

# Petruzzelli Vincenzo

## List of Publications by Year in descending order

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199  
papers

1,962  
citations

331259

21  
h-index

344852

36  
g-index

200  
all docs

200  
docs citations

200  
times ranked

2361  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for non-exponential elastic proton-neutron differential cross-section at low $ t $ and $\sqrt{s} = 8 \text{ TeV}$ by TOTEM. Nuclear Physics B, 2015, 899, 527-546.	1.7	110
2	Graphene-based absorber exploiting guided mode resonances in one-dimensional gratings. Optics Express, 2014, 22, 31511.	1.7	91
3	Graphene-based perfect optical absorbers harnessing guided mode resonances. Optics Express, 2015, 23, 21032.	1.7	88
4	Measurement of elastic pp scattering at $\sqrt{s} = 8 \text{ TeV}$ in the Coulomb-nuclear interference region: determination of the $\rho$ -parameter and the total cross-section. European Physical Journal C, 2016, 76, 1.	1.4	55
5	Optically transparent microwave screens based on engineered graphene layers. Optics Express, 2016, 24, 22788.	1.7	51
6	Integrated Vivaldi plasmonic antenna for wireless on-chip optical communications. Optics Express, 2017, 25, 16214.	1.7	49
7	Fabrication of force sensors based on two-dimensional photonic crystal technology. Microelectronic Engineering, 2007, 84, 1450-1453.	1.1	44
8	Broadband Mach-Zehnder Switch for Photonic Networks on Chip. Journal of Lightwave Technology, 2012, 30, 944-952.	2.7	42
9	Photonic band gap filter for wavelength division multiplexer. Optics Express, 2003, 11, 230.	1.7	37
10	Asymmetric plasmonic grating for optical sensing of thin layers of organic materials. Sensors and Actuators B: Chemical, 2011, 160, 1056-1062.	4.0	36
11	Experimental demonstration of a novel biosensing platform via plasmonic band gap formation in gold nano-patch arrays. Optics Express, 2011, 19, 21385.	1.7	31
12	Absorption and Losses in One-Dimensional Photonic-Crystal-Based Absorbers Incorporating Graphene. IEEE Photonics Journal, 2014, 6, 1-8.	1.0	30
13	Wavelength Routers for Optical Networks-on-Chip Using Optimized Photonic Crystal Ring Resonators. IEEE Photonics Journal, 2013, 5, 7901011-7901011.	1.0	29
14	Optimization and Characterization of Rare-Earth-Doped Photonic-Crystal-Fiber Amplifier Using Genetic Algorithm. Journal of Lightwave Technology, 2007, 25, 2135-2142.	2.7	28
15	Color control through plasmonic metal gratings. Applied Physics Letters, 2012, 100, .	1.5	28
16	Optically transparent wideband CVD graphene-based microwave antennas. Applied Physics Letters, 2018, 112, .	1.5	26
17	Design of Er <sup>3+</sup> doped SiO <sub>2</sub> /TiO <sub>2</sub> planar waveguide amplifier. Journal of Non-Crystalline Solids, 2003, 322, 278-283.	1.5	26
18	Design of Planar Optic Sensors for Hydrocarbon Detection. Optical and Quantum Electronics, 2004, 36, 507-526.	1.5	26

