

Yicheng Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6580179/publications.pdf>

Version: 2024-02-01

90
papers

1,417
citations

331259

21
h-index

344852

36
g-index

90
all docs

90
docs citations

90
times ranked

888
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological insulator as an optical modulator for pulsed solid-state lasers. Laser and Photonics Reviews, 2013, 7, L77.	4.4	208
2	SESAM mode-locked Tm:CALGO laser at 2 μm . Optical Materials Express, 2016, 6, 131.	1.6	59
3	Sub-10 optical-cycle passively mode-locked Tm:(Lu _{2/3} Sc _{1/3}) ₂ O ₃ ceramic laser at 2 μm . Optics Express, 2018, 26, 10299.	1.7	59
4	Sub-100-fs Tm:MgWO ₄ laser at 2017-nm mode locked by a graphene saturable absorber. Optics Letters, 2017, 42, 3076.	1.7	57
5	87-fs mode-locked Tm,Ho:CaYAlO ₄ laser at 2043-nm. Optics Letters, 2018, 43, 915.	1.7	56
6	GaSb-based SESAM mode-locked Tm:YAG ceramic laser at 2 μm . Optics Express, 2015, 23, 1361.	1.7	48
7	Milliwatt-class broadband THz source driven by a 112 W, sub-100 fs thin-disk laser. Optics Express, 2019, 27, 30340.	1.7	48
8	78-fs SWCNT-SA mode-locked Tm:CLNGG disordered garnet crystal laser at 2017-nm. Optics Letters, 2018, 43, 4268.	1.7	47
9	Sellmeier equations, group velocity dispersion, and thermo-optic dispersion formulas for CaLnAlO ₄ (Ln = Y, Gd) laser host crystals. Optics Letters, 2017, 42, 2275.	1.7	45
10	Synthesis, spectroscopy, and efficient laser operation of mixed sesquioxide Tm:(Lu,Sc) ₂ O ₃ transparent ceramics. Optical Materials Express, 2017, 7, 4192.	1.6	45
11	Generation of 84-fs pulses from a mode-locked Tm:CNNGG disordered garnet crystal laser. Photonics Research, 2018, 6, 800.	3.4	42
12	SESAM mode-locked Tm:LuYO ₃ ceramic laser generating 54-fs pulses at 2048-nm. Applied Optics, 2020, 59, 10493.	0.9	40
13	Crystal growth, optical spectroscopy and laser action of Tm ³⁺ -doped monoclinic magnesium tungstate. Optics Express, 2017, 25, 3682.	1.7	36
14	Mixed Tm:Ca(Gd,Lu)AlO ₄ a novel crystal for tunable and mode-locked 2 μm lasers. Optics Express, 2019, 27, 9987.	1.7	33
15	Efficient nonlinear compression of a mode-locked thin-disk oscillator to 27-fs at 98-W average power. Optics Letters, 2019, 44, 4115.	1.7	33
16	67-fs pulse generation from a mode-locked Tm,Ho:CLNGG laser at 2083 nm. Optics Express, 2019, 27, 1922.	1.7	32
17	Broadly tunable mode-locked Ho:YAG ceramic laser around 21 μm . Optics Express, 2016, 24, 18003.	1.7	31
18	Sub-80-fs mode-locked Tm,Ho-codoped disordered garnet crystal oscillator operating at 2081-nm. Optics Letters, 2018, 43, 5154.	1.7	29

