waves Focusing. , 2018, , .		0
20	Analysis of Fibonacci Hypercrystal Metamaterials. , 2018, , .		0
21	Optical Logic Gates. , 2018, , .		0
22	Visible/Infrared narrow-band Resonant Absorber. , 2018, , .		0
23	Optical planar filter for visible RGB resonance. , 2018, , .		0
24	Ultra-broadband plasmonic groove absorbers for visible light optimized by genetic algorithms. , 2018, ,		0
25	Broadband polarization-independent absorber based on multilayered metamaterial. , 2018, , .		Ο
26	Propagation properties of Fibonacci hypercrystal based on metamaterials. , 2018, , .		1
27	Metaheuristic optimization of tapers for coupling to periodical subwavelength waveguides. , 2018, , .		Ο
28	Asymmetrical absorption in plasmonic devices optimized by genetic algorithms. , 2018, , .		0
29	Ultra-broadband plasmonic groove absorbers for visible light optimized by genetic algorithms. OSA Continuum, 2018, 1, 796.	1.8	3
30	Design of dielectric to plasmonic waveguide power transfer couplers. , 2017, , .		1
31	Polarization independent asymmetric light absorption in plasmonic nanostructure. , 2017, , .		0
32	Polarization-independent multi-peak plasmonic absorber. , 2017, , .		0
33	Low-crosstalk optimization in 2D segmented waveguide crossings by evolutionary algorithms. , 2017, , .		0
34	Guided modes analysis in metamaterial bounded optical waveguides. , 2017, , .		1
35	Wideangle plasmonic filter for visible light applications. , 2017, , .		0
36	Subwavelength 2D segmented waveguide taper light coupling optimization by evolutionary algorithms. , 2017, , .		0

3

#	Article	IF	CITATIONS
37	Ultrabroadband polarization-independent absorber based on hyperbolic metamaterial. , 2017, , .		Ο
38	Anomalous refraction of infrared waves through ultrathin all dielectric metasurfaces. , 2017, , .		0
39	Power Coupling Optimization in Periodical Segmented Waveguides by Bio-Inspired Algorithms. , 2016, , .		0
40	Propagation properties of metallic dielectric cladded waveguides. , 2016, , .		2
41	Optical properties of nanowire metamaterials with gain. Optics Communications, 2016, 379, 25-31.	1.0	3
42	Artificial immune system optimisation of complete bandgap of bidimensional anisotropic photonic crystals. IET Optoelectronics, 2015, 9, 333-340.	1.8	3
43	Power Coupling Optimization in 2D Waveguides by Evolutionary Algorithms. IEEE Photonics Technology Letters, 2015, 27, 1561-1564.	1.3	11
44	2D taper segmented design by differential evolution algorithm. , 2015, , .		0
45	Propagation characteristics of multilayered subwavelength gratings composed of metallic nanoparticles. Proceedings of SPIE, 2015, , .	0.8	Ο
46	Broadband absorption properties of apodized nanometric gratings. Optical Engineering, 2015, 54, 085103.	0.5	0
47	Artificial Immune Network Design of Optical Multiplexers/Demultiplexers. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2015, 14, 229-237.	0.4	2
48	High-efficient and broadband nanoabsorbers and nanoreflectors based on metallic dielectric periodical structures. , 2014, , .		0
49	Power Coupling Optimization by Artificial Immune System. , 2014, , .		2
50	Non-reciprocal optical devices based on linear silicon photonic crystals. , 2014, , .		1
51	Analysis of Straight Periodic Segmented Waveguide Using the 2-D Finite Element Method. Journal of Lightwave Technology, 2014, 32, 2163-2169.	2.7	17
52	Multimode interferometers based on non-conventional waveguides. Proceedings of SPIE, 2014, , .	0.8	1
53	Approximated Analysis of Multimode Interferometers Based on Non-Conventional Waveguides. , 2014, ,		0
54	Design and Chromatic Aberration Analysis of Plasmonic Lenses Using the Finite Element Method. Journal of Lightwave Technology, 2013, 31, 1114-1119.	2.7	10

#	Article	IF	CITATIONS
55	Coupling properties of directional couplers based on special waveguides. Microwave and Optical Technology Letters, 2013, 55, 949-951.	0.9	2
56	Thermal effects in photonic crystals resonant cavities. , 2013, , .		0
57	Artificial Neural Networks for the Chromatic Dispersion Prediction of Photonic Crystal Fibers. Microwave and Optical Technology Letters, 2013, 55, 2179-2181.	0.9	8
58	Artificial immune systems optimization of the absolute bandgap of photonic crystals. , 2013, , .		3
59	Analysis of Multimode Interferometers based on subwavelength grating waveguides. , 2013, , .		1
60	Geometry dependence of light propagation through subwavelength metallic gratings. , 2013, , .		0
61	Photonic Bandgap Inspection in 2-D Sublattices. Journal of Lightwave Technology, 2012, 30, 2508-2513.	2.7	2
62	Numerical Analysis of Periodic Segmented Waveguides Directional Couplers. , 2012, , .		8
63	Coupling Properties of Novel Directional Couplers Composed of Silicon Nanowires Waveguides. , 2012, , .		6
64	Propagation characteristics analysis of subwavelength grating waveguides. , 2011, , .		4
65	Theoretical analysis of the minimization of thermal effects on the coupling length of directional couplers. , 2011, , .		1
66	Analysis and design of microstrip antennas by Artificial Neural Networks. , 2011, , .		3
67	Analysis of micro-to-nano coupling techniques. , 2011, , .		Ο
68	Analysis and design of directional couplers based on Al <inf>x</inf> Ca <inf>1−x</inf> As by using an efficient neural networks: A design tool simulation implemented in C/C++. , 2011, , .		0
69	Periodic segmented waveguide analysis by using the 2D finite element method. , 2011, , .		1
70	Pedagogical microwave design of photonic crystal waveguides. , 2011, , .		0
71	Photonic band gaps exploration in air/silicon sub-lattices unitary cells. , 2011, , .		0
72	Strategy of Search and Refinement by GA in 2-D Photonic Crystals With Absolute PBG. IEEE Journal of Quantum Electronics, 2011, 47, 431-438.	1.0	26

