

Fumihiko Koyama

List of Publications by Year in descending order

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39
docs citations

39
times ranked

300
citing authors

#	ARTICLE	IF	CITATIONS
1	29 GHz directly modulated 980 nm vertical-cavity surface emitting lasers with bow-tie shape transverse coupled cavity. Applied Physics Letters, 2013, 103, .	1.5	103
2	High-speed operation of bow-tie-shaped oxide aperture VCSELs with photon-photon resonance. Applied Physics Express, 2014, 7, 022102.	1.1	53
3	Miniature Nonmechanical Beam Deflector Based on Bragg Reflector Waveguide With a Number of Resolution Points Larger Than 1000. IEEE Photonics Journal, 2012, 4, 1712-1719.	1.0	39
4	Highly angular dependent high-contrast grating mirror and its application for transverse-mode control of VCSELs. Japanese Journal of Applied Physics, 2014, 53, 090306.	0.8	32
5	High Frequency Modulation of Transverse-Coupled-Cavity VCSELs for Radio Over Fiber Applications. IEEE Photonics Technology Letters, 2014, 26, 281-284.	1.3	30
6	Beam Steering, Beam Shaping, and Intensity Modulation Based on VCSEL Photonics. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1701510-1701510.	1.9	25
7	Oleuropein supplementation increases urinary noradrenaline and testicular testosterone levels and decreases plasma corticosterone level in rats fed high-protein diet. Journal of Nutritional Biochemistry, 2013, 24, 887-893.	1.9	22
8	Generation of vortex beam using Bragg reflector waveguide. Applied Physics Express, 2014, 7, 022502.	1.1	21
9	Enhancing Modulation Bandwidth of Semiconductor Lasers beyond 50 GHz by Strong Optical Feedback for Use in Millimeter-Wave Radio over Fiber Links. Japanese Journal of Applied Physics, 2013, 52, 124103.	0.8	16
10	Advances and new functions of VCSEL photonics. Optical Review, 2014, 21, 893-904.	1.2	16
11	Highly stable operations of transverse-coupled cavity VCSELs with enhanced modulation bandwidth. Electronics Letters, 2014, 50, 823-824.	0.5	14
12	Tuning Characteristics of Monolithic MEMS VCSELs With Oxide Anti-Reflection Layer. IEEE Photonics Technology Letters, 2013, 25, 1747-1750.	1.3	11
13	Intensity noise in ultra-high frequency modulated semiconductor laser with strong feedback and its influence on noise figure of RoF links. Journal of the European Optical Society-Rapid Publications, 0, 8, .	0.9	11
14	Compact low driving voltage ($<400\text{ mV}>$) electro-absorption modulator laterally integrated with VCSEL. Electronics Letters, 2014, 50, 101-103.	0.5	11
15	Athermal and widely tunable VCSEL with bimorph micromachined mirror. Optics Express, 2014, 22, 21471.	1.7	10
16	Low-voltage, high-speed and compact electro-absorption modulator laterally integrated with 980-nm VCSEL. Optics Express, 2014, 22, 25746.	1.7	10
17	30 GHz ultracompact electroabsorption modulator integrated with 980 nm VCSEL with resonance effect in coupled cavities. Applied Physics Express, 2014, 7, 112101.	1.1	9
18	Compact electro-absorption modulator integrated with vertical-cavity surface-emitting laser for highly efficient millimeter-wave modulation. Applied Physics Letters, 2014, 105, .	1.5	9

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19	Ultra-high channel-count wavelength demultiplexer based on a Bragg reflector waveguide with large angular dispersion. Optics Express, 2012, 20, B331.	1.7	7
20	Low-voltage electro-absorption optical modulator based on slow-light Bragg reflector waveguide. Applied Physics Letters, 2013, 102, 031118.	1.5	6
21	40 Gbps modulation of transverse coupled cavity VCSEL with push-pull modulation scheme. Applied Physics Express, 2014, 7, 092701.	1.1	6
22	Lateral integration of vertical-cavity surface-emitting laser and slow light Bragg reflector waveguide devices. Applied Optics, 2014, 53, 1766.	0.9	6
23	Athermalization and on-chip multi-wavelength integration of VCSELs employing thermally actuated micromachined mirrors. Applied Physics Letters, 2014, 105, .	1.5	6
24	35- μm Bragg Reflector Waveguide Modulator for High-Speed and Energy-Saving Operation. IEEE Photonics Technology Letters, 2013, 25, 1766-1769.	1.3	4
25	Low polarization dependent beam deflector based on Bragg reflector waveguide for C-band wavelength demultiplexing. Journal of Applied Physics, 2013, 114, .	1.1	4
26	Highly efficient out-of-plane optical coupler based on tapered hollow waveguide. Japanese Journal of Applied Physics, 2014, 53, 048004.	0.8	4
27	Engineering of angular dependence of high-contrast grating mirror for transverse mode control of VCSELs. , 2014, , .		3
28	Wavelength tuning and controlled temperature dependence in vertical-cavity surface-emitting lasers with a thermally and electrostatically actuated cantilever structure. Japanese Journal of Applied Physics, 2014, 53, 010303.	0.8	3
29	Compact Slow-Light Electro-Absorption Modulator Laterally Integrated with 980 nm Vertical-Cavity Surface-Emitting Laser. Applied Physics Express, 2013, 6, 122102.	1.1	2
30	Photochemical reaction between diphenylamine and 1,1,1-tribromoethane and photo-induced pattern formation. Dyes and Pigments, 2013, 98, 323-326.	2.0	2
31	Low-polarization dependent thermo-optic phase-shift in slow light Bragg reflector waveguide for beam steering and optical switching. Japanese Journal of Applied Physics, 2014, 53, 010306.	0.8	2
32	Push-pull modulation of lateral coupling of dual VCSEL cavities using a bow-tie shape. , 2013, , .		1
33	Beam-steering in hollow ZrO ₂ /SiO ₂ distributed Bragg reflector waveguides for one-dimensional RGB imaging. Japanese Journal of Applied Physics, 2014, 53, 030302.	0.8	1
34	In-plane integration of VCSEL with photo-detector by using laterally coupled cavities. , 2014, , .		1
35	Slow-light Bragg reflector waveguide array for two-dimensional beam steering. Japanese Journal of Applied Physics, 2014, 53, 038001.	0.8	1
36	Compact beam deflector based on slow-light Bragg reflector waveguide monolithically integrated with VCSEL. IEICE Electronics Express, 2013, 10, 20130842-20130842.	0.3	0

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37	20 μm long slow-light Bragg reflector waveguide modulator with over 20 GHz modulation bandwidth. Applied Physics Express, 2014, 7, 114101.	1.1	0
38	Output beam profile control of slow-light Bragg reflector waveguide deflector with high-contrast sub-wavelength grating. , 2014, , .		0
39	Ultrafast direct modulation of transverse-mode coupled-cavity VCSELs far beyond the relaxation oscillation frequency. , 2014, , .		0