

Zhi-Chao Luo

List of Publications by Year in descending order

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152
papers

6,080
citations

66343

42
h-index

79698

73
g-index

152
all docs

152
docs citations

152
times ranked

2429
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulsating dynamics in a pure-quartic soliton fiber laser. Optics Letters, 2022, 47, 1750.	3.3	22
2	Dissipative pure-quartic soliton fiber laser. Optics Express, 2022, 30, 22066.	3.4	18
3	Biaxial structured illumination microscopy with high measurement accuracy based on product processing. Optics and Laser Technology, 2022, 153, 108251.	4.6	0
4	Dissipative rogue waves generated by multi-soliton explosions in an ultrafast fiber laser. Optics Express, 2022, 30, 22143.	3.4	12
5	Wavelength-tunable Q-switched Mode-locked Multimode Fiber Laser. , 2022, , .		1
6	Diverse Pulsating Solitons in Spatiotemporal Mode-locked Fiber Laser. , 2022, , .		1
7	Switchable femtosecond and picosecond spatiotemporal mode-locked fiber laser based on NALM and multimode interference filtering effects. Optics and Laser Technology, 2022, 155, 108414.	4.6	10
8	Switchable and spacing tunable dual-wavelength spatiotemporal mode-locked fiber laser. Optics Letters, 2021, 46, 588.	3.3	42
9	Tunable spatiotemporal mode-locked fiber laser at 1.55 μm . Optics Express, 2021, 29, 9465.	3.4	36
10	1.7- μm dissipative soliton Tm-doped fiber laser. Photonics Research, 2021, 9, 873.	7.0	38
11	Polarization-dependent dissipative soliton intensity modulation enabled repetition-rate-switchable CPA system. Optics and Laser Technology, 2021, 138, 106912.	4.6	0
12	Characterization of the spectral memory effect of scattering media. Optics Express, 2021, 29, 26944.	3.4	7
13	All Few-mode Fiber Spatiotemporal Mode-Locked Figure-eight Laser. Journal of Lightwave Technology, 2021, 39, 5611-5616.	4.6	20
14	Mutually induced soliton polarization instability in a bidirectional ultrafast fiber laser. Optics Letters, 2021, 46, 4848.	3.3	9
15	Bidirectional ultrahigh-repetition-rate ultrafast fiber laser. Optics and Laser Technology, 2021, 142, 107196.	4.6	12
16	Autosetting soliton pulsation in a fiber laser by an improved depth-first search algorithm. Optics Express, 2021, 29, 34684.	3.4	7
17	Over 80 nJ Sub-100 fs All-Fiber Mamyshev Oscillator. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-5.	2.9	17
18	1.7- μm Tm-fiber chirped pulse amplification system with dissipative soliton seed laser. Optics Letters, 2021, 46, 5922.	3.3	13

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19	Versatile mode-locked patterns in a fiber laser using silica-coated gold nanorods as saturable absorber. <i>Laser Physics</i> , 2020, 30, 065104.	1.2	11
20	Visualizing the "Invisible" Soliton Pulsation in an Ultrafast Laser. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900317.	8.7	73
21	Pulses with switchable wavelengths and hysteresis in an all-fiber spatio-temporal mode-locked laser. <i>Applied Physics Express</i> , 2020, 13, 022008.	2.4	29
22	Wavelength-tunable bidirectional passively Q-switched Er-doped fiber laser incorporating a single-walled carbon nanotube and tunable bandpass filter. <i>Applied Optics</i> , 2020, 59, 2709.	1.8	7
23	Buildup dynamics in an all-polarization-maintaining Yb-doped fiber laser mode-locked by nonlinear polarization evolution. <i>Optics Express</i> , 2020, 28, 24550.	3.4	12
24	Vector features of pulsating soliton in an ultrafast fiber laser. <i>Optics Express</i> , 2020, 28, 32010.	3.4	19
25	Exploding soliton in an anomalous-dispersion fiber laser. <i>Optics Letters</i> , 2020, 45, 531.	3.3	29
26	Multipulse dynamics in a Mamyshev oscillator. <i>Optics Letters</i> , 2020, 45, 2620.	3.3	27
27	Grayscale-relaxation photoacoustic microscopy at 1.7 μm and its application in lipid imaging. <i>Optics Letters</i> , 2020, 45, 3268.	3.3	11
28	"Periodic" soliton explosions in a dual-wavelength mode-locked Yb-doped fiber laser. <i>Photonics Research</i> , 2020, 8, 246.	7.0	48
29	Dynamic polarization attractors of dissipative solitons from carbon nanotube mode-locked Er-doped laser. <i>Nanophotonics</i> , 2020, 9, 2437-2443.	6.0	8
30	Recent progress on applications of 2D material-decorated microfiber photonic devices in pulse shaping and all-optical signal processing. <i>Nanophotonics</i> , 2020, 9, 2641-2671.	6.0	21
31	Transient Soliton Dynamics from Stationary to Pulsation in Fiber Laser. , 2020, , .		0
32	Vortex soliton molecule in a fiber laser. <i>Optics Express</i> , 2020, 28, 9666.	3.4	4
33	Ultrafast and broadband optical nonlinearity in aluminum doped zinc oxide colloidal nanocrystals. <i>Nanoscale</i> , 2019, 11, 13988-13995.	5.6	22
34	Microstructure ring fiber for supporting higher-order orbital angular momentum modes with flattened dispersion in broad waveband. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	2.2	17
35	Heavily Doped Semiconductor Colloidal Nanocrystals as Ultra-Broadband Switches for Near-Infrared and Mid-Infrared Pulse Lasers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40416-40423.	8.0	14
36	Vector Effects of Dissipative Soliton in All-Fiber MOPA System. <i>IEEE Photonics Journal</i> , 2019, 11, 1-8.	2.0	3

