

# Milton Feng

## List of Publications by Year in descending order

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47  
papers

489  
citations

933447

10  
h-index

794594

19  
g-index

47  
all docs

47  
docs citations

47  
times ranked

374  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental demonstration of pseudomorphic heterojunction bipolar transistors with cutoff frequencies above 600GHz. Applied Physics Letters, 2005, 86, 152101.	3.3	60
2	12.5 nm base pseudomorphic heterojunction bipolar transistors achieving $f_T=710\text{GHz}$ and $f_{MAX}=340\text{GHz}$ . Applied Physics Letters, 2005, 87, 252109.	3.3	59
3	850 nm Oxide-VCSEL With Low Relative Intensity Noise and 40 Gb/s Error Free Data Transmission. IEEE Photonics Technology Letters, 2014, 26, 289-292.	2.5	45
4	Oxide-Confined VCSELs for High-Speed Optical Interconnects. IEEE Journal of Quantum Electronics, 2018, 54, 1-15.	1.9	38
5	High-Speed Visible Light Communication Using GaN-Based Light-emitting Diodes With Photonic Crystals. Journal of Lightwave Technology, 2017, 35, 258-264.	4.6	26
6	Comparison of High-Speed PAM4 and QAM-OFDM Data Transmission Using Single-Mode VCSEL in OM5 and OM4 MMF Links. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-10.	2.9	19
7	850 nm Oxide-Confined VCSELs with 50 Gb/s Error-Free Transmission Operating up to 85 $^{\circ}\text{C}$ . , 2016, , .		16
8	InP/InAlGaAs light-emitting transistors and transistor lasers with a carbon-doped base layer. Journal of Applied Physics, 2011, 109, 063106.	2.5	15
9	50 Gb/s Error-Free Data Transmission of 850 nm Oxide-Confined VCSELs. , 2016, , .		15
10	InAlGaAs $\hat{\cdot}$ InP light-emitting transistors operating near 1.55 $\hat{\mu}$ m. Journal of Applied Physics, 2008, 103, 114505.	2.5	13
11	50th Anniversary of the Light-Emitting Diode (LED): An Ultimate Lamp [Scanning the Issue]. Proceedings of the IEEE, 2013, 101, 2154-2157.	21.3	13
12	Tunneling Modulation of Transistor Lasers: Theory and Experiment. IEEE Journal of Quantum Electronics, 2018, 54, 1-14.	1.9	12
13	Temperature and Noise Dependence of Tri-Mode VCSEL Carried 120-Gbit/s QAM-OFDM Data in Back-to-Back and OM5-MMF Links. Journal of Lightwave Technology, 2020, 38, 6746-6758.	4.6	11
14	The Modal Effect of VCSELs on Transmitting Data Rate Over Distance in OM4 Fiber. IEEE Journal of Quantum Electronics, 2020, 56, 1-6.	1.9	10
15	2.6 $\hat{\mu}$ K VCSEL data link for cryogenic computing. Applied Physics Letters, 2021, 119, .	3.3	8
16	0.5 THz Performance of a Type-II DHBT With a Doping-Graded and Constant-Composition GaAsSb Base. IEEE Electron Device Letters, 2014, 35, 24-26.	3.9	7
17	Single Quantum-Well Transistor Lasers Operating Error-Free at 22 Gb/s. IEEE Photonics Technology Letters, 2015, 27, 600-603.	2.5	7
18	Comparison on OM5-MMF and OM4-MMF Data Links With 32-GBaud PAM-4 Modulated Few-Mode VCSEL at 850 $\hat{\text{A}}$ m. Journal of Lightwave Technology, 2020, 38, 573-582.	4.6	7

