

Franko Kueppers

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117 papers	840 citations	16 h-index	24 g-index
180 ext. papers	1,092 ext. citations	2 avg, IF	3.69 L-index

#	Paper	IF	Citations
117	Surface micromachined tunable 1.55 μm -VCSEL with 102 nm continuous single-mode tuning. <i>Optics Express</i> , 2011 , 19, 17336-43	3.3	64
116	Measurement of the maximum speed of PMD fluctuation in installed field fiber		49
115	160 Gbit/s transmission over 116 km field-installed fibre using 160 Gbit/s OTDM and 40 Gbit/s ETDM. <i>Electronics Letters</i> , 2001 , 37, 443	1.1	38
114	Symmetrical dispersion compensation for standard monomode-fiber-based communication systems with large amplifier spacing. <i>Optics Letters</i> , 1997 , 22, 982-4	3	35
113	40 Gb/s and 4/spl times/40 Gb/s TDM/WDM standard fiber transmission. <i>Journal of Lightwave Technology</i> , 1999 , 17, 2276-2284	4	35
112	Optical clock recovery methods: Review (Invited). <i>Optical Fiber Technology</i> , 2009 , 15, 363-372	2.4	32
111	Design of DPSS based fiber bragg gratings and their application in all-optical encryption, OCDMA, optical steganography, and orthogonal-division multiplexing. <i>Optics Express</i> , 2014 , 22, 10882-97	3.3	31
110	RZ versus NRZ modulation format for dispersion compensated SMF-based 10-Gb/s transmission with more than 100-km amplifier spacing. <i>IEEE Photonics Technology Letters</i> , 1999 , 11, 481-483	2.2	27
109	Effect of p-NiO and n-ZnSe interlayers on the efficiency of p-GaN/n-ZnO light-emitting diode structures. <i>Semiconductor Science and Technology</i> , 2015 , 30, 065005	1.8	26
108	Unrepeated 40 Gbit/s RZ single channel transmission over 150 km of standard singlemode fibre at 1.55 [micro sign]m. <i>Electronics Letters</i> , 1997 , 33, 76	1.1	26
107	Experimental comparison of 40 Gbit/s RZ and NRZ transmission over standard singlemode fibre. <i>Electronics Letters</i> , 1999 , 35, 2216	1.1	25
106	10-Gb/s Direct Modulation of Widely Tunable 1550-nm MEMS VCSEL. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015 , 21, 436-443	3.8	22
105	Unrepeated 40-Gb/s RZ single-channel transmission at 1.55 μm using various fiber types. <i>IEEE Photonics Technology Letters</i> , 1998 , 10, 822-824	2.2	20
104	Simultaneous wavelength and orbital angular momentum demultiplexing using tunable MEMS-based Fabry-Perot filter. <i>Optics Express</i> , 2017 , 25, 9634-9646	3.3	19
103	Optimal schemes for dispersion compensation of standard monomode fiber based links. <i>Optics Communications</i> , 1997 , 140, 15-18	2	19
102	Wavelength-selective orbital-angular-momentum beam generation using MEMS tunable Fabry-Perot filter. <i>Optics Letters</i> , 2016 , 41, 3249-52	3	16
101	Straight line 20 Gbit/s transmission over 617 km of standard singlemode fibre with dispersion compensation. <i>Electronics Letters</i> , 1995 , 31, 305-307	1.1	16

