Jungwon Kim

List of Publications by Year
in descending order

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150 papers	3,549 citations	147801 31 h-index	138484 58 g-index
151 all docs	151 docs citations	151 times ranked	1942 citing authors

#	Article	IF	Citations
1	Synchronization of an optical frequency comb and a microwave oscillator with 53â€‰â€‰zs/Hz^{1/2} resolution and 10⁻²⁰-level stability. Photonics Research, 2022, 10, 365.	7.0	13
2	Ultrastable microwave and soliton-pulse generation from fibre-photonic-stabilized microcombs. Nature Communications, 2022, 13, 381.	12.8	27
3	Chip-scale power booster for light. Science, 2022, 376, 1269-1269.	12.6	1
4	High-precision and large-dynamic-range three-dimensional surface profilometry by comb-based time-of-flight detection. , 2021, , .		0
5	Non-destructive thickness characterisation of 3D multilayer semiconductor devices using optical spectral measurements and machine learning. Light Advanced Manufacturing, 2021, 2, 9.	5.1	13
6	151-as jitter, 22-GHz pulse train from a silica microcomb. , 2021, , .		0
7	A 360-fs-Time-Resolution 7-bit Stochastic Time-to-Digital Converter With Linearity Calibration Using Dual Time Offset Arbiters in 65-nm CMOS. IEEE Journal of Solid-State Circuits, 2021, 56, 940-949.	5.4	8
8	Self-stabilized soliton generation in a microresonator through mode-pulled Brillouin lasing. Optics Letters, 2021, 46, 1772.	3.3	18
9	Ultralow-noise microwave extraction from optical frequency combs using photocurrent pulse shaping with balanced photodetection. Scientific Reports, 2021, 11, 17809.	3.3	9
10	Synchronization of an optical frequency comb and a microwave oscillator with -174 dBc/Hz noise floor. , 2021, , .		0
11	Femtosecond synchronization of three mode-locked lasers and a microwave oscillator with multi-color timing detection. , 2021, , .		0
12	Subâ€10â€fs Timing for Ultrafast Electron Diffraction with THzâ€Driven Streak Camera. Laser and Photonics Reviews, 2021, 15, 2000326.	8.7	5
13	Self-Stabilized Soliton Generation in a Microresonator Through Mode- Pulled Brillouin Lasing. , 2021, , .		0
14	Towards jitter-free ultrafast electron diffraction technology. Nature Photonics, 2020, 14, 245-249.	31.4	55
15	Photonic Flywheel in a Monolithic Fiber Resonator. Physical Review Letters, 2020, 125, 143902.	7.8	52
16	Attosecond electronic timing with rising edges of photocurrent pulses. Nature Communications, 2020, 11, 3667.	12.8	13
17	Ultrafast, sub-nanometre-precision and multifunctional time-of-flight detection. Nature Photonics, 2020, 14, 355-360.	31.4	67
18	Generation of multiple ultrastable optical frequency combs from an all-fiber photonic platform. Science Advances, 2020, 6, eaax4457.	10.3	17

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19	Optical frequency comb noise spectra analysis using an asymmetric fiber delay line interferometer. Optics Express, 2020, 28, 9232.	3.4	14
20	Femtosecond synchronization of multiple mode-locked lasers and a microwave oscillator by multicolor electro-optic sampling. Optics Letters, 2020, 45, 3155.	3.3	2
21	Ultralow jitter silica microcomb. Optica, 2020, 7, 1108.	9.3	30
22	Bidirectional mode-locked all-normal dispersion fiber laser. Optica, 2020, 7, 961.	9.3	50
23	Ultralow-jitter 22-GHz silica microcomb. , 2020, , .		0
24	All-fiber-photonic sub-10"14-level comb-line stabilization. , 2020, , .		0
25	Soliton Comb Generation from a Fabry-Perot Microresonator. , 2020, , .		0
26	Attosecond Timing in Photonic and Electronic Domains. , 2020, , .		0
27	Low-Noise Repetition-Rate Multiplication by Injection Locking and Gain- Saturated Amplification. IEEE Photonics Technology Letters, 2019, 31, 997-1000.	2.5	2
28	Polarization-maintaining nonlinear-amplifying-loop-mirror mode-locked fiber laser based on a 3â€‰â€‰Ã—â€‰â€‰3 coupler. Optics Letters, 2019, 44, 1068.	3.3	32
29	Graphene-based saturable absorber and mode-locked laser behaviors under gamma-ray radiation. Photonics Research, 2019, 7, 742.	7.0	15
30	Attosecond Relative Timing Jitter between Optical Pulses and Rising Edges of Photocurrent Pulses. , 2019, , .		0
31	Femtosecond Laser-Based Time-of-Flight (TOF) Sensors. , 2019, , .		0
32	Repetition-Rate Multiplication of Mode-locked Lasers Using Harmonic Injection Locking and Gain-Saturated SOA. , 2019, , .		0
33	Asymmetric fiber delay line interferometer based noise measurement platform for Er: fiber optical frequency combs. , 2019, , .		0
34	Rapid and Precise Displacement Measurement Using Time-of-Flight Detection of Femtosecond Optical Pulses. , 2019, , .		0
35	Frequency comb-based one-way RF frequency transfer across a 880-m-long outdoor atmospheric link with 10-16 instability. , 2019, , .		0
36	Precise and large-dynamic-range surface profilometry using time-of-flight detection of femtosecond optical pulses. , 2019, , .		0

