

Alejandro Martinez

List of Publications by Year in descending order

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197
papers

4,982
citations

87888

38
h-index

110387

64
g-index

199
all docs

199
docs citations

199
times ranked

4142
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-Field Interference for the Unidirectional Excitation of Electromagnetic Guided Modes. <i>Science</i> , 2013, 340, 328-330.	12.6	571
2	Ultrafast All-Optical Switching in a Silicon-Nanocrystal-Based Silicon Slot Waveguide at Telecom Wavelengths. <i>Nano Letters</i> , 2010, 10, 1506-1511.	9.1	218
3	Lateral forces on circularly polarizable particles near a surface. <i>Nature Communications</i> , 2015, 6, 8799.	12.8	159
4	Low-Loss Multilayered Metamaterial Exhibiting a Negative Index of Refraction at Visible Wavelengths. <i>Physical Review Letters</i> , 2011, 106, 067402.	7.8	158
5	Role of surface plasmon polaritons on optical transmission through double layer metallic hole arrays. <i>Physical Review B</i> , 2009, 79, .	3.2	138
6	A one-dimensional optomechanical crystal with a complete phononic band gap. <i>Nature Communications</i> , 2014, 5, 4452.	12.8	138
7	All-optical switching structure based on a photonic crystal directional coupler. <i>Optics Express</i> , 2004, 12, 161.	3.4	126
8	Simultaneous existence of phononic and photonic band gaps in periodic crystal slabs. <i>Optics Express</i> , 2010, 18, 14301.	3.4	117
9	Design of Silicon-Based Slot Waveguide Configurations for Optimum Nonlinear Performance. <i>Journal of Lightwave Technology</i> , 2007, 25, 1298-1305.	4.6	115
10	Resolving Light Handedness with an on-Chip Silicon Microdisk. <i>ACS Photonics</i> , 2014, 1, 762-767.	6.6	108
11	Ultrashort 2-D photonic crystal directional couplers. <i>IEEE Photonics Technology Letters</i> , 2003, 15, 694-696.	2.5	106
12	Simultaneous guidance of slow photons and slow acoustic phonons in silicon photonic crystal slabs. <i>Optics Express</i> , 2011, 19, 9690.	3.4	83
13	Modeling light-sound interaction in nanoscale cavities and waveguides. <i>Nanophotonics</i> , 2014, 3, 413-440.	6.0	82
14	Double-negative polarization-independent fishnet metamaterial in the visible spectrum. <i>Optics Letters</i> , 2009, 34, 1603.	3.3	79
15	Linear and nonlinear optical properties of Si nanocrystals in SiO ₂ deposited by plasma-enhanced chemical-vapor deposition. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	78
16	Nonlinear dynamics and chaos in an optomechanical beam. <i>Nature Communications</i> , 2017, 8, 14965.	12.8	75
17	On-Chip Optimal Stokes Nanopolarimetry Based on Spin-Orbit Interaction of Light. <i>Nano Letters</i> , 2017, 17, 3139-3144.	9.1	71
18	Dual phononic and photonic band gaps in a periodic array of pillars deposited on a thin plate. <i>Physical Review B</i> , 2010, 82, .	3.2	65