#	ARTICLE	IF	CITATIONS
19	SWCNT-SA mode-locked Tm:LuYO ₃ ceramic laser delivering 8-optical-cycle pulses at 2.05 μm , Optics Letters, 2020, 45, 459.	1.7	26
20	Thermal and laser characteristics of Nd doped LaO ₁₁ Y ₀₈₉ VO ₄ crystal. Optics Express, 2012, 20, 16524.	1.7	24
21	Comparative study of the spectroscopic and laser properties of Tm ³⁺ , Na ⁺ (Li ⁺)-codoped Ca ₃ Nb ₁₅ Ga ₃₅ O ₁₂ -type disordered garnet crystals for mode-locked lasers. Optical Materials Express, 2018, 8, 2287.	1.6	21
22	Polarized spectroscopy and SESAM mode-locking of Tm,Ho:CALGO. Optics Express, 2022, 30, 7883.	1.7	21
23	Disordered Tm ³⁺ ,Ho ³⁺ -codoped CNGG garnet crystal: Towards efficient laser materials for ultrashort pulse generation at $\lambda/4$. Journal of Alloys and Compounds, 2021, 853, 157100.	2.8	20
24	Kerr-lens mode-locked Tm-doped sesquioxide ceramic laser. Optics Letters, 2021, 46, 3428.	1.7	19
25	Synthesis, spectroscopic characterization and laser operation of Ho ³⁺ in e^{-} mixed(Lu,Sc)2O ₃ ceramics. Journal of Luminescence, 2018, 203, 145-151.	1.5	19
26	Thermo-optic dispersion formulas for YCOB and GdCOB laser host crystals. Optical Materials Express, 2015, 5, 1089.	1.6	18
27	Monoclinic Tm:MgWO ₄ crystal: Crystal-field analysis, tunable and vibronic laser demonstration. Journal of Alloys and Compounds, 2018, 763, 581-591.	2.8	18
28	Sub-100-fs bulk solid-state lasers near 2-micron. , 2019, , .		18
29	Thermal, spectroscopic and laser characterization of monoclinic vanadate Nd:LaVO ₄ crystal. Optics Express, 2013, 21, 31119.	1.7	17
30	Close to transform-limited, few-cycle 12 μJ pulses at 400 kHz for applications in ultrafast spectroscopy. Optics Express, 2016, 24, 19293.	1.7	17
31	Growth and spectral characters of Nd:CaGdAlO ₄ crystal. EPJ Applied Physics, 2016, 74, 10501.	0.3	17
32	Thulium doped LuAG ceramics for passively mode locked lasers. Optics Express, 2017, 25, 7084.	1.7	17
33	Monoclinic Tm ³⁺ :MgWO ₄ : a promising crystal for continuous-wave and passively Q-switched lasers at $\lambda/4$. Optics Letters, 2017, 42, 1177.	1.7	17
34	Spectral and lasing investigations of Yb:YSGG crystal. Optics Express, 2013, 21, 16305.	1.7	15
35	Spectroscopy and efficient laser operation around 2.8 μm of Er:(Lu,Sc)2O ₃ sesquioxide ceramics. Journal of Luminescence, 2021, 240, 118373.	1.5	14
36	Cryogenically cooled GaP for optical rectification at high excitation average powers. Optical Materials Express, 2020, 10, 2768.	1.6	12

#	ARTICLE	IF	CITATIONS
37	Tm,Ho:Ca(Gd,Lu)AlO ₄ crystals: Crystal growth, structure refinement and Judd-Ofelt analysis. Journal of Luminescence, 2022, 246, 118828.	1.5	12
38	Single-walled carbon-nanotube saturable absorber assisted Kerr-lens mode-locked Tm:MgWO ₄ laser. Optics Letters, 2020, 45, 6142.	1.7	11
39	134-µm VECSEL mode-locked with a GaSb-based SESAM. Optics Letters, 2018, 43, 3353.	1.7	10
40	Crystal growth, spectroscopy and first laser operation of a novel disordered tetragonal Tm:Na ₂ La ₄ (WO ₄) ₇ tungstate crystal. Journal of Luminescence, 2018, 203, 676-682.	1.5	10
41	Moving towards high-power thin-disk lasers in the 2 µm wavelength range. JPhys Photonics, 2021, 3, 022002.	2.2	9
42	Spectroscopy and laser operation of highly-doped 10 at.% Yb:(Lu,Sc) ₂ O ₃ ceramics. Optical Materials, 2021, 117, 111128.	1.7	9
43	Growth and characterization of Nd:Bi ₁₂ SiO ₂₀ single crystal. Optics Communications, 2012, 285, 3961-3966.	1.0	8
44	Semiconductor saturable absorber Q-switching of a holmium micro-laser. Optics Express, 2017, 25, 4579.	1.7	8
45	52-fs SESAM Mode-Locked Tm,Ho:CALGO Laser. , 2019, , .		7
46	High-power modelocked thin-disk oscillators as potential technology for high-rate material processing. Advanced Optical Technologies, 2021, 10, 247-261.	0.9	7
47	Ultrafast laser inscribed waveguide lasers in Tm:CALGO with depressed-index cladding. Optics Express, 2020, 28, 3528.	1.7	6
48	Spectroscopy and diode-pumped laser operation of transparent Tm:Lu ₃ Al ₅ O ₁₂ ceramics produced by solid-state sintering. Optics Express, 2020, 28, 28399.	1.7	6
49	SWCNT-SA mode-locked Tm,Ho:LCLNGG laser. Optics Express, 2021, 29, 40323.	1.7	6
50	Generation of Crystal-Structure Transverse Patterns via a Self-Frequency-Doubling Laser. Scientific Reports, 2013, 3, 1085.	1.6	5
51	Dual-wavelength laser with topological charge. AIP Advances, 2013, 3, .	0.6	5
52	Ho:KY(WO ₄) ₂ thin-disk laser passively Q-switched by a GaSb-based SESAM. Optics Express, 2018, 26, 9011.	1.7	5
53	Tm:CaGdAlO ₄ : spectroscopy, microchip laser and passive Q-switching by carbon nanostructures. , 2017, , .		4
54	Tm ³⁺ -doped calcium lithium tantalum gallium garnet (Tm:CLTGG): novel laser crystal. Optical Materials Express, 2021, 11, 2938.	1.6	3