100	Synchronous Optical CDMA Networks Capacity Increase Using Transposed Modified Prime Codes. <i>Journal of Lightwave Technology</i> , 2010 , 28, 2603-2610	4	14
99	Demonstration of PMD Compensation by LDPC-Coded Turbo Equalization and Channel Capacity Loss Characterization Due to PMD and Quantization. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1852-1854	2.2	12
98	Multichannel and rate all-optical clock recovery. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 1395-1397	2.2	11
97	Room-temperature terahertz emission from ZnSe-based quantum cascade structures: A simulation study. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017 , 11, 1600423	2.5	10
96	26-Gb/s DMT Transmission Using Full Σ -Band Tunable VCSEL for Converged PONs. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 1475-1478	2.2	9
95	1-D and 2-D Nanocontacts for Reliable and Efficient Terahertz Photomixers. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015 , 5, 398-405	3.4	9
94	Reliable GaN-Based THz Gunn Diodes With Side-Contact and Field-Plate Technologies. <i>IEEE Access</i> , 2020 , 8, 84116-84122	3.5	9
93	Enhanced Responsivity of ZnSe-Based Metal-Semiconductor-Metal Near-Ultraviolet Photodetector via Impact Ionization. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1700418	2.5	9
92	Far-field, linewidth and thermal characteristics of a high-speed 1550-nm MEMS tunable VCSEL. <i>Optics Express</i> , 2016 , 24, 13142-56	3.3	9
91	Direct Near-Field Observation of Surface Plasmon Polaritons on Silver Nanowires. <i>ACS Omega</i> , 2019 , 4, 21962-21966	3.9	9
90	Continuously Tunable, Polarization Stable SWG MEMS VCSELs at 1.55 μm . <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 841-843	2.2	8
89	Experimental Demonstration of Optical Retiming Using Temporal Soliton Molecules. <i>Journal of Lightwave Technology</i> , 2011 , 29, 3493-3499	4	8
88	Surface micromachined MEMS-tunable VCSELs with wide and fast wavelength tuning. <i>Electronics Letters</i> , 2011 , 47, 1243	1.1	8
87	Evaluation of large girth LDPC codes for PMD compensation by turbo equalization. <i>Optics Express</i> , 2008 , 16, 13450-5	3.3	8
86	Resonant Tunneling and Quantum Cascading for Optimum Room-Temperature Generation of THz Signals. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 3482-3488	2.9	7
85	Optimized design of passive fibre compensated transmission systems in view of Kerr non-linearity. <i>Journal of Optics</i> , 1995 , 4, 459-467		7
84	Multispecies Heterodyne Phase Sensitive Dispersion Spectroscopy over 80 nm Using a MEMS-VCSEL. <i>ACS Photonics</i> , 2017 , 4, 2664-2668	6.3	6
83	Widely tunable telecom MEMS-VCSEL for terahertz photomixing. <i>Optics Letters</i> , 2015 , 40, 4428-31	3	6

82	Systematic characterization of a 1550 nm microelectromechanical (MEMS)-tunable vertical-cavity surface-emitting laser (VCSEL) with 7.92 THz tuning range for terahertz photomixing systems. <i>Journal of Applied Physics</i> , 2018 , 123, 023106	2.5	6
81	Effect of p-NiO Interlayer on Internal Quantum Efficiency of p-GaN/n-ZnO Light-Emitting Devices. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2015 , 9, 811-818	1.3	6
80	Proposal for a Monolithic Broadband Terahertz Quantum Cascade Laser Array Tailored to Detection of Explosive Materials. <i>Sensor Letters</i> , 2018 , 16, 1-7	0.9	6
79	Generation of UWB Doublet Pulse Based on Directly Modulated Laser and Chromatic Dispersion. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 343-346	2.2	5
78	50 nm continuously tunable MEMS VCSEL devices with surface micromachining operating at 1.95 μ m emission wavelength. <i>Semiconductor Science and Technology</i> , 2013 , 28, 012001	1.8	5
77	Analytical qualitative modeling of passive and active metamaterials [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017 , 34, 1597	1.7	5
76	Enhancing spectral efficiency and capacity in synchronous OCDMA by transposed-MPC. <i>Optical Switching and Networking</i> , 2012 , 9, 130-137	1.6	5
75	Efficiency of continuous-wave solar pumped semiconductor lasers. <i>Optics and Laser Technology</i> , 2013 , 47, 194-198	4.2	5
74	1 Tb/s WDM-OFDM-PON power budget extension techniques 2013 ,		5
73	Tuneable VCSEL aiming for the application in interconnects and short haul systems 2011 ,		5
72	Long-wavelength VCSELs for sensing applications 2012 ,		5
71	160 Gbit/s field transmission over 116 km standard single mode fibre using 160 Gbit/s OTDM and 40 Gbit/s ETDM demultiplexer. <i>IEE Proceedings: Optoelectronics</i> , 2001 , 148, 171-175		5
70	Unrepeated 80 Gbit/s RZ single channel transmission over 160 km of standard fibre at 1.55 μ m with large wavelength tolerance. <i>Electronics Letters</i> , 2000 , 36, 561	1.1	5
69	Straightforward upgrading of transmission systems to 4 \times 10 Gbit/s through 617 km and 8 \times 10 Gbit/s through 412 km of SMF. <i>Electronics Letters</i> , 1995 , 31, 1374-1375	1.1	5
68	Efficiency enhancement of InGaN/GaN light-emitting diodes with pin-doped GaN quantum barrier. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 035108	3	4
67	All-optical majority gate based on an injection-locked laser. <i>Scientific Reports</i> , 2019 , 9, 14576	4.9	4
66	Vertical nanowire contacted THz Schottky detectors based on gallium arsenide for zero-bias operation 2017 ,		4
65	Bidirectional UWB over fiber for WDM-PON system. <i>Optics Express</i> , 2017 , 25, 6840-6850	3.3	4