#	ARTICLE	IF	CITATIONS
19	Continuous-wave frequency upconversion with a molecular optomechanical nanocavity. <i>Science</i> , 2021, 374, 1264-1267.	12.6	63
20	Detecting mid-infrared light by molecular frequency upconversion in dual-wavelength nanoantennas. <i>Science</i> , 2021, 374, 1268-1271.	12.6	61
21	Simultaneous baseband and RF optical modulation scheme for feeding wireless and wireline heterogeneous access networks. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2001, 49, 2018-2024.	4.6	60
22	Analysis of Hybrid Dielectric Plasmonic Waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008, 14, 1496-1501.	2.9	59
23	Mode matching technique for highly efficient coupling between dielectric waveguides and planar photonic crystal circuits. <i>Optics Express</i> , 2002, 10, 1391.	3.4	54
24	Experimental and theoretical analysis of the self-focusing of light by a photonic crystal lens. <i>Physical Review B</i> , 2004, 69, .	3.2	54
25	Optical Chirality in Dispersive and Lossy Media. <i>Physical Review Letters</i> , 2018, 121, 043901.	7.8	54
26	Highly-sensitive chemical detection in the infrared regime using plasmonic gold nanocrosses. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	51
27	Squeezing and expanding light without reflections via transformation optics. <i>Optics Express</i> , 2011, 19, 3562.	3.4	51
28	Mach-Zehnder interferometer employing coupled-resonator optical waveguides. <i>Optics Letters</i> , 2003, 28, 405.	3.3	50
29	Band gaps and cavity modes in dual phononic and photonic strip waveguides. <i>AIP Advances</i> , 2011, 1, .	1.3	48
30	Analysis of optomechanical coupling in two-dimensional square lattice phononic crystal slab cavities. <i>Physical Review B</i> , 2013, 88, .	3.2	48
31	Magnetic Hot Spots in Closely Spaced Thick Gold Nanorings. <i>Nano Letters</i> , 2013, 13, 2654-2661.	9.1	48
32	Optomechanic interaction in a corrugated phononic nanobeam cavity. <i>Physical Review B</i> , 2014, 89, .	3.2	46
33	Transverse Spin and Spin-Orbit Coupling in Silicon Waveguides. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 1561-1564.	2.5	45
34	Synchronization of Optomechanical Nanobeams by Mechanical Interaction. <i>Physical Review Letters</i> , 2019, 123, 017402.	7.8	44
35	Group velocity and dispersion model of coupled-cavity waveguides in photonic crystals. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 147.	1.5	43
36	Negative refraction in two-dimensional photonic crystals: Role of lattice orientation and interface termination. <i>Physical Review B</i> , 2005, 71, .	3.2	43

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37	Engineering antenna radiation patterns via quasi-conformal mappings. <i>Optics Express</i> , 2011, 19, 23743.	3.4	41
38	Analogue Transformations in Physics and their Application to Acoustics. <i>Scientific Reports</i> , 2013, 3, 2009.	3.3	39
39	A self-stabilized coherent phonon source driven by optical forces. <i>Scientific Reports</i> , 2015, 5, 15733.	3.3	39
40	Universal method for the synthesis of arbitrary polarization states radiated by a nanoantenna. <i>Laser and Photonics Reviews</i> , 2014, 8, L27.	8.7	37
41	Study of asymmetric silicon cross-slot waveguides for polarization diversity schemes. <i>Applied Optics</i> , 2009, 48, 2693.	2.1	36
42	Exploiting metamaterials, plasmonics and nanoantennas concepts in silicon photonics. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 123001.	2.2	36
43	Polarimetry enabled by nanophotonics. <i>Science</i> , 2018, 362, 750-751.	12.6	36
44	Mach-Zehnder interferometers in photonic crystals. <i>Optical and Quantum Electronics</i> , 2005, 37, 77-93.	3.3	32
45	Dispersion relation of coupled-resonator acoustic waveguides formed by defect cavities in a phononic crystal. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 475301.	2.8	32
46	Negative refractive index metamaterials aided by extraordinary optical transmission. <i>Optics Express</i> , 2009, 17, 6026.	3.4	31
47	Sorting linearly polarized photons with a single scatterer. <i>Optics Letters</i> , 2014, 39, 1394.	3.3	31
48	Interfering Plasmons in Coupled Nanoresonators to Boost Light Localization and SERS. <i>Nano Letters</i> , 2021, 21, 2512-2518.	9.1	31
49	Floquet Phonon Lasing in Multimode Optomechanical Systems. <i>Physical Review Letters</i> , 2021, 127, 073601.	7.8	31
50	Experimental measurement of plasmonic nanostructures embedded in silicon waveguide gaps. <i>Optics Express</i> , 2016, 24, 9592.	3.4	30
51	1D periodic structures for slow-wave induced non-linearity enhancement. <i>Optics Express</i> , 2008, 16, 3146.	3.4	27
52	Effect of loss on the dispersion relation of photonic and phononic crystals. <i>Physical Review B</i> , 2013, 88, .	3.2	27
53	Microwave oscillator and frequency comb in a silicon optomechanical cavity with a full phononic bandgap. <i>Nanophotonics</i> , 2020, 9, 3535-3544.	6.0	27
54	Design of single-mode waveguides for enhanced light-sound interaction in honeycomb-lattice silicon slabs. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	25