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37	Polarization-maintaining (PM) nonlinear-amplifying-loop-mirror (NALM) mode-locked fiber laser utilizing a 3x3 coupler. , 2019, , .		0
38	Simple all-fiber optical-microwave phase detector for subfemtosecond synchronization. , 2018, , .		0
39	Low-Noise Ultrafast Fiber Lasers. , 2018, , .		0
40	Highly tunable repetition-rate multiplication of mode-locked lasers using all-fibre harmonic injection locking. Scientific Reports, 2018, 8, 13875.	3.3	18
41	Compact Phase Detector for Optical-Microwave Synchronization Using Polarization Modulation. Journal of Lightwave Technology, 2018, 36, 4267-4272.	4.6	11
42	Time-of-flight detection of femtosecond laser pulses for precise measurement of large microelectronic step height. Optics Letters, 2018, 43, 1447.	3.3	21
43	All-fiber-photonics-based ultralow-noise agile frequency synthesizer for X-band radars. Photonics Research, 2018, 6, 12.	7.0	14
44	Simple-structured, subfemtosecond-resolution optical-microwave phase detector. Optics Letters, 2018, 43, 3997.	3.3	29
45	Reference-free, high-resolution measurement method of timing jitter spectra of optical frequency combs. Scientific Reports, 2017, 7, 40917.	3.3	58
46	10-fs-level synchronization of photocathode laser with RF-oscillator for ultrafast electron and X-ray sources. Scientific Reports, 2017, 7, 39966.	3.3	27
47	Introduction to the Issue on Reports From the Invited and Postdeadline Speakers of CLEO 2016. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 3-5.	2.9	0
48	Ultrasensitive, high-dynamic-range and broadband strain sensing by time-of-flight detection with femtosecond-laser frequency combs. Scientific Reports, 2017, 7, 13305.	3.3	16
49	A compact optical-microwave phase detector based on a polarization modulator. , 2017, , .		1
50	Simple and high-resolution timing jitter measurement method of optical frequency combs. , 2017, , .		0
51	Ultra-low phase noise synchronization of microwave sources with fiber-optic timing system. , 2017, , .		0
52	All-fiber interferometer-based repetition-rate stabilization of mode-locked lasers to 10^â^'14-level frequency instability and 1-fs-level jitter over 1â€‰â€‰s. Optics Letters, 2017, 42, 5186.	3.3	16
53	Intensity noise suppression in mode-locked fiber lasers by double optical bandpass filtering. Optics Letters, 2017, 42, 4095.	3.3	24
54	Noise reduction of nonlinear-amplifying-loop-mirror-based fiber lasers by combined intra- and extra-cavity filtering. , 2017, , .		0

