Chung-Lun Wu

List of Publications by Year
in descending order

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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	Visible to near-infrared octave spanning supercontinuum generation in tantalum pentoxide (Ta₂O₅) air-cladding waveguide. Optics Letters, 2019, 44, 1512.	3.3	23
2	Tantalum pentoxide (Ta₂O₅) based athermal micro-ring resonator. OSA Continuum, 2019, 2, 1198.	1.8	20
3	360Â° omnidirectional, printable and transparent photodetectors for flexible optoelectronics. Npj Flexible Electronics, 2018, 2, .	10.7	40
4	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
5	Photostriction of strontium ruthenate. Nature Communications, 2017, 8, 15018.	12.8	53
6	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
7	Tens of GHz Tantalum pentoxideâ€based microâ€ring allâ€optical modulator for Si photonics. Annalen Der Physik, 2017, 529, 1600358.	2.4	13
8	Twoâ€Photon Absorptionâ€Free Ultrafast Optical Switching in Carbonâ€Rich Si_xC_{1â^'}_x Microring. Advanced Materials Technologies, 2017, 2, 1700095.	5.8	14
9	All-optical switching in Ta<inf>2</inf>O<inf>5</inf> based micro-ring resonator. , 2017, , .		1
10	Parametric frequency conversion in Ta<inf>2</inf>O<inf>5</inf> based micro-ring cavity. , 2017, , .		0
11	Efficient wavelength conversion with low operation power in a Ta_2O_5-based micro-ring resonator. Optics Letters, 2017, 42, 4804.	3.3	23
12	Self-phase modulation in highly confined submicron Ta_2O_5 channel waveguides. Optics Express, 2016, 24, 21633.	3.4	21
13	Pre-Chirped Pulse Excitation Enhanced<?Pub _newline ?>Terahertz Radiation. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 253-261.	3.1	1
14	Nonstoichiometric SiC Bus/Ring Waveguide Based All-Optical Data Format Follower and Inverter. ACS Photonics, 2016, 3, 806-818.	6.6	27
15	High-Pulse-Energy Topological Insulator Bi₂Te₃-Based Passive Q-Switched Solid-State Laser. IEEE Photonics Journal, 2016, 8, 1-10.	2.0	24
16	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
17	Millimeter-Scaled Thick Cell Gap Measurement by Terahertz Spectroscopy Technology. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	0
18	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

#	Article	IF	Citations
19	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
20	Catalytically solid-phase self-organization of nanoporous SnS with optical depolarizability. Nanoscale, 2016, 8, 4579-4587.	5.6	8
21	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
22	Low-loss submicron Ta2O5 optical waveguide and nonlinear optical application. , 2016, , .		0
23	Nonlinear optical properties investigation of Ta2O5 channel waveguide. , 2016, , .		0
24	Low-loss and high-Q Ta_2O_5 based micro-ring resonator with inverse taper structure. Optics Express, 2015, 23, 26268.	3.4	19
25	Si-rich SiNx based Kerr switch enables optical data conversion up to 12â€…Gbit/s. Scientific Reports, 2015, 5, 9611.	3.3	63
26	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
27	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
28	Four-wave-mixing in the loss low submicrometer Ta_2O_5 channel waveguide. Optics Letters, 2015, 40, 4528.	3.3	26
29	Low-insertion loss submicron Ta2O5 channel waveguide with inverse taper structure. , 2015, , .		0
30	Enhancing Optical Nonlinearity in a Nonstoichiometric SiN Waveguide for Cross-Wavelength All-Optical Data Processing. ACS Photonics, 2015, 2, 1141-1154.	6.6	72
31	Strong optical nonlinearity of the nonstoichiometric silicon carbide. Journal of Materials Chemistry C, 2015, 3, 10164-10176.	5.5	47
32	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
33	Modulation depth enhancement in Si quantum dot doped SiO<inf>x</inf> waveguide based free-carrier modulator by adding a ring resonator. , 2014, , .		0
34	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
35	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
36	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

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37	Free-carrier density dependent relaxation lifetime in Si quantum dot optical absorption modulator. , 2013, , .		0
38	Tunable and stable UV-NIR photoluminescence from annealed SiO_x with Si nanoparticles. Optics Express, 2013, 21, 23416.	3.4	11
39	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
40	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
41	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
42	Si-ncs size distribution induced inhomogeneous linewidth broadening and lifetime dispersion. , 2012, , .		0
43	Enhanced Si quantum dot luminescence in sirich SiC thin-film light emitting diode. , 2012, , .		0
44	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
45	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
46	Inhomogeneous linewidth broadening and radiative lifetime dispersion of size dependent direct bandgap radiation in Si quantum dot. AIP Advances, 2012, 2, .	1.3	29
47	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
48	A 533-nm self-luminescent Si-rich SiN_x/SiO_x distributed Bragg reflector. Optics Express, 2011, 19, 6563.	3.4	29
49	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
50	Optical gain from luminescent a-SiN<inf>x</inf>O<inf>y</inf> waveguide. , 2010, , .		3
51	Gain analysis of optically-pumped Si nanocrystal waveguide amplifiers on silicon substrate. Optics Express, 2010, 18, 9213.	3.4	18
52	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