#	ARTICLE	IF	CITATIONS
19	Tunability of Photonic Band Gap Notch Filters. IEEE Nanotechnology Magazine, 2008, 7, 273-284.	1.1	24
20	Gain-assisted extraordinary optical transmission through periodic arrays of subwavelength apertures. New Journal of Physics, 2012, 14, 013020.	1.2	23
21	Refinement of Er <sup>3+</sup> -doped hole-assisted optical fiber amplifier. Optics Express, 2005, 13, 9970.	1.7	22
22	Second harmonic generation from nanoslits in metal substrates: applications to palladium-based H <sub>2</sub> sensor. Journal of Nanophotonics, 2008, 2, 021851.	0.4	21
23	Plasmonic bandgap formation in two-dimensional periodic arrangements of gold patches with subwavelength gaps. Optics Letters, 2011, 36, 903.	1.7	21
24	Experimental surface-enhanced Raman scattering response of two-dimensional finite arrays of gold nanopatches. Applied Physics Letters, 2012, 101, . <a href="https://doi.org/10.1063/1.3685700" data-bbox="80 350 350 415">https://doi.org/10.1063/1.3685700</a>	1.5	21
25	<a href="https://doi.org/10.1063/1.3685700" data-bbox="80 350 350 415">https://doi.org/10.1063/1.3685700</a> item_number_type='arNumber'&gt;4429299&/item_number&gt; &/publisher_item&gt; &/pub_date&gt; &/pub_date&gt;10.1063/1.3685700</pub_date&gt;	1.1	20
26	Compact design of photonic crystal ring resonator 2Å–2 routers as building blocks for photonic networks on chip. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 517.	0.9	20
27	Diamond detectors for the TOTEM timing upgrade. Journal of Instrumentation, 2017, 12, P03007-P03007.	0.5	20
28	Tapered photonic bandgap microstrip lowpass filters: design and realisation. IET Microwaves Antennas and Propagation, 2003, 150, 459.	1.2	19
29	Fabrication of doubly resonant plasmonic nanopatch arrays on graphene. Applied Physics Letters, 2013, 102, 231111.	1.5	19
30	Array of plasmonic Vivaldi antennas coupled to silicon waveguides for wireless networks through on-chip optical technology - WiNOT. Optics Express, 2018, 26, 30267.	1.7	19
31	Design of double-clad erbium-doped holey fiber amplifier. Journal of Non-Crystalline Solids, 2005, 351, 1840-1845.	1.5	17
32	High sensitivity photonic crystal pressure sensor. Journal of the European Optical Society-Rapid Publications, 2007, 2, .	0.9	17
33	Controlled reflectivities in self-collimating mesoscopic photonic crystal. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 355.	0.9	17
34	Enhancement and inhibition of second-harmonic generation and absorption in a negative index cavity. Optics Letters, 2007, 32, 265.	1.7	16
35	Asymmetric hybrid double dielectric loaded plasmonic waveguides for sensing applications. Sensors and Actuators B: Chemical, 2013, 186, 148-155.	4.0	16
36	Meander microstrip photonic bandgap filter using a Kaiser tapering window. Electronics Letters, 2001, 37, 1165.	0.5	15

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37	Finite Difference Time Domain Modeling of Light Amplification in Active Photonic Band Gap Structures. Progress in Electromagnetics Research, 2003, 39, 299-339.	1.6	15
38	Design and fabrication of active and passive photonic crystal resonators. Microelectronic Engineering, 2006, 83, 1823-1825.	1.1	15
39	Study of gain in photonic bandgap active InP waveguides. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 2414.	0.9	15
40	Equalization in photonic bandgap multiwavelength filters by the Newton binomial distribution. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1668.	0.9	15
41	Active InGaAsP/InP Photonic Bandgap Waveguides for Wavelength-Selective Switching. IEEE Journal of Quantum Electronics, 2011, 47, 172-181.	1.0	15
42	Enhancement of Extraordinary Optical Transmission in a Double Heterostructure Plasmonic Bandgap Cavity. Plasmonics, 2011, 6, 469-476.	1.8	15
43	Wavelength selective switching in dilute nitrides multi quantum well photonic band gap waveguides. Physica Status Solidi (B): Basic Research, 2011, 248, 1212-1215.	0.7	15
44	Vertical link solutions for multilayer optical-networks-on-chip topologies. Optical and Quantum Electronics, 2014, 46, 385-396.	1.5	15
45	Ray Tracing Modeling of Electromagnetic Propagation for On-Chip Wireless Optical Communications. Journal of Low Power Electronics and Applications, 2018, 8, 39.	1.3	15
46	Infiltrated Liquid Crystal Photonic Bandgap Devices for Switching and Tunable Filtering. Fiber and Integrated Optics, 2003, 22, 161-172.	1.7	14
47	Theoretical analysis of a palladium-based one-dimensional metallo-dielectric photonic band gap structure for applications to H2 sensors. Journal of Applied Physics, 2008, 103, .	1.1	14
48	Numerical analysis of the coupling mechanism in long-range plasmonic couplers at 155Å¼m. Optics Letters, 2013, 38, 46.	1.7	14
49	Gain and phase control in a graphene-loaded reconfigurable antenna. Applied Physics Letters, 2019, 115, .	1.5	14
50	Enhanced transmission and second harmonic generation from subwavelength slits on metal substrates. Proceedings of SPIE, 2008, , .	0.8	13
51	Time domain analysis of optical amplification in Er3+ doped SiO2-TiO2 planar waveguide. Optics Express, 2005, 13, 4683.	1.7	12
52	Active Photonic Band-Gap Switch Based on GaInNAs Multiquantum Well. IEEE Photonics Journal, 2012, 4, 1936-1946.	1.0	12
53	ACTIVE WDM FILTER ON DILUTE NITRIDE QUANTUM WELL PHOTONIC BAND GAP WAVEGUIDE. Progress in Electromagnetics Research Letters, 2012, 35, 37-49.	0.4	12
54	Multi-Path Propagation in On-Chip Optical Wireless Links. IEEE Photonics Technology Letters, 2020, 32, 1101-1104.	1.3	12