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55	Robust, low-noise, polarization-maintaining mode-locked Er-fiber laser with a planar lightwave circuit (PLC) device as a multi-functional element. Optics Letters, 2017, 42, 1472.	3.3	9
56	Low-noise optical frequency combs and their applications in microwave photonics. , 2016, , .		1
57	Femtosecond Laser-Based Microwave Signal Generation and Distribution. Journal of Lightwave Technology, 2016, 34, 4631-4638.	4.6	4
58	Ultralow-noise mode-locked fiber lasers and frequency combs: principles, status, and applications. Advances in Optics and Photonics, 2016, 8, 465.	25.5	326
59	Few-femtosecond timing jitter from a picosecond all-polarization-maintaining Yb-fiber laser. Optics Express, 2016, 24, 1347.	3.4	38
60	High Precision Synchronization of a Large-scale Microwave Network over Stabilized Fiber Links. , 2016, , .		3
61	All-fiber repetition-rate stabilization of mode-locked lasers to 1.7Ã—10â˜'13 instability with sub-fs integrated jitter. , 2016, , .		0
62	All-Fiber Mode-Locked Soliton Er-Lasers Employing Planar Lightwave Circuit (PLC) Devices. , 2016, , .		0
63	Optimized Spectral Filtering for Few-Femtosecond Timing Jitter from a Picosecond Fiber Laser. , 2016, , .		0
64	10-fs-level synchronization of a photocathode laser with an S-band RF oscillator for an RF photocathode gun. , 2016, , .		0
65	All-fiber repetition-rate stabilization of mode-locked lasers for ultralow-noise microwave generation. , 2016, , .		1
66	Ultrahigh-precision measurement and optimization of timing jitter in mode-locked lasers. , 2015, , .		1
67	5-Femtosecond Laser-Electron Synchronization for Pump-Probe Crystallography and Diffraction. Physical Review Applied, 2015, 4, .	3.8	42
68	All-fibre photonic signal generator for attosecond timing and ultralow-noise microwave. Scientific Reports, 2015, 5, 16250.	3.3	59
69	300-MHz-repetition-rate, all-fiber, femtosecond laser mode-locked by planar lightwave circuit-based saturable absorber. Optics Express, 2015, 23, 26234.	3.4	13
70	All-fiber soliton Er-laser mode-locked by a planar lightwave circuit (PLC)-based CNT saturable absorber. , 2015, , .		0
71	Attosecond-precision microwave photonics based on ultralow-jitter mode-locked lasers. , 2015, , .		0
72	Characterization of timing jitter spectra in free-running mode-locked lasers with 340â€‰â€‰dB dynamic range over 10 decades of Fourier frequency. Optics Letters, 2015, 40, 316.	3.3	29

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73	Timing Jitter of Normal-Dispersion Mode-Locked Er- and Yb-Fiber Lasers. , 2015, , .		0
74	Characterization and analysis of timing jitter in normal-dispersion mode-locked Er-fiber lasers with intra-cavity filtering. Optics Express, 2015, 23, 22898.	3.4	23
75	Ultralow-Jitter Mode-Locked Fiber Lasers and Their Applications. , 2015, , .		0
76	High-Precision Microwave Phase Transfer and Remote Synchronization Using Frequency Combs. , 2015, , .		0
77	Attosecond-Resolution Timing Jitter Spectrum Measurement of Free-Running Mode-Locked Lasers Over 10 Decades of Fourier Frequency. , 2015, , .		0
78	Attosecond-Resolution Time-of-Flight Stabilization of Optical Pulse Train in 76-m Indoor Atmospheric Link. , 2015, , .		0
79	200-MHz Repetition-Rate, All-Fiber Soliton Er-Laser Mode-Locked by a Planar Lightwave Circuit-Based Carbon Nanotube Saturable Absorber. , 2015, , .		0
80	Few-Femtosecond Synchronization Between a Few-MHz Ti:Sapphire Laser and a Multi-GHz Microwave Signal. , 2015, , .		0
81	Few-femtosecond-resolution characterization and suppression of excess timing jitter and drift in indoor atmospheric frequency comb transfer. Optics Express, 2014, 22, 26023.	3.4	22
82	Reduction of timing jitter and intensity noise in normal-dispersion passively mode-locked fiber lasers by narrow band-pass filtering. Optics Express, 2014, 22, 28276.	3.4	51
83	Frequency comb-based microwave transfer over fiber with 7Ã—10^â^'19 instability using fiber-loop optical-microwave phase detectors. Optics Letters, 2014, 39, 1577.	3.3	53
84	Remote Laser-Microwave Synchronization Over Kilometer-Scale Fiber Link With Few-Femtosecond Drift. Journal of Lightwave Technology, 2014, 32, 3742-3748.	4.6	9
85	Microwave transfer through optical frequency comb toward 10^{−19} instability using fiber-loop optical-microwave phase detectors. , 2014, , .		0
86	Sub-20-Attosecond Timing Jitter Mode-Locked Fiber Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 260-267.	2.9	25
87	Gigahertz repetition rate, sub-femtosecond timing jitter optical pulse train directly generated from a mode-locked Yb:KYW laser. Optics Letters, 2014, 39, 56.	3.3	17
88	Microwave synthesis and remote transfer using attosecond-jitter mode-locked fiber lasers. , 2014, , .		1
89	Attosecond-jitter fiber and waveguide lasers and their ultrahigh-precision microwave photonic applications. , 2014, , .		0
90	1.13-GHz Repetition Rate, Sub-Femtosecond Timing Jitter, CNT-Mode-Locked Ultrafast Yb:KYW Laser. , 2014, , .		0

