Chung-Lun Wu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11297176/publications.pdf

Version: 2024-02-01

52 papers	1,257 citations	304743 22 h-index	361022 35 g-index
52 all docs	52 docs citations	52 times ranked	1492 citing authors

#	Article	IF	Citations
1	Using n- and p-Type Bi₂Te₃ Topological Insulator Nanoparticles To Enable Controlled Femtosecond Mode-Locking of Fiber Lasers. ACS Photonics, 2015, 2, 481-490.	6.6	197
2	Mutlicolor electroluminescent Si quantum dots embedded in SiO_x thin film MOSLED with 24% external quantum efficiency. Optics Express, 2013, 21, 391.	3.4	80
3	Hydrogen-free PECVD growth of few-layer graphene on an ultra-thin nickel film at the threshold dissolution temperature. Journal of Materials Chemistry C, 2013, 1, 3862.	5.5	72
4	Enhancing Optical Nonlinearity in a Nonstoichiometric SiN Waveguide for Cross-Wavelength All-Optical Data Processing. ACS Photonics, 2015, 2, 1141-1154.	6.6	72
5	Si-rich SiNx based Kerr switch enables optical data conversion up to 12â€…Gbit/s. Scientific Reports, 2015, 5, 9611.	3.3	63
6	Photostriction of strontium ruthenate. Nature Communications, 2017, 8, 15018.	12.8	53
7	All-optical modulation based on silicon quantum dot doped SiO _x :Si-QD waveguide. Laser and Photonics Reviews, 2014, 8, 766-776.	8.7	52
8	Strong optical nonlinearity of the nonstoichiometric silicon carbide. Journal of Materials Chemistry C, 2015, 3, 10164-10176.	5.5	47
9	Si-Rich $hbox{Si}_{m x}hbox{C}_{1 - {m x}}$ Light-Emitting Diodes With Buried Si Quantum Dots. IEEE Photonics Journal, 2012, 4, 1762-1775.	2.0	45
10	360Â° omnidirectional, printable and transparent photodetectors for flexible optoelectronics. Npj Flexible Electronics, 2018, 2, .	10.7	40
11	Enriching Si quantum dots in a Si-rich SiN_xmatrix for strong Ï‡⁽³⁾optical nonlinearity. Journal of Materials Chemistry C, 2016, 4, 1405-1413.	5.5	32
12	Fabricating graphite nano-sheet powder by slow electrochemical exfoliation of large-scale graphite foil as a mode-locker for fiber lasers. Optical Materials Express, 2013, 3, 1893.	3.0	31
13	Transferring the bendable substrateless GaN LED grown on a thin C-rich SiC buffer layer to flexible dielectric and metallic plates. Journal of Materials Chemistry C, 2017, 5, 607-617.	5.5	30
14	Saturated small-signal gain of Si quantum dots embedded in SiO2/SiOx/SiO2 strip-loaded waveguide amplifier made on quartz. Applied Physics Letters, 2009, 95, 021106.	3.3	29
15	A 533-nm self-luminescent Si-rich SiN_x/SiO_x distributed Bragg reflector. Optics Express, 2011, 19, 6563.	3.4	29
16	Inhomogeneous linewidth broadening and radiative lifetime dispersion of size dependent direct bandgap radiation in Si quantum dot. AIP Advances, 2012, 2, .	1.3	29
17	Nonstoichiometric SiC Bus/Ring Waveguide Based All-Optical Data Format Follower and Inverter. ACS Photonics, 2016, 3, 806-818.	6.6	27
18	Four-wave-mixing in the loss low submicrometer Ta_2O_5 channel waveguide. Optics Letters, 2015, 40, 4528.	3.3	26