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55	Intrinsic losses of coupled-cavity waveguides in planar-photonic crystals. <i>Optics Letters</i> , 2007, 32, 635.	3.3	24
56	FWM in silicon nanocrystal-based sandwiched slot waveguides. <i>Optics Communications</i> , 2010, 283, 435-437.	2.1	24
57	Compact Dual-Band Terahertz Quarter-Wave Plate Metasurface. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1679-1682.	2.5	24
58	Hybrid photonic-plasmonic cavities based on the nanoparticle-on-a-mirror configuration. <i>Photonics Research</i> , 2021, 9, 2398.	7.0	24
59	Microstrip multistage coupled ring bandpass filters using photonic bandgap structures for harmonic suppression. <i>Electronics Letters</i> , 2003, 39, 68.	1.0	22
60	Analysis of wave propagation in a two-dimensional photonic crystal with negative index of refraction: plane wave decomposition of the Bloch modes. <i>Optics Express</i> , 2005, 13, 4160.	3.4	22
61	Low-loss single-layer metamaterial with negative index of refraction at visible wavelengths. <i>Optics Express</i> , 2007, 15, 9320.	3.4	22
62	Terahertz Metamaterials on Flexible Polypropylene Substrate. <i>Plasmonics</i> , 2014, 9, 1143-1147.	3.4	22
63	Experimental demonstration of photonic crystal directional coupler at microwave frequencies. <i>Electronics Letters</i> , 2003, 39, 455.	1.0	21
64	Analysis of wave focusing inside a negative-index photonic-crystal slab. <i>Optics Express</i> , 2005, 13, 2858.	3.4	21
65	Analogue of the Quantum Hanle Effect and Polarization Conversion in Non-Hermitian Plasmonic Metamaterials. <i>Nano Letters</i> , 2012, 12, 6309-6314.	9.1	21
66	Metamaterial Platforms for Spintronic Modulation of Mid-Infrared Response under Very Weak Magnetic Field. <i>ACS Photonics</i> , 2018, 5, 3956-3961.	6.6	20
67	Radiationless anapole states in on-chip photonics. <i>Light: Science and Applications</i> , 2021, 10, 204.	16.6	20
68	Photonic-crystal 180° power splitter based on coupled-cavity waveguides. <i>Applied Physics Letters</i> , 2003, 83, 3033-3035.	3.3	19
69	Experimental demonstration of dispersion-tolerant 155-Mb/s BPSK data transmission at 40 GHz using an optical coherent harmonic generation technique. <i>IEEE Photonics Technology Letters</i> , 2003, 15, 772-774.	2.5	18
70	Generation of highly directional beam by k-space filtering using a metamaterial flat slab with a small negative index of refraction. <i>Applied Physics Letters</i> , 2006, 89, 131111.	3.3	18
71	Dynamical back-action at 5.5 GHz in a corrugated optomechanical beam. <i>AIP Advances</i> , 2014, 4, .	1.3	18
72	Coherent Control of a Plasmonic Nanoantenna Integrated on a Silicon Chip. <i>ACS Photonics</i> , 2018, 5, 2712-2717.	6.6	18

