

Naresh Satyan

List of Publications by Year in descending order

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35
papers

521
citations

759233

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642732

23
g-index

35
all docs

35
docs citations

35
times ranked

394
citing authors

#	ARTICLE	IF	CITATIONS
1	Precise control of broadband frequency chirps using optoelectronic feedback. Optics Express, 2009, 17, 15991.	3.4	182
2	Coherent beam combining with multilevel optical phase-locked loops. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2930.	2.1	34
3	Multiple source frequency-modulated continuous-wave optical reflectometry: theory and experiment. Applied Optics, 2010, 49, 1932.	2.1	30
4	Phase-locking and coherent power combining of broadband linearly chirped optical waves. Optics Express, 2012, 20, 25213.	3.4	27
5	Coherent Power Combination of Semiconductor Lasers Using Optical Phase-Lock Loops. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 240-247.	2.9	26
6	Coherence Cloning Using Semiconductor Laser Optical Phase-Lock Loops. IEEE Journal of Quantum Electronics, 2009, 45, 755-761.	1.9	22
7	Stimulated Brillouin Scattering Suppression With a Chirped Laser Seed: Comparison of Dynamical Model to Experimental Data. IEEE Journal of Quantum Electronics, 2013, 49, 1040-1044.	1.9	21
8	16-W Yb fiber amplifier using chirped seed amplification for stimulated Brillouin scattering suppression. Applied Optics, 2017, 56, B116.	2.1	20
9	Quantum control of phase fluctuations in semiconductor lasers. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7896-E7904.	7.1	19
10	Coherent power combination of two Master-oscillator-power-amplifier (MOPA) semiconductor lasers using optical phase lock loops. Optics Express, 2007, 15, 3201.	3.4	18
11	Time-Dependent Modeling of Brillouin Scattering in Optical Fibers Excited by a Chirped Diode Laser. IEEE Journal of Quantum Electronics, 2012, 48, 1542-1546.	1.9	15
12	Chirp Multiplication by Four Wave Mixing for Wideband Swept-Frequency Sources for High Resolution Imaging. Journal of Lightwave Technology, 2010, 28, 2077-2083.	4.6	14
13	Narrow-Linewidth Oxide-Confined Heterogeneously Integrated Si/III-V Semiconductor Lasers. IEEE Photonics Technology Letters, 2017, 29, 2199-2202.	2.5	12
14	Phase-Controlled Apertures Using Heterodyne Optical Phase-Locked Loops. IEEE Photonics Technology Letters, 2008, 20, 897-899.	2.5	11
15	Phase noise reduction of a semiconductor laser in a composite optical phase-locked loop. Optical Engineering, 2010, 49, 124301.	1.0	11
16	High-Speed Coherent Optical Communication With Isolator-Free Heterogeneous Si/III-V Lasers. Journal of Lightwave Technology, 2020, 38, 6584-6590.	4.6	11
17	Coherent Power Combining of Chirped-Seed Erbium-Doped Fiber Amplifiers. IEEE Photonics Technology Letters, 2013, 25, 1616-1618.	2.5	9
18	Kicking the habit/semiconductor lasers without isolators. Optics Express, 2020, 28, 36466.	3.4	6

#	ARTICLE	IF	CITATIONS
19	Higher-order QAM data transmission using a high-coherence hybrid Si/III-V semiconductor laser. Optics Letters, 2020, 45, 1499.	3.3	6
20	Chirped Laser Seeding for SBS Suppression in a 100-W Pulsed Erbium Fiber Amplifier. IEEE Journal of Quantum Electronics, 2015, 51, 1-10.	1.9	5
21	Coherent and Incoherent Optical Feedback Sensitivity of High-coherence Si/III-V Hybrid Lasers. , 2019, , .		5
22	Using a linearly chirped seed suppresses SBS in high-power fiber amplifiers, allows coherent combination, and enables long delivery fibers. Proceedings of SPIE, 2014, , .	0.8	4
23	Theory and observation on non-linear effects limiting the coherence properties of high-Q hybrid Si/III-V lasers. Proceedings of SPIE, 2015, , .	0.8	4
24	Using a Hybrid Si/III-V Semiconductor Laser to Carry 16- and 64-QAM Data Signals over an 80-km Distance. , 2019, , .		3
25	Sideband locking of a single-section semiconductor distributed-feedback laser in an optical phase-lock loop. Optics Letters, 2009, 34, 3256.	3.3	2
26	Suppression of Linewidth Enhancement Factor in High-coherence Heterogeneously Integrated Silicon/III-V Lasers. , 2017, , .		2
27	Coherent Combination of Semiconductor Lasers Using Optical Phase-Lock Loops. , 2007, , .		1
28	Terahertz Chirp Generation Using Frequency Stitched VCSELs for Increased LIDAR Resolution. , 2012, , .		1
29	Application of optical phase lock loops in coherent beam combining. Proceedings of SPIE, 2008, , .	0.8	0
30	Bandwidth Enhancement of Semiconductor Laser Optical Phase-Lock Loops by Sideband Locking. , 2009, , .		0
31	Doubling the ultra-wide frequency sweep of linearly chirped lasers by four-wave mixing in a quasi-phase matched nonlinear fiber. , 2012, , .		0
32	Stimulated Brillouin scattering suppression with a chirped laser seed: comparison of dynamical model to experimental data. Proceedings of SPIE, 2014, , .	0.8	0
33	A Full-Field Tomographic Imaging Camera Based on a Linearly Swept Frequency DFB at 1064 nm. , 2015, , .		0
34	Phase-Locking and Coherent Power Combining of Linearly Chirped Optical Waves. , 2012, , .		0
35	Consequences of quantum noise control for the relaxation resonance frequency and phase noise in heterogeneous Silicon/III-V lasers. Scientific Reports, 2022, 12, 312.	3.3	0