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55	Design of reconfigurable on-chip wireless interconnections through Optical Phased Arrays. Optics Express, 2021, 29, 31212.	1.7	12
56	Title is missing!. Optical and Quantum Electronics, 2003, 35, 629-640.	1.5	11
57	Multi-Level Analysis of On-Chip Optical Wireless Links. Applied Sciences (Switzerland), 2020, 10, 196.	1.3	11
58	Propagation characteristics of nonlinear graded-index optical waveguides. Journal of the Optical Society of America B: Optical Physics, 1993, 10, 1565.	0.9	10
59	Characterization of thin indium tin oxide films deposited by pulsed XeCl laser ablation. Journal Physics D: Applied Physics, 2001, 34, 2606-2609.	1.3	10
60	Design of cladding pumped microstructured fiber amplifier. Optical Materials, 2006, 28, 1243-1246.	1.7	10
61	Design of an optical sensor array for hydrocarbon monitoring. Optical and Quantum Electronics, 2009, 41, 55-68.	1.5	10
62	WDM PERFORMANCES OF TWO- AND THREE-WAVEGUIDE MACH-ZEHNDER SWITCHES ASSEMBLED INTO 4X4 MATRIX ROUTER. Progress in Electromagnetics Research Letters, 2013, 38, 1-16.	0.4	10
63	Label-Free $\text{Si}_3\text{N}_4$ Photonic Crystal Based Immunosensors for Diagnostic Applications. IEEE Photonics Journal, 2014, 6, 1-7.	1.0	10
64	Stable planar mesoscopic photonic crystal cavities. Optics Letters, 2014, 39, 4223.	1.7	10
65	Double Vivaldi antenna for wireless optical networks on chip. Optical and Quantum Electronics, 2018, 50, 1.	1.5	10
66	Leaky mode propagation in planar multilayer birefringent waveguides: longitudinal dielectric tensor configuration. Journal of Lightwave Technology, 1994, 12, 453-462.	2.7	9
67	Effects of thermal annealing on the optical characteristics of $\text{K}^+\text{Na}^+$ waveguides. Applied Optics, 1998, 37, 2346.	2.1	9
68	Performance enhancement of nonlinear lithium niobate couplers via double titanium and magnesium diffusion. Physica E: Low-Dimensional Systems and Nanostructures, 1999, 5, 84-97.	1.3	9
69	Design of double-clad ytterbium-doped microstructured fibre laser. Applied Surface Science, 2005, 248, 499-502.	3.1	9
70	Leaky mode propagation in planar multi-layer inhomogeneous birefringent waveguides: polar dielectric tensor configuration. Journal Physics D: Applied Physics, 1992, 25, 1172-1181.	1.3	8
71	Design of silica-based photonic crystal fiber for biosensing applications. Journal of Non-Crystalline Solids, 2009, 355, 1163-1166.	1.5	8
72	Efficient plasmonic nanostructures for thin film solar cells. , 2010, , .		8

