

Tomas Sarmiento

List of Publications by Year in descending order

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45
papers

1,637
citations

394286

19
h-index

501076

28
g-index

48
all docs

48
docs citations

48
times ranked

2509
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultralow-threshold electrically pumped quantum-dot photonic-crystal nanocavity laser. Nature Photonics, 2011, 5, 297-300.	15.6	377
2	Electrically driven subwavelength optical nanocircuits. Nature Photonics, 2014, 8, 244-249.	15.6	219
3	Enhanced high-harmonic generation from an all-dielectric metasurface. Nature Physics, 2018, 14, 1006-1010.	6.5	215
4	Ultrafast direct modulation of a single-mode photonic crystal nanocavity light-emitting diode. Nature Communications, 2011, 2, 539.	5.8	116
5	Single-Cell Photonic Nanocavity Probes. Nano Letters, 2013, 13, 4999-5005.	4.5	99
6	Nanobeam photonic crystal cavity quantum dot laser. Optics Express, 2010, 18, 8781.	1.7	96
7	Development of GaInNAsSb alloys: Growth, band structure, optical properties and applications. Physica Status Solidi (B): Basic Research, 2007, 244, 2707-2729.	0.7	57
8	Optical fiber tips functionalized with semiconductor photonic crystal cavities. Applied Physics Letters, 2011, 99, .	1.5	43
9	Complete Coherent Control of a Quantum Dot Strongly Coupled to a Nanocavity. Scientific Reports, 2016, 6, 25172.	1.6	41
10	Electrically pumped photonic crystal nanocavity light sources using a laterally doped p-i-n junction. Applied Physics Letters, 2010, 96, .	1.5	38
11	Self-homodyne measurement of a dynamic Mollow triplet in the solid state. Nature Photonics, 2016, 10, 163-166.	15.6	33
12	Antenna electrodes for controlling electroluminescence. Nature Communications, 2012, 3, 1005.	5.8	32
13	A photonic crystal cavity-optical fiber tip nanoparticle sensor for biomedical applications. Applied Physics Letters, 2012, 100, .	1.5	29
14	Nanobeam photonic crystal cavity light-emitting diodes. Applied Physics Letters, 2011, 99, 071105.	1.5	28
15	Electrically controlled modulation in a photonic crystal nanocavity. Optics Express, 2009, 17, 15409.	1.7	26
16	Deterministically charged quantum dots in photonic crystal nanoresonators for efficient spin-photon interfaces. New Journal of Physics, 2013, 15, 113056.	1.2	24
17	Electrically Driven Photonic Crystal Nanocavity Devices. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1700-1710.	1.9	23
18	Optical Gain in GaInNAs and GaInNAsSb Quantum Wells. IEEE Journal of Quantum Electronics, 2011, 47, 870-877.	1.0	20

#	ARTICLE	IF	CITATIONS
19	Tuning the photon statistics of a strongly coupled nanophotonic system. <i>Physical Review A</i> , 2017, 95, .	1.0	20
20	Self-homodyne-enabled generation of indistinguishable photons. <i>Optica</i> , 2016, 3, 931.	4.8	19
21	Time-resolved photoluminescence studies of annealed 1.3- μm GaInNAsSb quantum wells. <i>Nanoscale Research Letters</i> , 2014, 9, 81.	3.1	15
22	GaAs-based 1.53- μm GaInNAsSb vertical cavity surface emitting lasers. <i>Electronics Letters</i> , 2009, 45, 978.	0.5	11
23	Photo-oxidative tuning of individual and coupled GaAs photonic crystal cavities. <i>Optics Express</i> , 2014, 22, 15017.	1.7	11
24	Temperature dependencies of annealing behaviors of GaInNAsSb/GaNAs quantum wells for long wavelength dilute-nitride lasers. <i>Applied Physics Letters</i> , 2007, 90, 231119.	1.5	10
25	Design and growth of III-V nanowire solar cell arrays on low cost substrates. , 2010, , .		7
26	Hole-spin pumping and repumping in a p -type $\hat{\Gamma}$ -doped InAs quantum dot. <i>Physical Review B</i> , 2014, 90, .	1.1	7
27	Continuous-Wave Operation of GaAs-Based 1.5- μm GaInNAsSb VCSELs. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 1607-1610.	1.3	6
28	GaInNAs(Sb) Long-Wavelength VCSELs. <i>Springer Series in Optical Sciences</i> , 2013, , 353-377.	0.5	4
29	Nonradiative recombination in 1.56- μm GaInNAsSb/GaNAs quantum-well lasers. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	3
30	Electrically driven photonic crystal nanocavity devices. , 2012, , .		3
31	Single-cell Photonic Nanocavity Probes. , 2013, , .		2
32	InGaAs MSM photodetectors modeling using DOE analysis. , 2004, , .		1
33	Faceting and disorder in nanowire solar cell arrays. , 2010, , .		1
34	Tuning the Photon Statistics of a Strongly Coupled Nanophotonic System. , 2017, , .		1
35	GaInNAsSb/GaAs vertical cavity surface-emitting lasers (VCSELs): current challenges and techniques to realize multiple-wavelength laser arrays at 1.55 μm . <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
36	Low power consumption electrically pumped photonic crystal membrane devices. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0

#	ARTICLE	IF	CITATIONS
37	Ultra-Low Threshold and High Speed Electrically Driven Photonic Crystal Nanocavity Lasers and LEDs. , 2012, , .		0
38	Ultrafast Direct Modulation of a Single-Mode Photonic Crystal Nanocavity Light-Emitting Diode. , 2012, , .		0
39	Optical Fiber Tips Functionalized with Semiconductor Photonic Crystal Cavities. , 2012, , .		0
40	Photonic crystal nanocavity lasers and modulators. , 2012, , .		0
41	Electrically driven photonic crystal nanocavity lasers, LEDs, and modulators. Proceedings of SPIE, 2012, , .	0.8	0
42	Electrically controlled photonic crystal nanocavity sources and modulators. , 2013, , .		0
43	Ultra-low Threshold Electrically Pumped Quantum Dot Photonic Crystal Nanocavity Laser. , 2011, , .		0
44	Ultra-low Threshold Electrically Pumped Quantum Dot Photonic Crystal Nanocavity Laser. , 2011, , .		0
45	Optical Pumping of Individual Spins in Self-Assembled and Site-Controlled Quantum Dots. , 2015, , .		0