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73	Near-Field Directionality Beyond the Dipole Approximation: Electric Quadrupole and Higher-Order Multipole Angular Spectra. <i>Physical Review Applied</i> , 2019, 12, .	3.8	18
74	Analysis of adiabatic coupling between photonic crystal single-line-defect and coupled-resonator optical waveguides. <i>Optics Letters</i> , 2003, 28, 1903.	3.3	17
75	Demonstration of near infrared gas sensing using gold nanodisks on functionalized silicon. <i>Optics Express</i> , 2011, 19, 7664.	3.4	17
76	Numerical Analysis of All-Optical Switching Based on a 2-D Nonlinear Photonic Crystal Directional Coupler. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2004, 10, 1101-1106.	2.9	16
77	Direct photonic generation of electrical vector modulations at microwave/millimeter-wave frequencies. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 1947-1949.	2.5	16
78	Full-duplex DOCSIS/WirelessDOCSIS fiber-radio network employing packaged AFPM-based base-stations. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 406-408.	2.5	16
79	Metamaterials for optical security. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	15
80	Fano resonances and electromagnetically induced transparency in silicon waveguides loaded with plasmonic nanoresonators. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 025003.	2.2	15
81	SERS Detection via Individual Bowtie Nanoantennas Integrated in Si ₃ N ₄ Waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-6.	2.9	15
82	Pulse propagation in adiabatically coupled photonic crystal coupled cavity waveguides. <i>Journal of Applied Physics</i> , 2005, 97, 013101.	2.5	14
83	Coaxial plasmonic waveguide array as a negative-index metamaterial. <i>Optics Letters</i> , 2009, 34, 3325.	3.3	14
84	Space-time transformation acoustics. <i>Wave Motion</i> , 2014, 51, 785-797.	2.0	14
85	Diffusive-light invisibility cloak for transient illumination. <i>Physical Review A</i> , 2016, 94, .	2.5	14
86	Modeling high-order plasmon resonances of a U-shaped nanowire used to build a negative-index metamaterial. <i>Physical Review B</i> , 2009, 79, .	3.2	13
87	Room-Temperature Silicon Platform for GHz-Frequency Nanoelectro-Opto-Mechanical Systems. <i>ACS Photonics</i> , 2022, 9, 413-419.	6.6	13
88	Wavelength Demultiplexing Structure Based on Coupled-Cavity Waveguides in Photonic Crystals. <i>Fiber and Integrated Optics</i> , 2003, 22, 151-160.	2.5	12
89	Dispersion-Tolerant Transmission of QPSK and QAM Signals Simultaneously Modulated at 1 and 38 GHz Over a Hybrid Fiber-Radio Link. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 659-661.	2.5	12
90	Multiple extraordinary optical transmission peaks from evanescent coupling in perforated metal plates surrounded by dielectrics. <i>Optics Express</i> , 2010, 18, 7893.	3.4	12

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91	Mid-infrared plasmonic inductors: Enhancing inductance with meandering lines. Scientific Reports, 2015, 4, 3592.	3.3	12
92	Injection locking in an optomechanical coherent phonon source. Nanophotonics, 2021, 10, 1319-1327.	6.0	12
93	High efficiency fiber coupling to silicon sandwiched slot waveguides. Optics Communications, 2008, 281, 5173-5176.	2.1	11
94	Optical modulation of coherent phonon emission in optomechanical cavities. APL Photonics, 2018, 3, 126102.	5.7	11
95	Nanocrystalline silicon optomechanical cavities. Optics Express, 2018, 26, 9829.	3.4	11
96	Performance improvement of a silicon nitride ring resonator biosensor operated in the TM mode at 1310nm. Biomedical Optics Express, 2021, 12, 7244.	2.9	11
97	Positive phase evolution of waves propagating along a photonic crystal with negative index of refraction. Optics Express, 2006, 14, 9805.	3.4	10
98	Full-Duplex DOCSIS/WirelessDOCSIS Fiber-Radio Network Employing Packaged AFPMs as Optical/Electrical Transducers. Journal of Lightwave Technology, 2007, 25, 673-684.	4.6	10
99	Midinfrared filters based on extraordinary optical transmission through subwavelength structured gold films. Journal of Applied Physics, 2009, 106, .	2.5	10
100	Full three-dimensional isotropic transformation media. New Journal of Physics, 2014, 16, 023030.	2.9	10
101	Toward Chiral Sensing and Spectroscopy Enabled by All-Dielectric Integrated Photonic Waveguides. Laser and Photonics Reviews, 2020, 14, 1900422.	8.7	10
102	Analogue transformation acoustics and the compression of spacetime. Photonics and Nanostructures - Fundamentals and Applications, 2014, 12, 312-318.	2.0	9
103	High-Frequency Mechanical Excitation of a Silicon Nanostring with Piezoelectric Aluminum Nitride Layers. Physical Review Applied, 2020, 14, .	3.8	9
104	Group velocity dispersion in horizontal slot waveguides filled by Si nanocrystals. , 2008, , .		8
105	Strong magnetic resonance of coupled aluminum nanodisks on top of a silicon waveguide. , 2012, , .		8
106	Theoretical study about the gain in indirect bandgap semiconductor optical cavities. Physica B: Condensed Matter, 2012, 407, 2044-2049.	2.7	8
107	Planar photonic crystal structure with inherently single-mode waveguides. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 2131.	1.5	7
108	All-Optical MZI XOR Logic Gate based on Si Slot Waveguides Filled by Si-nc Embedded in SiO2. , 2006, , .		7