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73	Modification of the scattering of silver nanoparticles induced by Fabry-Pérot resonances rising from a finite Si layer. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 015004.	1.0	8
74	Plasmonic Bandgaps in 1D Arrays of Slits on Metal Layers Excited by Out-of-Plane Sources. <i>International Journal of Optics</i> , 2012, 2012, 1-12.	0.6	8
75	Numerical and Experimental Analysis of On-Chip Optical Wireless Links in Presence of Obstacles. <i>IEEE Photonics Journal</i> , 2021, 13, 1-11.	1.0	8
76	Exact analysis of cascaded second-order nonlinearity in rotated Ti:LiNbO <sub>3</sub> Couplers. <i>Optical and Quantum Electronics</i> , 1999, 31, 655-674.	1.5	7
77	Propagation Modes in Periodically Poled Lithium Niobate Waveguides Exploiting Cascaded Second Order Nonlinearity. <i>Fiber and Integrated Optics</i> , 2001, 20, 347-365.	1.7	7
78	Compact tapered photonic bandgap microstrip lowpass filter. <i>Electronics Letters</i> , 2002, 38, 1107.	0.5	7
79	Title is missing!. <i>Optical and Quantum Electronics</i> , 2003, 35, 47-68.	1.5	7
80	Optimisation of tipping curve calibration of microwave radiometer. <i>Electronics Letters</i> , 2003, 39, 905.	0.5	7
81	Enhanced light extraction in Er <sup>3+</sup> doped SiO <sub>2</sub> /TiO <sub>2</sub> microcavity embedded in one-dimensional photonic crystal. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 3823-3828.	1.5	7
82	Photonic Crystal Sensors. , 2006, , .		7
83	Field localization in Bragg waveguide assisted by metal layers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 703.	0.9	7
84	Surface-enhanced Raman scattering from finite arrays of gold nano-patches. <i>Journal of Applied Physics</i> , 2013, 113, 013103.	1.1	7
85	Full optical confinement in 1D mesoscopic photonic crystal-based microcavities: an experimental demonstration. <i>Optics Express</i> , 2017, 25, 28288.	1.7	7
86	Amplitude and phase modulation in microwave ring resonators by doped CVD graphene. <i>Nanotechnology</i> , 2018, 29, 325201.	1.3	7
87	Dielectric and Plasmonic Vivaldi Antennas for On-Chip Wireless Communication. , 2019, , .		7
88	Comparison Between the Performance of Ti:LiNbO <sub>3</sub> and H:LiNbO <sub>3</sub> Rotated Optical Axis Waveguides - Summary. <i>Journal of Electromagnetic Waves and Applications</i> , 1997, 11, 547-559.	1.0	6
89	Design of an Ultrashort Directional Coupler With an SSFLC Coupling Layer. <i>Molecular Crystals and Liquid Crystals</i> , 1998, 320, 355-364.	0.3	6
90	A Continuous Varying Impedance Passband Microstrip Filter Exploiting a Butterfly Wing Shape. <i>Journal of Electromagnetic Waves and Applications</i> , 2005, 19, 1145-1156.	1.0	5