#	Article	IF	CITATIONS
73	Exploring photonic band gaps in sub-lattices in unitary cells in air/silicon. , 2011, , .		1
74	Simulation of segmented waveguide crossing using the 2D finite element method. , 2011, , .		0
75	Efficient Neural Network Modeling of Photonic Crystal Fiber Chromatic Dispersion. , 2010, , .		5
76	Ge-Doped Defect-Core Microstructured Fiber Design by Genetic Algorithm for Residual Dispersion Compensation. IEEE Photonics Technology Letters, 2010, 22, 1337-1339.	1.3	51
77	Neural Network Analysis and Design of Directional Couplers. , 2010, , .		1
78	Metallic-Dielectric Lenses Chromatic Aberration Analysis. , 2010, , .		0
79	Analysis and design of subwavelength focusing by cylindrical lenses. , 2009, , .		0
80	Step index holey fiber for ultra wideband residual chromatic dispersion compensation. , 2009, , .		2
81	Photonic crystal fiber design with Ge-doped core for residual chromatic dispersion compensation. , 2009, , .		3
82	Novel FEM Approach for the Analysis of Cylindrically Symmetric Photonic Devices. Journal of Lightwave Technology, 2009, 27, 4717-4721.	2.7	8
83	2D Photonic Crystal Layers in Antimony-based films. AIP Conference Proceedings, 2008, , .	0.3	0
84	Temperature Dependence Analysis of Photonic Devices. , 2008, , .		4
85	A proposal of random excitation for the elements of a circular array. , 2007, , .		0
86	Numerical analysis of surface plasmon polariton interference in a single mode dielectric waveguide for TM modes. , 2007, , .		0
87	Coupling characteristics of step index holey fiber. , 2007, , .		0
88	Photonic crystal band gap optimization by generic algorithms. , 2007, , .		6
89	Air core waveguides composed by elliptical metallic nanostructures operating at optical frequencies. , 2006, , .		2
90	Surface plasmon polariton propagation in y-shaped metallic channels junctions. , 2006, , .		1

## VITALY F RODRÃGUEZ-ESQUERRE

#	Article	IF	CITATIONS
91	Band gap of hexagonal 2D photonic crystals with elliptical holes recorded by interference lithography. Optics Express, 2006, 14, 4873.	1.7	61
92	Iterative-solvers for numerical analysis of photonic devices. Microwave and Optical Technology Letters, 2006, 48, 1182-1186.	0.9	2
93	Novel frequency domain finite element formulation for optical circuits in nonlinear photonic crystals. , 2006, , .		0
94	Ultra-flattened chromatic dispersion using a step index holey fiber. , 2006, , .		0
95	Analysis of optical switching circuits based on nonlinear photonic crystals by the frequency domain finite element method. , 2006, , .		1
96	Step Index Holey Fiber for Ultra-flattened Chromatic Dispersion. , 2006, , .		5
97	Frequency-dependent envelope finite-element time-domain analysis of dispersion materials. Microwave and Optical Technology Letters, 2005, 44, 13-16.	0.9	16
98	Power splitters for waveguides composed by ultralow refractive index metallic nanostructures. Applied Physics Letters, 2005, 87, 091101.	1.5	14
99	Finite-element analysis of photonic Crystal cavities: time and frequency domains. Journal of Lightwave Technology, 2005, 23, 1514-1521.	2.7	21
100	<title>Design and fabrication of 2D photonic crystals by holographic lithography</title> . , 2004, 5622, 896.		0
101	Finite-Element Time-Domain Analysis of 2-D Photonic Crystal Resonant Cavities. IEEE Photonics Technology Letters, 2004, 16, 816-818.	1.3	19
102	Novel numerical method for the analysis of 2D photonic crystals: the cell method. Optics Express, 2002, 10, 1299.	1.7	44
103	Novel time-domain step-by-step scheme for integrated optical applications. IEEE Photonics Technology Letters, 2001, 13, 311-313.	1.3	37
104	Genetic-algorithm and finite-element approach to the synthesis of dispersion-flattened fiber. Microwave and Optical Technology Letters, 2001, 31, 245-248.	0.9	15
105	Novel time-domain wave propagation scheme applied to integrated optics. , 2000, , .		0
106	Power splitters for ultralow refractive index metallic nanostructures waveguides. , 0, , .		0