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91	Timing jitter reduction in self-similar Yb-fiber lasers via narrow intra-cavity bandpass filtering. , 2014, , .		0
92	Ultralow Phase Noise Microwave Generation From Mode-Locked Er-Fiber Lasers With Subfemtosecond Integrated Timing Jitter. IEEE Photonics Journal, 2013, 5, 5500906-5500906.	2.0	44
93	Sub-femtosecond timing jitter, all-fiber, CNT-mode-locked Er-laser at telecom wavelength. Optics Express, 2013, 21, 26533.	3.4	30
94	Fiber optic cable-based high-resolution, long-distance VGA extenders. Proceedings of SPIE, 2013, , .	0.8	0
95	Reduction of timing jitter to the sub-20-attosecond regime in free-running femtosecond mode-locked fiber lasers. , 2013, , .		3
96	Few-femtosecond jitter microwave signal generation from free-running mode-locked Er-fiber lasers. , 2013, , .		0
97	Attosecond Timing Jitter, CNT-Mode-Locked All-Fiber Laser at Telecom Wavelength. , 2013, , .		0
98	1.2-GHz repetition rate, diode-pumped femtosecond Yb:KYW laser mode-locked by a CNT saturable absorber. , 2013, , .		0
99	Subfemtosecond synchronization of microwave oscillators with mode-locked Er-fiber lasers. Optics Letters, 2012, 37, 2958.	3.3	136
100	Degradation of optical properties of a film-type single-wall carbon nanotubes saturable absorber (SWNT-SA) with an Er-doped all-fiber laser. Optics Express, 2012, 20, 12966.	3.4	42
101	12-GHz repetition rate, diode-pumped femtosecond Yb:KYW laser mode-locked by a carbon nanotube saturable absorber mirror. Optics Express, 2012, 20, 29518.	3.4	25
102	Low timing jitter and intensity noise from a soliton Er-fiber laser mode-locked by a fiber taper carbon nanotube saturable absorber. Optics Express, 2012, 20, 29524.	3.4	28
103	Progress in ultrafast fiber lasers for ultralow-jitter signal sources. Proceedings of SPIE, 2012, , .	0.8	0
104	Long-term stable sub-femtosecond synchronization of microwave signals with mode-locked Er-fiber lasers. , 2012, , .		3
105	Microwave signal synchronized with a mode-locked Er-fiber laser with ultralow residual phase noise and drift. , 2012, , .		1
106	Attosecond-level timing jitter mode-locked fiber lasers. , 2012, , .		0
107	Femtosecond timing jitter from soliton fiber lasers mode-locked by carbon nanotube saturable absorbers. , 2012, , .		0
108	Characterization and suppression of excess timing noise in the indoor atmospheric transfer of optical pulse trains. , 2012, , .		0