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91	Design of a Dielectric Applicator for Microwave Heating. Journal of Microwave Power and Electromagnetic Energy, 2008, 43, 4-12.	0.4	5
92	Localized surface plasmon resonances in gold nano-patches on a gallium nitride substrate. Nanotechnology, 2012, 23, 455709.	1.3	5
93	Generic Wavelength-routed Optical Router (GWOR) based on grating-assisted vertical couplers for multilayer optical networks. Optics Communications, 2016, 366, 99-106.	1.0	5
94	Design and fabrication of praseodymium-doped optical waveguides. , 2002, 4645, 174.		4
95	Electromagnetic bandgap phased array antenna controlled by piezoelectric transducer. Electronics Letters, 2003, 39, 1028.	0.5	4
96	Grounded dielectric slab finite size effect on patch antenna radiation patterns. Electronics Letters, 2003, 39, 488.	0.5	4
97	Fabry-Perot microcavity sensor for H2-breath-test analysis. Journal of Applied Physics, 2007, 102, 074501.	1.1	4
98	Enhancement of the SHG efficiency in a doubly resonant 2D-photonic crystal microcavity. Optical and Quantum Electronics, 2007, 39, 353-360.	1.5	4
99	High-efficient ultra-short vertical long-range plasmonic couplers. Journal of Nanophotonics, 2012, 6, 061609.	0.4	4
100	HIGH-Q PHOTONIC CRYSTAL NANOBEAM CAVITY BASED ON A SILICON NITRIDE MEMBRANE INCORPORATING FABRICATION IMPERFECTIONS AND A LOW-INDEX MATERIAL LAYER. Progress in Electromagnetics Research B, 2012, 37, 191-204.	0.7	4
101	Photonic band gap active waveguide filters based on dilute nitrides. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 567-572.	0.8	4
102	Grating-assisted vertical couplers for signal routing in multilayer integrated optical networks. Optics Communications, 2017, 386, 6-13.	1.0	4
103	Integrated Vivaldi antennas, an enabling technology for optical wireless networks on chip. , 2018, , .		4
104	Mesoscopic self-collimation along arbitrary directions and below the light line. Optics Express, 2019, 27, 30287.	1.7	4
105	Coherent phase modulators on Ti-indiffused lithium niobate waveguides. , 1990, , .		3
106	Design and demonstration of interferometric integrated-optic sensors in Ti:LiNbO3 waveguides. Fiber and Integrated Optics, 1997, 16, 369-386.	1.7	3
107	Accurate model of In <sub>x</sub> Ga <sub>1-x</sub> As <sub>y</sub> P <sub>1-y</sub> /InP active waveguides for optimal design of switches. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2003, 16, 105-125.	1.2	3
108	FINITE DIFFERENCE TIME DOMAIN MODELING OF LIGHT AMPLIFICATION IN ACTIVE PHOTONIC BAND GAP STRUCTURES - Abstract. Journal of Electromagnetic Waves and Applications, 2003, 17, 855-857.	1.0	3

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109	Radiometric profiling of temperature using algorithm based on neural networks. Electronics Letters, 2003, 39, 1261.	0.5	3
110	Mode-Stirred Chamber For Cereal Disinfestation. Materials Research Innovations, 2004, 8, 17-22.	1.0	3
111	Active microcavity and coupled cavities in one-dimensional photonic crystal. Journal of the European Optical Society-Rapid Publications, 2007, 2, .	0.9	3
112	Improvement of the pump power coupling in double cladding photonic crystal fiber. , 2008, , .		3
113	Plasmonic nanostructures for enhanced light concentration devoted to photovoltaic applications. , 2010, , .		3
114	DESIGN AND OPTIMIZATION OF HIGH SENSITIVITY PHOTONIC INTERFEROMETRIC BIOSENSORS ON POLYMERIC WAVEGUIDES. Progress in Electromagnetics Research Letters, 2012, 33, 151-166.	0.4	3
115	2D plasmonic gold nano-patches for linear and nonlinear applications. Microelectronic Engineering, 2013, 111, 234-237.	1.1	3
116	Stable planar microcavities based on mesoscopic photonic crystals. , 2014, , .		3
117	Engineered graphene for optically transparent microwave devices. , 2017, , .		3
118	Multilayer optical routing by means of vertical directional coupler with long range surface plasmons. AIP Conference Proceedings, 2019, , .	0.3	3
119	Mathematical refinements of excitation conditions in coupled waveguides. Journal of Electromagnetic Waves and Applications, 1995, 9, 241-265.	1.0	2
120	Photonic crystal fibres. , 0, , .		2
121	Near and Medium Infrared Fiber Optic Lasers and Applications. , 2008, , .		2
122	Photonic interconnects for chip multiprocessing architectures. , 2012, , .		2
123	ELECTROMAGNETIC AND THERMAL ANALYSES OF IMPROVED GTEM CELLS FOR BIOELECTROMAGNETIC EXPERIMENTS. Progress in Electromagnetics Research, 2012, 125, 503-526.	1.6	2
124	Emission and Transmission Properties of a Doubly Resonant 3D Nanodisk Yagi-Uda Antenna for Wireless Optical Communications. Plasmonics, 2013, 8, 173-183.	1.8	2
125	Multifunctional self-collimating mesoscopic photonic crystals. , 2013, , .		2
126	Graphene for Optically Transparent Telecommunication Devices. , 2018, , .		2



