

# Yaohui Chen

## List of Publications by Year in descending order

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26  
papers

520  
citations

1040056

9  
h-index

1199594

12  
g-index

26  
all docs

26  
docs citations

26  
times ranked

553  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Compact Model for Datacom VCSEL Towards 25Gbaud and Beyond. , 2020, , .		1
2	Threshold Characteristics of Slow-Light Photonic Crystal Lasers. Physical Review Letters, 2016, 116, 063901.	7.8	59
3	Impact of slow-light enhancement on optical propagation in active semiconductor photonic-crystal waveguides. Physical Review A, 2015, 92, .	2.5	5
4	Nonreciprocal transmission in a nonlinear photonic-crystal Fano structure with broken symmetry. Laser and Photonics Reviews, 2015, 9, 241-247.	8.7	125
5	Thermal analysis of line-defect photonic crystal lasers. Optics Express, 2015, 23, 18277.	3.4	12
6	Influence of thermal effects induced by nonlinear absorption on four-wave mixing in silicon waveguides. , 2014, , .		0
7	Fano resonance control in a photonic crystal structure and its application to ultrafast switching. Applied Physics Letters, 2014, 105, .	3.3	107
8	Slow-light-enhanced gain in active photonic crystal waveguides. Nature Communications, 2014, 5, 5039.	12.8	64
9	Theory of carrier depletion and light amplification in active slow light photonic crystal waveguides. Optics Express, 2013, 21, 29392.	3.4	6
10	Modeling of gain saturation effects in active semiconductor photonic crystal waveguides. , 2012, , .		0
11	Physics and applications of slow and fast light in semiconductor optical waveguides. , 2012, , .		0
12	Modelling of active semiconductor photonic crystal waveguides and robust designs based on topology optimization. , 2011, , .		0
13	Enhancing slow- and fast-light effects in quantum dot semiconductor waveguides through ultrafast dynamics. , 2011, , .		0
14	Ultrahigh-Frequency Microwave Phase Shifts Mediated by Ultrafast Dynamics in Quantum-Dot Semiconductor Optical Amplifiers. IEEE Photonics Technology Letters, 2010, 22, 935-937.	2.5	6
15	Enhancing slow- and fast-light effects in quantum-dot semiconductor waveguides through ultrafast dynamics. Optics Letters, 2010, 35, 697.	3.3	11
16	Controlling the Speed of Light in Semiconductor Waveguides: Physics and Applications. , 2009, , .		0
17	Microwave photonics processing controlling the speed of light in semiconductor waveguides. , 2009, , .		0
18	Enhancing slow and fast light effects in quantum dot optical amplifiers through ultrafast dynamics. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
19	The role of input chirp on phase shifters based on slow and fast light effects in semiconductor optical amplifiers. Optics Express, 2009, 17, 1404.	3.4	11
20	Quantum dot waveguides: Ultrafast dynamics and applications. , 2009, , .		1
21	Slow and fast light effects in semiconductor waveguides for applications in microwave photonics. Proceedings of SPIE, 2009, , .	0.8	0
22	Compact Optically-fed Microwave True-time Delay Using Liquid Crystal Photonic Bandgap Fiber Device. , 2009, , .		1
23	Broadband Microwave Phase Shifter based on High Speed Cross Gain Modulation in Quantum Dot Semiconductor Optical Amplifiers. , 2009, , .		1
24	Enhancing light slow-down in semiconductor optical amplifiers by optical filtering. Optics Letters, 2008, 33, 1084.	3.3	72
25	Theory of Optical-Filtering Enhanced Slow and Fast Light Effects in Semiconductor Optical Waveguides. Journal of Lightwave Technology, 2008, 26, 3734-3743.	4.6	38
26	Slow and fast light effects in semiconductor waveguides for applications in microwave photonics. , 2008, , .		0