64	WDM-DWDM NG-PON Power Budget Extension by Utilizing SOA in the Remote Node. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-10	1.8	4
63	Generation of UWB pulses using direct modulation of semiconductor laser and optical filtering. <i>Electronics Letters</i> , 2013 , 49, 1171-1173	1.1	4
62	All-optical processing of RZ-DPSK signals using counter-propagating pulses in a saturated SOA. <i>Optics Communications</i> , 2011 , 284, 2576-2580	2	4
61	Direct DPSK modulation of chirp-managed laser as cost-effective downstream transmitter for symmetrical 10-Gbit/s WDM PONs. <i>Optics Express</i> , 2012 , 20, B470-8	3.3	4
60	System optimization and significant reach extension using alternating dispersion compensation for 160 Gbit/s transmission links. <i>Optics Express</i> , 2005 , 13, 6336-44	3.3	4
59	160 Gbit/s Transmission over 116 km Field-Installed Fiber Using 160 Gbit/s OTDM and 40 Gbit/s ETDM 2001 ,		4
58	Temperature characteristics of surface micromachined MEMS-VCSEL with large tuning range. <i>Optics Express</i> , 2014 , 22, 13063-72	3.3	3
57	Nanogrid-based vertically integrated photomixer for continuous wave terahertz generation 2012 ,		3
56	Graphene LTG-GaAs photomixer for reliable continuous wave terahertz generation 2013 ,		3
55	Investigation of multiwavelength clock recovery based on heterodyne beats of sideband-filtered signal. <i>Optics Communications</i> , 2007 , 271, 87-90	2	3
54	40 Gb/s field test on an installed fiber link with high PMD and investigation of differential group delay impact on the transmission performance		3
53	A new approach to achieve Gunn effect for GaN based THz sources with high power 2019 ,		2
52	Optical vortex propagation in few-mode rectangular polymer waveguides 2017 ,		2
51	Tunable MEMS-VCSEL with >140-nm tuning range using tuning range using SiO ₂ /SiC-based MEMS-DBR 2014 ,		2
50	Far-field emission characteristics and linewidth measurements of surface micro-machined MEMS tunable VCSELs 2013 ,		2
49	Saturated Collision Amplifier reach extender for XGPON1 and TDM/DWDM PON. <i>Optics Express</i> , 2011 , 19, B645-52	3.3	2
48	Surface micromachined MEMS tunable VCSEL at 1550 nm with > 70 nm single mode tuning 2012 ,		2
47	Phase-preserving amplitude noise suppression using an attenuation-imbalanced NOLM 2010 ,		2

46	Polarization Independent All-optical Clock Recovery Scheme based on Birefringent Resonator. <i>Journal of Optical Communications</i> , 2007 , 28,	1.2	2
45	Unrepeated 40 Gbit/s RZ transmission over 252 km SMF using Raman amplification. <i>Electronics Letters</i> , 2001 , 37, 646	1.1	2
44	TDM-PON compatible generation of 10 Gbps NRZ and 1.25 Gbps UWB signals by a single light source. <i>Optics Express</i> , 2016 , 24, 17018-26	3.3	2
43	Zero-bias Schottky diode based THz detectors at room temperature using metallic nanowire 2016 ,		2
42	Reliability Improvement of High-Power THz GaN Gunn Sources for Active Imaging Systems 2018 ,		2
41	1.33 THz room-temperature quantum cascade lasers based on ZnMgSe/ZnSe 2017 ,		1
40	Comparison of Metallic NW and Evaporated Contact for THz Detector Modules Based on an InGaAs Schottky diode 2019 ,		1
39	Radio transmission and BER performance of UWB pulse generation based on directly modulated semiconductor laser 2015 ,		1
38	Ultrawideband signal generation based on directly modulated semiconductor laser and optical filtering 2013 ,		1
37	Graphene Nanowire hybrid photomixer for continuous-wave terahertz generation 2017 ,		1
36	Demonstration of optical vortex propagation in on-chip rectangular dielectric waveguides 2017 ,		1
35	Generation of UWB pulses utilizing directly modulated tunable MEMS-VCSEL 2015 ,		1
34	10 Gbit/s PON Upstream Burst-mode Equalization Based on SOAs 2014 ,		1
33	Single nanowire photomixer for reliable and high frequency continuous wave terahertz generation 2014 ,		1
32	WDM-PON budget extension techniques for Nx10 Gbit/s DPSK signals 2013 ,		1
31	2010 ,		1
30	Polarization investigation of a tunable high-speed short-wavelength bulk-micromachined MEMS-VCSEL 2012 ,		1
29	BER Improvement for RZ-DPSK Receivers Using Saturated Asymmetric Filtering 2010 ,		1