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127	Design of mesoscopic self-collimating photonic crystals under oblique incidence. Optics Express, 2021, 29, 33380.	1.7	2
128	Optical Sensor based on a Mesoscopic Photonic Crystal Microcavity. , 2016, , .		2
129	Effect of Radio Channel and Antennas on Physical-Layer-Security Key Exchange. IEEE Access, 2021, 9, 162175-162189.	2.6	2
130	A Ray Tracing Tool for Propagation Modeling in Layered Media: A Case Study at the Chip Scale. IEEE Open Journal of Antennas and Propagation, 2022, 3, 249-262.	2.5	2
131	Optical Stress Sensor Made Via Ti:LiNbO <sub>3</sub> Coupler For Robotic Manipulation. , 1990, , .		1
132	Design of a Ti:LiNbO <sub>3</sub> sensor for the simultaneous measurement of stress and temperature. , 1993, 2101, 340.		1
133	Switching elements based on the spatial optical soliton propagation. , 1993, , .		1
134	Refined modeling of traveling-wave Ti:LiNbO <sub>3</sub> channel waveguide modulator. Fiber and Integrated Optics, 1995, 14, 141-157.	1.7	1
135	Optical switching in active InGaAsP/InP directional coupler. , 0, , .		1
136	Modeling of Er <sup>3+</sup> -doped SiO <sub>2</sub> -TiO <sub>2</sub> planar amplifier. , 2002, , .		1
137	Design of praseodymium-doped optical waveguides. Optical Engineering, 2003, 42, 765.	0.5	1
138	Tunability effects in photonic band gap structures infiltrated with liquid crystals. , 2003, , .		1
139	Second order nonlinear interactions in periodic waveguides. , 0, , .		1
140	Wide-band optical field concentrator for low-index core propagation. Journal of the European Optical Society-Rapid Publications, 2006, 1, .	0.9	1
141	Microstructured Optical Fiber Sensors. , 2007, , .		1
142	Integrated optical sensor for environment monitoring. , 2007, , .		1
143	A Doubly Resonant Photonic-Crystal Microcavity for Second-Harmonic Generation. Fiber and Integrated Optics, 2007, 26, 271-288.	1.7	1
144	Analysis of Microwave Thermal Treatment of Antique Books with Metallic Insets. Journal of Microwave Power and Electromagnetic Energy, 2007, 42, 48-60.	0.4	1

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145	Erbium-doped chalcogenide fiber ring laser for mid-IR applications. , 2009, , .		1
146	Anomalous plasmonic band gap formation in two-dimensional slit arrays with different periods. , 2011, , .		1
147	Experimental demonstration of plasmonic-grating-assisted optical biosensor. , 2012, , .		1
148	Flexible and highly sensitive optical polymeric strain gauge. , 2013, , .		1
149	Absorption and losses in one-dimensional photonic crystal perfect absorber incorporating a monolayer graphene. , 2014, , .		1
150	2D photonic crystal membranes for optical biosensors. , 2014, , .		1
151	Wavelength routers for multilayer integrated optical networks on chip. , 2015, , .		1
152	Graphene-based optical absorbers. , 2015, , .		1
153	Graphene-based devices: A platform for high frequency applications?. , 2016, , .		1
154	On-chip Wireless Optical Communication Through Plasmonic Nanoantennas. , 2018, , .		1
155	Ray Tracing Channel Modeling for Optical Wireless Networks On-Chip. , 2021, , .		1
156	<title>All-optical $\text{Ti:LiNbO}_3$ waveguide switch</title>. , 1991, , .		1
157	Design of couplers based on cascaded second-order nonlinearity taking into account hybrid propagation. , 0, , .		0
158	<title>Integrated optics displacement sensor</title>. , 1991, , .		0
159	<title>Integrated optics temperature sensor</title>. , 1991, , .		0
160	<title>Design and simulation of optical switches on nonlinear glasses</title>. , 1994, 2150, 173.		0
161	Migration of guided and leaky modes in rotated optical axis birefringent waveguides. , 1995, , .		0
162	Design and demonstration of a vertical SSFLC coupler switch. , 0, , .		0