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109	Radio-over-Fiber Architecture for Simultaneous Feeding of 5.5 and 41 GHz WiFi or WiMAX Access Networks. , 2006, , .		7
110	Numerical analysis of the performance of Mach-Zehnder interferometric logic gates enhanced with coupled nonlinear ring-resonators. Optics Express, 2007, 15, 2323.	3.4	7
111	Honeycomb Photonic Crystal Waveguides in a Suspended Silicon Slab. IEEE Photonics Technology Letters, 2012, 24, 2056-2059.	2.5	7
112	Classical emergence of intrinsic spin-orbit interaction of light at the nanoscale. Physical Review A, 2018, 97, .	2.5	7
113	Multiple-frequency photonic bandgap microstrip structures based on defects insertion. Microwave and Optical Technology Letters, 2003, 36, 479-481.	1.4	6
114	Optomechanical Modulation Spectroscopy of Bound States in the Continuum in a Dielectric Metasurface. Physical Review Applied, 2022, 17, .	3.8	6
115	Enlarging the negative-index bandwidth of optical metamaterials by hybridized plasmon resonances. Optics Letters, 2010, 35, 4205.	3.3	5
116	Optical and mechanical mode tuning in an optomechanical crystal with light-induced thermal effects. Journal of Applied Physics, 2014, 116, 093506.	2.5	5
117	Directive excitation of guided electromagnetic waves through polarization control. Physical Review B, 2014, 89, .	3.2	5
118	Vertical Engineering for Large Brillouin Gain in Unreleased Silicon-Based Waveguides. Physical Review Applied, 2021, 15, .	3.8	5
119	Photonic Frequency Conversion of OFDM Microwave Signals in a Wavelength-€Scale Optomechanical Cavity. Laser and Photonics Reviews, 2021, 15, 2100175.	8.7	5
120	Thermal Properties of Nanocrystalline Silicon Nanobeams. Advanced Functional Materials, 2022, 32, .	14.9	5
121	Enhanced excitation and readout of plasmonic cavity modes in NPoM via SiN waveguides for on-chip SERS. Optics Express, 2022, 30, 4553.	3.4	5
122	Photonic Vector Modulation Tx/Rx Architecture for Generation, Remote Delivery and Detection of M-QAM Signals. , 0, , .		4
123	Remote Delivery of DOCSIS Signals over a Hybrid Fiber Radio Link for Simultaneous Wireline and Wireless Access. , 2005, , .		4
124	Vertical grating couplers for silicon sandwiched slot waveguides. , 2008, , .		4
125	Proposal of an OADM configuration with ultra-large FSR combining ring resonators and photonic bandgap structures. Optics Communications, 2009, 282, 1771-1774.	2.1	4
126	Silicon cross-slot waveguides insensitive to polarization. , 2009, , .		4