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37	Soliton Pulsation with Invariable Energy in an Ultrafast Fiber Laser. , 2019, , .		0
38	Dynamical diversity of pulsating solitons in a fiber laser. Optics Express, 2019, 27, 28507.	3.4	52
39	Behavioral similarity of dissipative solitons in an ultrafast fiber laser. Optics Letters, 2019, 44, 4813.	3.3	24
40	Mode locking and multiwavelength Q-switching in a dumbbell-shaped fiber laser with a gold nanorod saturable absorber. Optical Engineering, 2019, 58, 1.	1.0	5
41	Real-time visualization of soliton molecules with evolving behavior in an ultrafast fiber laser. Journal of Optics (United Kingdom), 2018, 20, 034010.	2.2	30
42	Broadband High-Energy All-Fiber Laser at 1.6 μm . IEEE Photonics Technology Letters, 2018, 30, 311-314.	2.5	18
43	Composite film with anisotropically enhanced optical nonlinearity for a pulse-width tunable fiber laser. Journal of Materials Chemistry C, 2018, 6, 1126-1135.	5.5	18
44	Soliton Booting Dynamics in an Ultrafast Anomalous Dispersion Fiber Laser. IEEE Photonics Journal, 2018, 10, 1-9.	2.0	18
45	Black phosphorus quantum dots for femtosecond laser photonics. Optics Communications, 2018, 406, 85-90.	2.1	33
46	Identification of Coherent and Incoherent Spectral Sidebands in an Ultrafast Fiber Laser. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-6.	2.9	7
47	Chaotic behavior of pulsating soliton in a fiber laser. , 2018, , .		0
48	Pulsations of single soliton and dual-soliton bunch in a fiber laser with net-normal dispersion. , 2018, , .		0
49	Mode-locked pulses in a multimode fiber laser. , 2018, , .		1
50	Two-dimensional materials-decorated microfiber devices for pulse generation and shaping in fiber lasers. Chinese Physics B, 2018, 27, 094215.	1.4	15
51	Optical Rogue Waves by Random Dissipative Soliton Buildup in a Fiber Laser. IEEE Photonics Technology Letters, 2018, 30, 1803-1806.	2.5	13
52	Buildup dynamics of dissipative soliton in an ultrafast fiber laser with net-normal dispersion. Optics Express, 2018, 26, 2972.	3.4	93
53	Coexistence of rectangular and Gaussian-shape noise-like pulses in a figure-eight fiber laser. Optics Express, 2018, 26, 17804.	3.4	19
54	Graphene-decorated microfiber knot as a broadband resonator for ultrahigh-repetition-rate pulse fiber lasers. Photonics Research, 2018, 6, C1.	7.0	51