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163	A new structure for a six port reflectometer by using a five port ring. , 0, , .		0
164	HEMT statistical modeling using Monte Carlo method combined with Principal Components Analysis. , 0, , .		0
165	Genetic algorithm application for RASS-wind profiler data processing in remote sensing. , 0, , .		0
166	Lithium niobate integrated optical devices. , 0, , .		0
167	Optical amplification for communication systems. , 0, , .		0
168	Two-dimensional photonic crystal couplers with defect coupling region for wavelength division multi/demultiplexing. , 0, , .		0
169	Design and fabrication of APE - PPLN waveguides for temperature. , 2003, , .		0
170	Light amplification in active photonic band gap structures. , 0, , .		0
171	Photonic band gap wavelength multiplexer-demultiplexer. , 0, , .		0
172	Photonic Crystal Microcavity Amplifier. , 2006, , .		0
173	Multi-monopole model of man for SAR evaluations. , 2006, , .		0
174	Temperature sensing in E.M.D. environment with periodically poled lithium niobate devices. , 2006, 6183, 220.		0
175	Genetic Algorithms in Design and Characterization of Rare Earth Doped Fiber Amplifiers. , 2006, , .		0
176	PBG chirped waveguide for efficient signal routing. , 2007, , .		0
177	Photonic Crystal Assisted Polymeric Optical Field Concentrator. , 2007, , .		0
178	Optimized design of gigahertz transverse electromagnetic cells for dosimetric experiments. Radio Science, 2007, 42, n/a-n/a.	0.8	0
179	Effect of Gain Saturation in InP-Photonic Band Gap Active Waveguides. , 2008, , .		0
180	Laser sources based on rare earth doped glasses: Recent strategies. , 2009, , .		0

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181	Field enhancement in a photonic band gap cavity assisted by metal grooves. , 2009, , .		0
182	Plasmons on metal layers embedded in dielectric PBG cavity. , 2009, , .		0
183	Near and medium infrared optical fiber lasers and emerging applications. , 2010, , .		0
184	Analysis and design of novel photonic active devices based on dilute nitrides. , 2011, , .		0
185	Novel Plasmonic Bio-Sensing System Based on Two-Dimensional Gold Patch Arrays for Linear and Nonlinear Regimes. Advances in Science and Technology, 2012, 81, 15-19.	0.2	0
186	Nonlinear response of 2D plasmonic gold patches for SERS applications. , 2012, , .		0
187	Photonic components for signal routing in optical networks on chip. , 2013, , .		0
188	Graphene assisted nanostructures. , 2013, , .		0
189	Graphene-based photonic nanostructures for linear and nonlinear devices. , 2014, , .		0
190	Photonic crystal based immunosensor for clinical diagnosis. , 2014, , .		0
191	Thermal performance of photonic crystal waveguiding devices based on GaInNAs/GaInAs quantum-wells. , 2014, , .		0
192	TEMPERATURE PERFORMANCE OF GAINNAS-BASED PHOTONIC CRYSTAL WAVEGUIDE MODULATORS. Progress in Electromagnetics Research M, 2016, 47, 201-213.	0.5	0
193	Full optical confinement in 1D Mesoscopic Photonic Crystal-based microcavities: A preliminary experimental demonstration. , 2016, , .		0
194	Coupling between Si-waveguides and plasmonic antennas for optical networks on chip. , 2017, , .		0
195	On-Chip Wireless Optical Communication: From Antenna Design to Channel Modelling. , 2018, , .		0
196	Design of mesoscopic photonic crystal waveguides. Journal of Engineering, 2019, 2019, 4628-4631.	0.6	0
197	Design of optic sensor for hydrocarbon detection. , 2003, , .		0
198	Optical trapping in 1D mesoscopic photonic crystal microcavities. , 2018, , .		0

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199	Reconfigurable on-chip wireless interconnections through optical phased arrays (Invited). , 2021, , .		0