#	Article	IF	Citations
19	Dissolution-and-reduction CVD synthesis of few-layer graphene on ultra-thin nickel film lifted off for mode-locking fiber lasers. Scientific Reports, 2015, 5, 13689.	3.3	25
20	Comparing retention and recombination of electrically injected carriers in Si quantum dots embedded in Si-rich SiN_x films. Applied Physics Letters, 2011, 99, 243501.	3.3	24
21	High-Pulse-Energy Topological Insulator Bi₂Te₃-Based Passive Q-Switched Solid-State Laser. IEEE Photonics Journal, 2016, 8, 1-10.	2.0	24
22	Efficient wavelength conversion with low operation power in a Ta_2O_5-based micro-ring resonator. Optics Letters, 2017, 42, 4804.	3.3	23
23	Visible to near-infrared octave spanning supercontinuum generation in tantalum pentoxide (Ta₂O₅) air-cladding waveguide. Optics Letters, 2019, 44, 1512.	3.3	23
24	Self-phase modulation in highly confined submicron Ta_2O_5 channel waveguides. Optics Express, 2016, 24, 21633.	3.4	21
25	Tantalum pentoxide (Ta₂O₅) based athermal micro-ring resonator. OSA Continuum, 2019, 2, 1198.	1.8	20
26	Low-loss and high-Q Ta_2O_5 based micro-ring resonator with inverse taper structure. Optics Express, 2015, 23, 26268.	3.4	19
27	Gain analysis of optically-pumped Si nanocrystal waveguide amplifiers on silicon substrate. Optics Express, 2010, 18, 9213.	3.4	18
28	Pulse-Width Saturation and Kelly-Sideband Shift in a Graphene-Nanosheet Mode-Locked Fiber Laser with Weak Negative Dispersion. Physical Review Applied, 2015, 3, .	3.8	14
29	Twoâ€Photon Absorptionâ€Free Ultrafast Optical Switching in Carbonâ€Rich Si_xC_{1â^'}_x Microring. Advanced Materials Technologies, 2017, 2, 1700095.	5.8	14
30	Tens of GHz Tantalum pentoxideâ€based microâ€ring allâ€optical modulator for Si photonics. Annalen Der Physik, 2017, 529, 1600358.	2.4	13
31	Tunable and stable UV-NIR photoluminescence from annealed SiO_x with Si nanoparticles. Optics Express, 2013, 21, 23416.	3.4	11
32	Narrow-Linewidth and Wavelength-Tunable Red-Light Emission From an Si-Quantum-Dot Embedded Oxynitride Distributed Bragg Reflector. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1643-1649.	2.9	10
33	Catalytically solid-phase self-organization of nanoporous SnS with optical depolarizability. Nanoscale, 2016, 8, 4579-4587.	5.6	8
34	All-Optical Cross-Absorption-Modulation Based Gb/s Switching With Silicon Quantum Dots. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 57-69.	2.9	7
35	Power Gain Modeling of Si Quantum Dots Embedded in a SiO$_{m x}$ Waveguide Amplifier With Inhomogeneous Broadened Spontaneous Emission. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1-9.	2.9	6
36	All-Optical Data Inverter Based on Free-Carrier Absorption Induced Cross-Gain Modulation in Si Quantum Dot Doped SiO<formula formulatype="inline"><tex Notation="TeX">$_{m x}$</tex></formula> Waveguide. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 323-331.	2.9	5

#	Article	IF	Citations
37	Degenerate Four-Wave Mixing in Si Quantum Dot Doped Si-Rich SiNx Channel Waveguide. Journal of Lightwave Technology, 2016, 34, 4111-4120.	4.6	5
38	Optical gain from luminescent a-SiN<inf>x</inf>O<inf>y</inf> waveguide. , 2010, , .		3
39	All-Optical Modulation in Si Quantum Dot-Doped SiO Micro-Ring Waveguide Resonator. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 40-48.	2.9	3
40	Nano-Porous MOSLEDs With Spatially Confined Si Quantum Dots Buried in Anodic Aluminum Oxide Membrane. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-7.	2.9	3
41	Gain and Emission Cross Section Analysis of Wavelength-Tunable Si-nc Incorporated Si-Rich ${m SiO}_{m x}$ Waveguide Amplifier. IEEE Journal of Quantum Electronics, 2011, 47, 1230-1237.	1.9	2
42	Pre-Chirped Pulse Excitation Enhanced<?Pub _newline ?>Terahertz Radiation. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 253-261.	3.1	1
43	All-optical switching in Ta<inf>2</inf>O<inf>5</inf> based micro-ring resonator. , 2017, , .		1
44	Si-ncs size distribution induced inhomogeneous linewidth broadening and lifetime dispersion. , 2012, , .		0
45	Enhanced Si quantum dot luminescence in sirich SiC thin-film light emitting diode. , 2012, , .		0
46	Free-carrier density dependent relaxation lifetime in Si quantum dot optical absorption modulator. , 2013, , .		0
47	Modulation depth enhancement in Si quantum dot doped SiO<inf>x</inf> waveguide based free-carrier modulator by adding a ring resonator. , 2014, , .		0
48	Low-insertion loss submicron Ta2O5 channel waveguide with inverse taper structure. , 2015, , .		0
49	Millimeter-Scaled Thick Cell Gap Measurement by Terahertz Spectroscopy Technology. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	0
50	Parametric frequency conversion in Ta<inf>2</inf>O<inf>5</inf> based micro-ring cavity. , 2017, , .		0
51	Low-loss submicron Ta2O5 optical waveguide and nonlinear optical application. , 2016, , .		0
52	Nonlinear optical properties investigation of Ta2O5 channel waveguide. , 2016, , .		0