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73	Universal Near-Infrared and Mid-Infrared Optical Modulation for Ultrafast Pulse Generation Enabled by Colloidal Plasmonic Semiconductor Nanocrystals. ACS Nano, 2016, 10, 9463-9469.	14.6	98
74	Pulsed erbium-doped fiber laser by a few-layer molybdenum disulfide saturable absorber: from Q-switching to mode-locking. Optical Engineering, 2016, 55, 081308.	1.0	25
75	Wavelength-switchable femtosecond pulse fiber laser mode-locked by silica-encased gold nanorods. Laser Physics Letters, 2016, 13, 045101.	1.4	21
76	Successive soliton explosions in an ultrafast fiber laser. Optics Letters, 2016, 41, 1181.	3.3	133
77	Wiggling and bending-free spatial solitons at the interface between photovoltaic photorefractive crystals with opposite diffusion effects. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 2209.	2.1	3
78	Flexible generation of coherent rectangular pulse from an ultrafast fiber laser based on dispersive Fourier transformation technique. Optics Express, 2015, 23, 27315.	3.4	4
79	Multiple vector solitons in an ytterbium-doped fiber laser based on evanescent field interaction with graphene saturable absorber. , 2015, , .		2
80	Two-dimensional materials-deposited microfiber as highly-nonlinear photonic device for pulse shaping in a fiber laser. , 2015, , .		0
81	Dissipative rogue waves induced by long-range chaotic multi-pulse interactions in a fiber laser with a topological insulator-deposited microfiber photonic device. Optics Letters, 2015, 40, 4767.	3.3	76
82	Gold nanorod as saturable absorber for Q-switched Yb-doped fiber laser. Optics Communications, 2015, 346, 21-25.	2.1	43
83	Microfiber-Based Highly Nonlinear Topological Insulator Photonic Device for the Formation of Versatile Multi-Soliton Patterns in a Fiber Laser. Journal of Lightwave Technology, 2015, 33, 2056-2061.	4.6	41
84	Generation of a noiselike soliton molecule induced by a comb filter in a figure-eight fiber laser. Applied Physics Express, 2015, 8, 042702.	2.4	8
85	Dual-wavelength single-longitudinal-mode fiber laser with switchable wavelength spacing based on a graphene saturable absorber. Photonics Research, 2015, 3, A21.	7.0	13
86	Analytical identification of soliton dynamics in normal-dispersion passively mode-locked fiber lasers: from dissipative soliton to dissipative soliton resonance. Optics Express, 2015, 23, 14860.	3.4	14
87	Nanocomposites with gold nanorod/silica core-shell structure as saturable absorber for femtosecond pulse generation in a fiber laser. Optics Express, 2015, 23, 22602.	3.4	29
88	Few-layer MoS ₂ -deposited microfiber as highly nonlinear photonic device for pulse shaping in a fiber laser [Invited]. Photonics Research, 2015, 3, A69.	7.0	66
89	Noise-like pulse trapping in a figure-eight fiber laser. Optics Express, 2015, 23, 10421.	3.4	50
90	Microfiber-based few-layer black phosphorus saturable absorber for ultra-fast fiber laser. Optics Express, 2015, 23, 20030.	3.4	399

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91	High power L-band mode-locked fiber laser based on topological insulator saturable absorber. Optics Express, 2015, 23, 23053.	3.4	58
92	Influence of lattice defects on the coherent interaction of photovoltaic lattice solitons. Journal of Optics (United Kingdom), 2015, 17, 105902.	2.2	3
93	Graphene-deposited microfiber photonic device for ultrahigh-repetition rate pulse generation in a fiber laser. Optics Express, 2015, 23, 17720.	3.4	26
94	Generation of high-energy dual-wavelength domain wall pulse with low repetition rate in an HNLF-based fiber ring laser. Chinese Physics B, 2014, 23, 064203.	1.4	6
95	Femtosecond pulse generation from a topological insulator mode-locked fiber laser. Optics Express, 2014, 22, 6868.	3.4	266
96	Dual-wavelength single-frequency fiber laser based on graphene saturable absorber. , 2014, , .		1
97	Microfiber-based few-layer MoS ₂ saturable absorber for 25 GHz passively harmonic mode-locked fiber laser. Optics Express, 2014, 22, 22841.	3.4	163
98	Dual-wavelength rectangular pulse Yb-doped fiber laser using a microfiber-based graphene saturable absorber. Optics Express, 2014, 22, 10906.	3.4	108
99	Microfiber-based, highly nonlinear graphene saturable absorber for formation of versatile structural soliton molecules in a fiber laser. Optics Express, 2014, 22, 27019.	3.4	42
100	Femtosecond pulse erbium-doped fiber laser by a few-layer MoS ₂ saturable absorber. Optics Letters, 2014, 39, 4591.	3.3	356
101	Microfiber-based gold nanorods as saturable absorber for femtosecond pulse generation in a fiber laser. Applied Physics Letters, 2014, 105, .	3.3	96
102	Trapping of Soliton Molecule in a Graphene-Based Mode-Locked Ytterbium-Doped Fiber Laser. IEEE Photonics Technology Letters, 2014, 26, 2450-2453.	2.5	19
103	Generation of Multiwavelength Noise-Like Square-Pulses in a Fiber Laser. IEEE Photonics Technology Letters, 2014, 26, 1990-1993.	2.5	23
104	High-energy noiselike rectangular pulse in a passively mode-locked figure-eight fiber laser. Applied Physics Express, 2014, 7, 042701.	2.4	51
105	Observation of Three Bound States From a Topological Insulator Mode-Locked Soliton Fiber Laser. IEEE Photonics Journal, 2014, 6, 1-8.	2.0	7
106	Vector nature of multi-soliton patterns in a passively mode-locked figure-eight fiber laser. Optics Express, 2014, 22, 11900.	3.4	70
107	Demonstration of Multiwavelength Erbium-Doped Fiber Laser Based on a Microfiber Knot Resonator. IEEE Photonics Technology Letters, 2014, 26, 1387-1390.	2.5	17
108	Dual-Wavelength Harmonically Mode-Locked Fiber Laser With Topological Insulator Saturable Absorber. IEEE Photonics Technology Letters, 2014, 26, 983-986.	2.5	129

