

# 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	Nonreciprocal transmission in a nonlinear photonic-crystal Fano structure with broken symmetry. <i>Laser and Photonics Reviews</i> , 2015, 9, 241-247.	8.7	125
2	Fano resonance control in a photonic crystal structure and its application to ultrafast switching. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	107
3	Enhancing light slow-down in semiconductor optical amplifiers by optical filtering. <i>Optics Letters</i> , 2008, 33, 1084.	3.3	72
4	Slow-light-enhanced gain in active photonic crystal waveguides. <i>Nature Communications</i> , 2014, 5, 5039.	12.8	64
5	Threshold Characteristics of Slow-Light Photonic Crystal Lasers. <i>Physical Review Letters</i> , 2016, 116, 063901.	7.8	59
6	Theory of Optical-Filtering Enhanced Slow and Fast Light Effects in Semiconductor Optical Waveguides. <i>Journal of Lightwave Technology</i> , 2008, 26, 3734-3743.	4.6	38
7	Thermal analysis of line-defect photonic crystal lasers. <i>Optics Express</i> , 2015, 23, 18277.	3.4	12
8	The role of input chirp on phase shifters based on slow and fast light effects in semiconductor optical amplifiers. <i>Optics Express</i> , 2009, 17, 1404.	3.4	11
9	Enhancing slow- and fast-light effects in quantum-dot semiconductor waveguides through ultrafast dynamics. <i>Optics Letters</i> , 2010, 35, 697.	3.3	11
10	Ultrahigh-Frequency Microwave Phase Shifts Mediated by Ultrafast Dynamics in Quantum-Dot Semiconductor Optical Amplifiers. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 935-937.	2.5	6
11	Theory of carrier depletion and light amplification in active slow light photonic crystal waveguides. <i>Optics Express</i> , 2013, 21, 29392.	3.4	6
12	Impact of slow-light enhancement on optical propagation in active semiconductor photonic-crystal waveguides. <i>Physical Review A</i> , 2015, 92, .	2.5	5
13	Quantum dot waveguides: Ultrafast dynamics and applications. , 2009, , .		1
14	Compact Optically-fed Microwave True-time Delay Using Liquid Crystal Photonic Bandgap Fiber Device. , 2009, , .		1
15	Broadband Microwave Phase Shifter based on High Speed Cross Gain Modulation in Quantum Dot Semiconductor Optical Amplifiers. , 2009, , .		1
16	A Compact Model for Datacom VCSEL Towards 25Gbaud and Beyond. , 2020, , .		1
17	Slow and fast light effects in semiconductor waveguides for applications in microwave photonics. , 2008, , .		0
18	Controlling the Speed of Light in Semiconductor Waveguides: Physics and Applications. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
19	Microwave photonics processing controlling the speed of light in semiconductor waveguides. , 2009, , .		0
20	Enhancing slow and fast light effects in quantum dot optical amplifiers through ultrafast dynamics. , 2009, , .		0
21	Slow and fast light effects in semiconductor waveguides for applications in microwave photonics. Proceedings of SPIE, 2009, , .	0.8	0
22	Modelling of active semiconductor photonic crystal waveguides and robust designs based on topology optimization. , 2011, , .		0
23	Enhancing slow- and fast-light effects in quantum dot semiconductor waveguides through ultrafast dynamics. , 2011, , .		0
24	Modeling of gain saturation effects in active semiconductor photonic crystal waveguides. , 2012, , .		0
25	Influence of thermal effects induced by nonlinear absorption on four-wave mixing in silicon waveguides. , 2014, , .		0
26	Physics and applications of slow and fast light in semiconductor optical waveguides. , 2012, , .		0