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127	Design of waveguides in silicon photonic crystal slabs. , 2010, , .		4
128	Dual-band double-negative-index fishnet metamaterial at millimeter-waves. Optics Letters, 2011, 36, 4245.	3.3	4
129	High order standing-wave plasmon resonances in silver u-shaped nanowires. Journal of Applied Physics, 2012, 112, 103104.	2.5	4
130	Optical gain by simultaneous photon and phonon confinement in indirect bandgap semiconductor acousto-optical cavities. Optical and Quantum Electronics, 2013, 45, 1045-1056.	3.3	4
131	Transformational acoustic metamaterials based on pressure gradients. Physical Review B, 2014, 90, .	3.2	4
132	Dispersive optomechanics of supercavity modes in high-index disks. Optics Letters, 2020, 45, 5238.	3.3	4
133	Properties of nanocrystalline silicon probed by optomechanics. Nanophotonics, 2020, 9, 4819-4829.	6.0	4
134	Cadmium telluride: a silicon-compatible optical material as an alternative technology for building all-optical photonic devices. , 2008, , .		3
135	Experimental observation of intermodal dispersion in photonic crystal directional couplers. Journal of Applied Physics, 2008, 104, 123107.	2.5	3
136	Zero-bandwidth mode in a split-ring-resonator-loaded one-dimensional photonic crystal. Physical Review B, 2010, 81, .	3.2	3
137	Experimental demonstration of adiabatic coupling into SOI photonic crystal coupled-cavity waveguides. , 2005, , .		2
138	Broadening compensation for ultrashort pulses in photonic crystals. Optical and Quantum Electronics, 2005, 37, 199-211.	3.3	2
139	Photonic Vector Demodulation Architecture for Remote Detection of M-QAM Signals. , 2005, , .		2
140	Optical add-drop multiplexer with FSR higher than 140 nm using ring resonators and photonic bandgap structures. , 2008, , .		2
141	Ultrafast all-optical logic gates with silicon nanocrystal-based slot waveguides. , 2010, , .		2
142	Ultrafast nonlinear dynamics in silicon nanocrystal-based horizontal slot waveguides. , 2011, , .		2
143	PhoXonic architectures for tailoring the acousto-optic interaction. , 2011, , .		2
144	Exciting Surface Plasmons with Transformation Media. Plasmonics, 2012, 7, 701-707.	3.4	2

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145	Phoxonic crystals: tailoring the light-sound interaction at the nanoscale. , 2013, , .		2
146	Dual-baseband and RF modulation scheme for Gbit/s heterogeneous fiber-wireless access networks. Microwave and Optical Technology Letters, 2001, 30, 372-374.	1.4	1
147	Electromagnetic beaming from omnidirectional sources by inverse design. Applied Physics Letters, 2008, 92, 051105.	3.3	1
148	Experimental demonstration of waveguiding in honeycomb and square-lattice silicon photonic crystal membranes. Proceedings of SPIE, 2012, , .	0.8	1
149	Theoretical study about the relations among coefficients of stimulated emission, spontaneous emission and absorption in indirect bandgap semiconductor. Physica B: Condensed Matter, 2013, 411, 52-55.	2.7	1
150	Analogue transformation acoustics: Generalizing transformation techniques to non-form-invariant equations. , 2013, , .		1
151	Mid-infrared Plasmonic Inductors. , 2014, , .		1
152	Cavity modes and optomechanic interactions in strip waveguide. IOP Conference Series: Materials Science and Engineering, 2014, 68, 012003.	0.6	1
153	Full measurement of the stokes parameters of a light beam using on-chip silicon nanoantennas. , 2015, , .		1
154	Integration of subwavelength nanostructures in silicon waveguides: new phenomena and applications. , 2018, , .		1
155	Photonic-microwave harmonic mixers based on electroabsorption modulators. Microwave and Optical Technology Letters, 2004, 41, 361-364.	1.4	0
156	Amphoteric-like refraction in a two-dimensional photonic crystal. Applied Physics B: Lasers and Optics, 2005, 81, 301-304.	2.2	0
157	Generation of Highly-Directional Beams from Point Sources using a Negative-Index Photonic-Crystal Slab. , 2006, , .		0
158	Experimental Demonstration of Full-Duplex DOCSIS Signal Transmissions over a Wireline/Wireless-Fibre Access Network. , 2006, , .		0
159	Corrugated SOI Waveguide for Optimal Slow-Light Elements. , 2006, , .		0
160	Experimental characterization of Mach-Zehnder interferometers with coupled ring resonators in Silicon nanocrystals horizontal slot waveguides. , 2008, , .		0
161	Photonic switching on silicon: the FP6-PHOLOGIC approach. , 2008, , .		0
162	Negative index metamaterial through high-order plasmon resonances on u-shaped nanowires. , 2009, , .		0