28	Mode-locked fiber/waveguide lasers based on a fiber taper embedded in carbon nanotubes/polymer composite 2008 ,		1
27	Fiber ringdown-beat pressure sensors 2008 ,		1
26	Dissipative dispersion-managed solitons in fiber-optic systems with lumped amplification. <i>Optics Letters</i> , 2019 , 44, 2657	3	1
25	Reach Extenders Based on Optical Amplification for XGPON1 Optical Access Networks 2011 ,		1
24	CW THz photomixers at 850 nm and 1550 nm using dielectrophoretic alignment of Ag-nanowire 2016 ,		1
23	New InGaAs THz Schottky Detectors with Nanowire Contact for Zero-Bias Operation 2018 ,		1
22	2.08 THz and 4.96 THz Room-Temperature Quantum Cascade Lasers Based on Non-Polar M-Plane ZnMgO/ZnO 2018 ,		1
21	Analysis of a Dynamical System Modeling Lasers and Applications for Optical Neural Networks. <i>SIAM Journal on Applied Dynamical Systems</i> , 2022 , 21, 840-878	2.8	1
20	Optical Rectification of Phase Modulated Signal Based on Injection Locking. <i>Journal of Physics: Conference Series</i> , 2017 , 917, 052014	0.3	0
19	Numerical analysis and system optimization for 100 Gbit/s carrier Ethernet serial modulation formats. <i>Optics Communications</i> , 2010 , 283, 2333-2338	2	0
18	The bit pattern effect on all-optical clock recovery using tank circuits and birefringent resonators. <i>Optics Communications</i> , 2009 , 282, 4693-4698	2	
17	Design considerations for terrestrial ultra-high-bitrate long-haul transmission systems 2005 , 6012, 601203		
16	Guest editorial 40 Gb/s lightwave systems. <i>Journal of Lightwave Technology</i> , 2002 , 20, 1982-1982	4	
15	Introduction to Optical Metamaterials: Motivation and Goals. <i>Springer Series in Optical Sciences</i> , 2018 , 1-21	0.5	
14	Applications of the Classical Metamaterial Model Nonlinear Metamaterials: Multipole (Second Order) and Third Order Nonlinearities. <i>Springer Series in Optical Sciences</i> , 2018 , 167-189	0.5	
13	Multipole Approach for Homogenization of Metamaterials: Quantum Metamaterials. <i>Springer Series in Optical Sciences</i> , 2018 , 191-204	0.5	
12	Application of the Model of Quantum Metamaterials: Metamaterial Caused Enhancement of Nonlinear Response. <i>Springer Series in Optical Sciences</i> , 2018 , 205-224	0.5	
11	Relaxation of Inverted Quantum System Coupled with Metallic Nanoobjects. <i>Springer Series in Optical Sciences</i> , 2018 , 271-285	0.5	

10	Phenomenological Versus Multipole Models. <i>Springer Series in Optical Sciences</i> , 2018 , 47-90	0.5
9	Applications of the Classical Metamaterial Model Optical Activity and Electromagnetically Induced Transparency. <i>Springer Series in Optical Sciences</i> , 2018 , 105-123	0.5
8	Applications of the Classical Metamaterial Model Metamaterials with Interaction Between Meta-Atoms. <i>Springer Series in Optical Sciences</i> , 2018 , 125-144	0.5
7	Plane Wave Propagation in Metamaterials with Gain. <i>Springer Series in Optical Sciences</i> , 2018 , 257-270	0.5
6	On the Question of Radiative Losses in the Frame of Classic and Quantum Formalism. <i>Springer Series in Optical Sciences</i> , 2018 , 287-305	0.5
5	Applications of the Classical Metamaterial Model Disordered Metamaterials. <i>Springer Series in Optical Sciences</i> , 2018 , 145-166	0.5
4	Homogenization of Maxwell Equations Macroscopic and Microscopic Approaches. <i>Springer Series in Optical Sciences</i> , 2018 , 23-46	0.5
3	Multipole Approach for Homogenization of Metamaterials: Classical Metamaterials. <i>Springer Series in Optical Sciences</i> , 2018 , 91-103	0.5
2	Application of the Model of Quantum Metamaterials: Regular and Stochastic Dynamics of Nanolaser (Spaser). <i>Springer Series in Optical Sciences</i> , 2018 , 225-255	0.5
1	Nonlinear Pulses in Dispersion-Managed Fiber-Optic Systems in Presence of High Losses. <i>Journal of Physics: Conference Series</i> , 2018 , 1124, 051011	0.3