#	ARTICLE	IF	CITATIONS
19	850-nm Single-Mode Vertical-Cavity Surface-Emitting Lasers for 40 Gb/s Error-Free Transmission up to 500 m in OM4 Fiber. IEEE Electron Device Letters, 2020, 41, 84-86.	3.9	7
20	VCSEL with bi-layer oxidized aperture enables 140-Gbit/s OFDM Transmission over 100-m-long OM5 MMF. , 2019, , .		7
21	850 nm VCSELs for 50 Gb/s NRZ Error-Free Transmission over 100-meter OM4 and up to 115 Å°C Operation. , 2019, , .		7
22	85Å°C Operation of Single-Mode 850 nm VCSELs for High Speed Error-Free Transmission up to 1 km in OM4 Fiber. , 2019, , .		7
23	Efficient electromagnetic analysis of two-dimensional finite quasi-random gratings for quantum well infrared photodetectors. Journal of Applied Physics, 1998, 83, 3360-3363.	2.5	6
24	Low Power Operation of a Vertical Cavity Transistor Laser via the Reduction of Collector Offset Voltage. IEEE Photonics Technology Letters, 2014, 26, 1003-1006.	2.5	6
25	Transistor Laser With 13.5-Gb/s Error-Free Data Transmission. IEEE Photonics Technology Letters, 2014, 26, 1542-1545.	2.5	6
26	Temperature Dependent Analysis of 50 Gb/s Oxide-Confined VCSELs. , 2017, , .		6
27	50 Gb/s Error-Free Data Transmission Using a NRZ-OOK Modulated 850 nm VCSEL. , 2018, , .		5
28	Cryogenic Oxide-VCSEL for PAM-4 Optical Data Transmission Over 50 Gb/s at 77 K. IEEE Photonics Technology Letters, 2021, 33, 816-819.	2.5	5
29	85Å°C Operation of 850 nm VCSELs Deliver a 42 Gb/s Error-Free Data Transmission for 100 meter MMF Link. , 2018, , .		5
30	A NRZ-OOK Modulated 850-nm VCSEL with 54 Gb/s Error-Free Data Transmission. , 2019, , .		4
31	Effect of microcavity size to the RIN and 40 Gb/s data transmission performance of high speed VCSELs. , 2015, , .		4
32	Superconducting Processor Modulated VCSELs for 4K High-Speed Optical Data Link. IEEE Journal of Quantum Electronics, 2022, 58, 1-8.	1.9	4
33	High performance GaAsSbâ•InP double heterojunction bipolar transistors grown by gas-source molecular beam epitaxy. Journal of Vacuum Science & Technology B, 2006, 24, 1564.	1.3	3
34	780 nm Oxide-Confined VCSEL With 13.5 Gb/s Error-Free Data Transmission. IEEE Photonics Technology Letters, 2014, 26, 702-705.	2.5	3
35	All optical NOR gate via tunnel-junction transistor lasers for high speed optical logic processors. , 2018, , .		3
36	Cryogenic 50 GHz VCSEL for sub-100 fJ/bit Optical Link. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
37	Baldur: A Power-Efficient and Scalable Network Using All-Optical Switches. , 2020, , .		3
38	Cryogenic Oxide-VCSELs with Bandwidth over 50 GHz at 82 K for Next-Gen High-Speed Computing. , 2021, , .		3
39	Microwave surface resistance of spinâ€œcast YBa2Cu3O7âˆ™thin films on LaAlO3substrates. Applied Physics Letters, 1993, 63, 3512-3514.	3.3	2
40	Development of Broadband Low Actuation Voltage RF MEM Switches. Active and Passive Electronic Components, 2002, 25, 97-111.	0.3	2
41	Advanced Single-Mode 850 nm VCSELs for Record NRZ and PAM4 Data Rate on SMF-28 Fiber up to 1 km. , 2021, , .		2
42	2.9â€œK VCSEL demonstrates 100 Gbps PAM-4 optical data transmission. Applied Physics Letters, 2022, 121, .	3.3	2
43	Advanced Process and Modeling on 600+ GHz Emitter Ledge Type-II GaAsSb/InP DHBT. , 2014, , .		1
44	Direct and photon-assisted tunneling in resonant-cavity quantum-well light-emitting transistors. Journal of Applied Physics, 2018, 124, .	2.5	1
45	Single-mode 850nm VCSELs Demonstrate 96 Gb/s PAM4 OM4 Fiber Link for Extended Reach to 1km. , 2022, , .		1
46	Integrated Photonics of Transistor Laser, Detector and Active Load for All Optical NOR Gate. , 2019, , .		0
47	Process Optimization and Microwave Model of GaAs Photodiodes for 50 Gb/s Optical Links. IEEE Transactions on Semiconductor Manufacturing, 2020, 33, 557-563.	1.7	0