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163	Double-negative polarization-independent fishnet metamaterial operating in the visible spectrum. , 2009, , .		0
164	Characterization of a new 90° phase shift for QAM-QPSK photonic vectorial modulators/demodulators. , 2009, , .		0
165	RF frequency transparent 90° hybrid based on silicon on insulator photonic circuit. , 2010, , .		0
166	Light compression without reflections. Proceedings of SPIE, 2010, , .	0.8	0
167	Enlarged negative effective index bandwidth from fishnet metamaterials. , 2010, , .		0
168	Strong magnetism by closely spaced gold nanohoops. , 2012, , .		0
169	Theoretical study about the gain in indirect bandgap semiconductor acousto-optical cavities with simultaneous photon and phonon confinement. , 2012, , .		0
170	Jaynes-Cummings model of an indirect gap semiconductor cavity. Proceedings of SPIE, 2012, , .	0.8	0
171	Theoretical study about the behavior of two-level systems inside of optomechanical cavity where mechanical oscillations are induced. Proceedings of SPIE, 2012, , .	0.8	0
172	Multidimensional metamaterial fluid sensor. , 2013, , .		0
173	Spatial sorting and routing of electromagnetic waves based on polarization control. , 2014, , .		0
174	Polarization synthesis and sorting with an integrated silicon nanoantenna. , 2014, , .		0
175	Resolving light spin with a silicon microdisk nanoantenna. , 2014, , .		0
176	A PhoXonic crystal: Photonic and phononic bandgaps in a 1D optomechanical crystal. , 2014, , .		0
177	Bringing metamaterials, plasmonics and nanoantennas concepts into silicon photonics. , 2015, , .		0
178	Switchable optical forces due to polarization-dependent spin-orbit coupling on particles near a surface. , 2015, , .		0
179	Embedding a plasmonic nanoantenna into a silicon waveguide gap: Simulations and experimental demonstration. , 2016, , .		0
180	Full Measurement of the Stokes Parameters Using a Subwavelength Silicon On-Chip Polarimeter. Advances in Science and Technology, 0, , .	0.2	0

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181	Self-pulsing and phonon lasing in optomechanical crystals. , 2016, , .		0
182	A subwavelength Stokes polarimeter on a silicon chip. Proceedings of SPIE, 2016, , .	0.8	0
183	Intrinsic spin-orbit coupling of light at the nanoscale in free space. , 2017, , .		0
184	Integration of magnetic plasmonic nanoantennas on a silicon chip. , 2017, , .		0
185	Transformation based diffusive-light cloak for transient illumination. , 2017, , .		0
186	Stokes nanopolarimeter based on spin-orbit interaction of light. , 2017, , .		0
187	Chiral Properties of Light in Material Systems. , 2019, , .		0
188	Theoretical Generalization of the Optical Chirality to Arbitrary Optical Media. Topics in Applied Physics, 2021, , 323-355.	0.8	0
189	Ultracompact silicon optomechanical cavities as optical upconverters of OFDM wireless signals. , 2021, , .		0
190	Optical Up/Down-conversion of OFDM Wireless Signals based on Ultracompact Silicon Optomechanical Cavities. , 2021, , .		0
191	Photonic Bandgap (PBG). , 0, , .		0
192	Extraordinary Transmission-inspired Dual-band THz Quarter-wave Plate. , 2014, , .		0
193	Chiral Properties of Light in Material Systems. , 2019, , .		0
194	In-Plane Driving of Anapole Resonances in Silicon Disks at Telecom Wavelengths. , 2020, , .		0
195	Towards Integrated Chiroptical Applications. , 2020, , .		0
196	Multimode mechanical confinement in 1D silicon optomechanical crystal cavities. , 2021, , .		0
197	Bandgap closure in 1D photonic crystals from interplay between Mie resonances. , 2021, , .		0