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109	Intracavity Optical Deposition of Graphene Saturable Absorber for Low-Threshold Passive Mode-Locking of a Fiber Laser. Chinese Physics Letters, 2013, 30, 024207.	3.3	1
110	60 nm Bandwidth, 17 nJ Noiselike Pulse Generation from a Thulium-Doped Fiber Ring Laser. Applied Physics Express, 2013, 6, 112702.	2.4	30
111	Dissipative soliton resonance in a passively mode-locked figure-eight fiber laser. Optics Express, 2013, 21, 2402.	3.4	137
112	Passive harmonic mode-locking in a fiber laser by using a microfiber-based graphene saturable absorber. Laser Physics Letters, 2013, 10, 105107.	1.4	30
113	Vector dissipative soliton resonance in a fiber laser. Optics Express, 2013, 21, 10199.	3.4	42
114	Wave-breaking-free pulse in an all-fiber normal-dispersion Yb-doped fiber laser under dissipative soliton resonance condition. Optics Express, 2013, 21, 27087.	3.4	70
115	2â€‰GHz passively harmonic mode-locked fiber laser by a microfiber-based topological insulator saturable absorber. Optics Letters, 2013, 38, 5212.	3.3	415
116	Polarization-independent multiwavelength switchable flat-top all-fiber comb filter using variable ratio coupler-based Mach-Zehnder interferometer. , 2012, , .		0
117	Brightâ€“Dark Pulse Pair in a Figure-Eight Dispersion-Managed Passively Mode-Locked Fiber Laser. IEEE Photonics Journal, 2012, 4, 1647-1652.	2.0	60
118	Optical deposition of graphene saturable absorber integrated in fiber laser using a slot collimator for pulsed operation: From Q-switching to mode-locking. , 2012, , .		0
119	Optical Deposition of Graphene Saturable Absorber Integrated in a Fiber Laser Using a Slot Collimator for Passive Mode-Locking. Applied Physics Express, 2012, 5, 055103.	2.4	25
120	Polarization-Independent, Multifunctional All-Fiber Comb Filter Using Variable Ratio Coupler-Based Machâ€“Zehnder Interferometer. Journal of Lightwave Technology, 2012, 30, 1857-1862.	4.6	32
121	Pulse dynamics of dissipative soliton resonance with large duration-tuning range in a fiber ring laser. Optics Letters, 2012, 37, 4777.	3.3	112
122	Wide-band tunable passively Q-switched all-fiber ring laser based on nonlinear polarization rotation technique. Laser Physics, 2012, 22, 203-206.	1.2	18
123	Dark pulses with tunable repetition rate emission from fiber ring laser. Optics Communications, 2012, 285, 2113-2117.	2.1	21
124	Generation of dual-wavelength domain-wall rectangular-shape pulses in HNLF-based fiber ring laser. Optics and Laser Technology, 2012, 44, 2260-2264.	4.6	27
125	Generation of Efficient High-Energy Domain-Wall Pulse in a Long-Cavity Fiber Ring Laser. , 2012, , .		0
126	Multiwavelength picosecond and single wavelength femtosecond pulses emission in a passively mode-locked fiber laser using a semiconductor saturable absorber mirror and a contrast ratio tunable comb filter. Applied Optics, 2011, 50, 2831.	2.1	16