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109	Ultra-low timing and intensity noise from mode-locked Yb-fiber lasers at close-to-zero intra-cavity dispersion. , 2011, , .		0
110	Timing jitter optimization of mode-locked Yb-fiber lasers toward the attosecond regime. Optics Express, 2011, 19, 14518.	3.4	115
111	Impact of pulse dynamics on timing jitter in mode-locked fiber lasers. Optics Letters, 2011, 36, 1761.	3.3	55
112	Sub-100-as timing jitter optical pulse trains from mode-locked Er-fiber lasers. Optics Letters, 2011, 36, 4443.	3.3	109
113	Integrated optical phase locked loop. , 2011, , .		1
114	Sub-femtosecond timing jitter optical pulse trains from mode-locked Er-fiber lasers. , 2011, , .		1
115	Attosecond-resolution timing jitter characterization of Yb-fiber lasers in stretched-pulse and self-similar regimes. , 2011, , .		0
116	Long-term, Long-distance, All-optical Synchronization of Ultrafast Fiber Lasers at the Quantum Limit. , 2010, , .		1
117	Attosecondâ€precision ultrafast photonics. Laser and Photonics Reviews, 2010, 4, 432-456.	8.7	69
118	Femtosecond lasers for attosecond timing control. , 2010, , .		1
119	Femtosecond precision timing distribution for accelerators and Light Sources. , 2010, , .		2
120	Microwave signal extraction from femtosecond mode-locked lasers with attosecond relative timing drift. Optics Letters, 2010, 35, 2022.	3.3	48
121	Complete characterization of quantum-limited timing jitter in passively mode-locked fiber lasers. Optics Letters, 2010, 35, 3522.	3.3	40
122	Subfemtosecond-Drift Microwave Signal Synthesis from Femtosecond Mode-Locked Lasers. , 2010, , .		0
123	Phase noise measurement of mode locked lasers using guided wave PPKTP balanced cross correlators. , 2010, , .		0
124	Attosecond resolution timing jitter characterization of diode pumped femtosecond Cr:LiSAF lasers. , 2010, , .		0
125	Long-Term Stable Timing Distribution of an Ultrafast Optical Pulse Train over Multiple Fiber Links with Polarization Maintaining Output. , 2009, , .		4
126	10-femtosecond Precision, Long-term Stable Timing Distribution Over Multiple Fiber Links. Springer Series in Chemical Physics, 2009, , 947-949.	0.2	0

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127	Drift-free femtosecond timing synchronization of remote optical and microwave sources. Nature Photonics, 2008, 2, 733-736.	31.4	349
128	Controlled waveforms on the single-cycle scale from a femtosecond oscillator. Optics Express, 2008, 16, 9739.	3.4	60
129	Photonic subsampling analog-to-digital conversion of microwave signals at 40-GHz with higher than 7-ENOB resolution. Optics Express, 2008, 16, 16509.	3.4	116
130	Optical and microwave timing transfer and synchronization using optical pulse trains. , 2008, , .		1
131	Low-drift and low-jitter microwave signal synthesis from mode-locked lasers. , 2008, , .		1
132	Photonic Analog-to-Digital Conversion with Femtosecond Lasers. Frequenz, 2008, 62, .	0.9	5
133	Attosecond-resolution timing jitter characterization of free-running mode-locked lasers. , 2008, , .		3
134	Microwave signal regeneration from mode-locked lasers with 1.9×10^{−19} stability. , 2008, , .		0
135	Sub-femtosecond timing distribution of an ultrafast optical pulse train over multiple fiber links. , 2008, , .		1
136	7-ENOB resolution photonic analog-to-digital conversion of narrowband microwave signals at 40 GHz. , 2008, , .		0
137	Long-Term Femtosecond Timing Link Stabilization Using a Single-Crystal Balanced Cross-Correlator. , 2007, , .		4
138	Long-Term Stable Microwave Signal Extraction from Mode-Locked Lasers. , 2007, , .		0
139	Large Scale, Femtosecond Timing Distribution. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
140	Long-term femtosecond timing link stabilization using a single-crystal balanced cross correlator. Optics Letters, 2007, 32, 1044.	3.3	107
141	Attosecond-resolution timing jitter characterization of free-running mode-locked lasers. Optics Letters, 2007, 32, 3519.	3.3	132
142	Long-term stable microwave signal extraction from mode-locked lasers. Optics Express, 2007, 15, 8951.	3.4	16
143	Large-Scale, Long-Term Stable Femtosecond Timing Distribution and Synchronization Systems. LEOS Summer Topical Meeting, 2007, , .	0.0	0
144	Balanced optical-microwave phase detectors for optoelectronic phase-locked loops. Optics Letters, 2006, 31, 3659.	3.3	62

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145	Self-Referenced 200 MHz Octave-Spanning Ti:Sapphire Laser with 50 Attosecond Carrier-Envelope Phase Jitter. Optics Express, 2005, 13, 5163.	3.4	52
146	Ultrabroadband beam splitter with matched group-delay dispersion. Optics Letters, 2005, 30, 1569.	3.3	31
147	Direct frequency comb generation from an octave-spanning, prismless Ti:sapphire laser. Optics Letters, 2004, 29, 1683.	3.3	97
148	Femtosecond synchronization of radio frequency signals with optical pulse trains. Optics Letters, 2004, 29, 2076.	3.3	55
149	Toward single-cycle laser systems. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 990-1001.	2.9	58
150	Attosecond active synchronization of passively mode-locked lasers by balanced cross correlation. Optics Letters, 2003, 28, 947.	3.3	236