#	ARTICLE	IF	CITATIONS
55	Sub-10 optical-cycle mode-locked Tm:(Lu ₂ /3Sc ₁ /3)2O ₃ mixed ceramic laser at 2057 nm. , 2017, , .		2
56	SESAM-modelocked Ho:YAG thin-disk laser with 40.5 W of average power. , 2021, , .		1
57	High-power Ho:YAG thin-disk laser and first SESAM modelocking. , 2020, , .		1
58	Growth, Characterization and Laser Operation of Tm ³⁺ , Na ⁺ codoped CNGG (Tm:CNNGG) Disordered Garnet. , 2018, , .		1
59	Passively Mode-Locked Tm:LuAG Ceramic Laser. , 2017, , .		1
60	Growth, Spectroscopy and Laser Operation in Disordered Tm,Ho:Ca(Gd,Lu)AlO ₄ Crystals. , 2020, , .		1
61	Graphene mode-locked Tm,Ho-codoped crystalline garnet laser producing 70-fs pulses near 2100 nm. OSA Continuum, 2019, 2, 2593.	1.8	1
62	Thermo-Optic Dispersion Formulas for YCOB and GdCOB Laser Host Crystals. , 2015, , .		0
63	Semiconductor Saturable Absorber Q-Switching of a Holmium Microchip Laser. , 2016, , .		0
64	Single-walled carbon nanotubes oust graphene and semiconductor saturable absorbers in Q-switched solid-state lasers at 2100 nm. , 2017, , .		0
65	Passively mode-locked femtosecond Tm:MgWO ₄ laser. , 2017, , .		0
66	Monoclinic Tm ³⁺ :MgWO ₄ A novel efficient laser emitting above 2100 nm. , 2017, , .		0
67	Sub-60 fs SESAM Mode-Locked Tm:LuYO ₃ Ceramic Laser. , 2019, , .		0
68	76 fs SWCNT-SA Mode-Locked Tm:MgWO ₄ Laser at 2100 nm. , 2019, , .		0
69	Growth, Spectroscopy and Laser Operation of Tm,Ho:CNNGG: A Promising Disordered Crystal for Mode-Locked Lasers. , 2019, , .		0
70	Efficient Laser Operation of Transparent "Mixed" 7 at.% Er:(Lu,Sc)2O ₃ Sesquioxide Ceramics near 2.8 μm. , 2021, , .		0
71	Diode-pumped Femtosecond Modelocked Tm,Ho:CLNGG laser at 2093 nm. , 2021, , .		0
72	40 W SESAM-modelocked Ho:YAG thin-disk laser at 2090 nm. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
73	Kerr-lens mode-locked Tm:(Lu,Sc)2O3 ceramic laser generating sub-60-fs pulses at 2.08 μm . , 2021, , .		0
74	SESAM mode-locked Tm:CALGO laser at 2 μm . , 2015, , .		0
75	Sub-100 ns Tm:KLuW and Ho:KLuW Lasers Passively Q-switched with SWCNTs. , 2016, , .		0
76	Passive Q-switching of Ho:YAG ceramic lasers at 2.1 μm . , 2016, , .		0
77	In-band-pumped mode-locked Ho:YAG ceramic laser at 2.1 μm . , 2016, , .		0
78	Sub-100 fs Tm:MgWO4 laser at 2017 nm. , 2017, , .		0
79	Growth, spectroscopy and laser operation of "mixed-Tm:Ca(Gd,Lu)AlO4" A novel crystal for mode-locked lasers. , 2018, , .		0
80	84-fs Pulse Generation from a Mode-Locked Tm,Ho:CLNGG Laser at 2080 nm. , 2018, , .		0
81	2D Materials for Mode-Locking of Bulk 2 Micron Lasers: Alternatives to SESAMs. , 2018, , .		0
82	78-fs Pulses from a SWCNTs Mode-Locked Tm:CLNGG Disordered Garnet Crystal Laser. , 2018, , .		0
83	Spectroscopy and High-Power Laser Operation of Monoclinic Yb3+:MgWO4 crystal. , 2019, , .		0
84	Synthesis, Spectroscopy and Efficient Laser Operation of Tm:Lu3Al5O12 Transparent Ceramics. , 2019, , .		0
85	Sub-60-fs Pulse Generation from a SWCNT Mode-Locked Tm:LuYO3 Ceramic Laser at 2045 nm. , 2019, , .		0
86	Graphene mode-locked Tm,Ho:CLNGG laser with 70-fs pulse duration. , 2019, , .		0
87	100 W-class 2 μm Ho:YAG Thin-Disk Laser. , 2020, , .		0
88	58-fs Pulses Generation from a SWCNT-SA Mode-Locked Mixed Sesquioxide Tm:(Lu,Sc)2O3 Ceramic Laser. , 2020, , .		0
89	Sub-100 fs SWCNT-SA mode-locked Tm,Ho:LCLNGG laser. , 2022, , .		0
90	Diode-pumped and tunable laser operation of Tm,Ho-codoped modified CNGG-type disordered crystals. , 2022, , .		0