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127	Tunable and switchable dual-wavelength passively mode-locked fiber ring laser with high-energy pulses at a sub-100kHz repetition rate. <i>Optics Communications</i> , 2011, 284, 5719-5722.	2.1	10
128	Tunable and Switchable Multiwavelength Passively Mode-Locked Fiber Laser Based on SESAM and Inline Birefringence Comb Filter. <i>IEEE Photonics Journal</i> , 2011, 3, 64-70.	2.0	97
129	Multiwavelength Switchable Erbium-Doped Fiber Ring Laser With a PBS-Based Mach-Zehnder Comb Filter. <i>IEEE Photonics Journal</i> , 2011, 3, 197-202.	2.0	22
130	Switchable dual-wavelength passively mode-locked fiber ring laser using SESAM and cascaded fiber Bragg gratings. <i>Laser Physics</i> , 2011, 21, 395-398.	1.2	23
131	Tunable and switchable dual-wavelength passively mode-locked Bi-doped all-fiber ring laser based on nonlinear polarization rotation. <i>Laser Physics Letters</i> , 2011, 8, 601-605.	1.4	61
132	Switchable dual-wavelength passively Q-switched erbium-doped fiber ring laser using nonlinear polarization rotation technique. <i>Microwave and Optical Technology Letters</i> , 2011, 53, 1000-1003.	1.4	4
133	Tunable and switchable all-fiber comb filter using a PBS-based two-stage cascaded Mach-Zehnder interferometer. <i>Optics Communications</i> , 2011, 284, 4167-4170.	2.1	12
134	Graphene based, wide-band tunable mode-locked soliton fiber ring laser using intracavity birefringence-induced spectral filter. , 2011, , .		0
135	Experimental Observation of Dark Soliton Emitting with Spectral Sideband in an All-Fiber Ring Cavity Laser. <i>Chinese Physics Letters</i> , 2011, 28, 024207.	3.3	6
136	Dual-wavelength dissipative soliton operation of an erbium-doped fibre laser using a nonlinear polarization rotation technique. <i>Chinese Physics B</i> , 2011, 20, 114209.	1.4	4
137	Transition state to mode locking in a passively mode-locked erbium-doped fibre ring laser. <i>Chinese Physics B</i> , 2011, 20, 054203.	1.4	2
138	Suppression of parabolic pulse-pair interaction using dispersion-managed fiber links with non-zero dispersion. <i>Journal of Modern Optics</i> , 2011, 58, 1004-1011.	1.3	5
139	Wavelength switchable all-fiber comb filter using a dual-pass Mach-Zehnder interferometer and its application in multiwavelength laser. <i>Laser Physics</i> , 2010, 20, 1814-1817.	1.2	27
140	Modulation instability induced by cross-phase modulation in a dual-wavelength dispersion-managed soliton fiber ring laser. <i>Applied Physics B: Lasers and Optics</i> , 2010, 100, 811-820.	2.2	15
141	Observation of dark pulse in a dispersion-managed fiber ring laser. <i>Optics Communications</i> , 2010, 283, 4338-4341.	2.1	32
142	Switchable dual-wavelength passively mode-locked fiber laser using SESAM and comb filter. , 2010, , .		1
143	Wavelength switchable flat-top all-fiber comb filter based on a double-loop Mach-Zehnder interferometer. <i>Optics Express</i> , 2010, 18, 6056.	3.4	59
144	Tunable Multiwavelength Passively Mode-Locked Fiber Ring Laser Using Intracavity Birefringence-Induced Comb Filter. <i>IEEE Photonics Journal</i> , 2010, 2, 571-577.	2.0	161

#	ARTICLE	IF	CITATIONS
145	Enhanced multi-pulse formation in a passively mode-locked fiber ring laser with a narrow-band filter. , 2010, , .		1
146	Sideband controllable soliton all-fiber ring laser passively mode-locked by nonlinear polarization rotation. Laser Physics Letters, 2009, 6, 582-585.	1.4	71
147	Channel-spacing switchable multi-wavelength fiber ring laser with one segment of polarization maintain fiber. Laser Physics Letters, 2009, 6, 598-601.	1.4	48
148	The interaction of dual wavelength solitons in fiber laser. Laser Physics Letters, 2009, 6, 816-820.	1.4	32
149	Switchable and tunable dual-wavelength ultrashort pulse generation in a passively mode-locked erbium-doped fiber ring laser. Optics Communications, 2009, 282, 4408-4412.	2.1	28
150	Multi-wavelength erbium-doped fiber ring laser based on wavelength-dependent polarization rotation with a phase modulator and an in-line comb filter. Laser Physics, 2009, 19, 1034-1037.	1.2	19
151	Tunable and switchable multiwavelength erbium-doped fiber ring laser based on a modified dual-pass Mach-Zehnder interferometer. Optics Letters, 2009, 34, 2135.	3.3	124
152	Polarization-Controlled Tunable All-Fiber Comb Filter Based on a Modified Dual-Pass Mach-Zehnder Interferometer. IEEE Photonics Technology Letters, 2009, 21, 1066-1068.	2.5	20