

Riccardo Piccoli

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4807323/publications.pdf>

Version: 2024-02-01

68
papers

607
citations

516561

16
h-index

610775

24
g-index

68
all docs

68
docs citations

68
times ranked

707
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct compression of 170-fs 50-cycle pulses down to 1.5 cycles with 70% transmission. Scientific Reports, 2018, 8, 11794.	1.6	78
2	Extreme Raman red shift: ultrafast multimode nonlinear space-time dynamics, pulse compression, and broadly tunable frequency conversion. Optica, 2020, 7, 1349.	4.8	45
3	Quantifying the photothermal conversion efficiency of plasmonic nanoparticles by means of terahertz radiation. APL Photonics, 2019, 4, .	3.0	32
4	Time-domain terahertz compressive imaging. Optics Express, 2020, 28, 3795.	1.7	31
5	Reshaping the phonon energy landscape of nanocrystals inside a terahertz plasmonic nanocavity. Nature Communications, 2018, 9, 763.	5.8	30
6	Solid-state-biased coherent detection of ultra-broadband terahertz pulses. Optica, 2017, 4, 1358.	4.8	27
7	Low repetition rate, hybrid fiber/solid-state, 1064-nm picosecond master oscillator power amplifier laser system. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2960.	0.9	26
8	Effective photodarkening suppression in Yb-doped fiber lasers by visible light injection. Optics Express, 2014, 22, 7638.	1.7	26
9	Terahertz Thermometry: Combining Hyperspectral Imaging and Temperature Mapping at Terahertz Frequencies. Laser and Photonics Reviews, 2017, 11, 1600342.	4.4	25
10	Nonlinear Mid-Infrared Metasurface based on a Phase-Change Material. Laser and Photonics Reviews, 2021, 15, 2000373.	4.4	25
11	Generation of high-field terahertz pulses in an HMQ-TMS organic crystal pumped by an ytterbium laser at 1030 nm. Optics Express, 2018, 26, 2509.	1.7	23
12	Nd:YVO ₄ amplifier for ultrafast low-power lasers. Optics Letters, 2012, 37, 3612.	1.7	21
13	Intense few-cycle visible pulses directly generated via nonlinear fibre mode mixing. Nature Photonics, 0, , .	15.6	20
14	Narrow-bandwidth, ~100-fs seeded optical parametric generation in CdSiP ₂ pumped by Raman-shifted pulses at 1198-nm. Optics Letters, 2013, 38, 3344.	1.7	19
15	Evidence of Photodarkening Mitigation in Yb-Doped Fiber Lasers by Low Power 405 nm Radiation. IEEE Photonics Technology Letters, 2014, 26, 50-53.	1.3	18
16	Narrow-bandwidth, mid-infrared, seeded optical parametric generation in 90° phase-matched CdSiP ₂ crystal pumped by diffraction limited 500-fs pulses at 1064-nm. Optics Letters, 2012, 37, 3219.	1.7	17
17	Fourier-Limited 19-ps Yb-Fiber Seeder Stabilized by Spectral Filtering and Tunable Between 1015 and 1085 nm. IEEE Photonics Technology Letters, 2012, 24, 927-929.	1.3	17
18	Molecular gases for pulse compression in hollow core fibers. Optics Express, 2018, 26, 25426.	1.7	17

#	ARTICLE	IF	CITATIONS
19	Extremely broadband terahertz generation via pulse compression of an Ytterbium laser amplifier. Optics Express, 2019, 27, 32659.	1.7	17
20	Terahertz three-dimensional monitoring of nanoparticle-assisted laser tissue soldering. Biomedical Optics Express, 2020, 11, 2254.	1.5	14
21	Lifetime reduction due to photodarkening phenomenon in ytterbium-doped fibers and rate equation term. Optics Letters, 2013, 38, 4370.	1.7	11
22	Invited Article: Ultra-broadband terahertz coherent detection via a silicon nitride-based deep sub-wavelength metallic slit. APL Photonics, 2018, 3, 110805.	3.0	11
23	Highly Sensitive Polarization Rotation Measurement through a High-Order Vector Beam Generated by a Metasurface. Advanced Materials Technologies, 2020, 5, 1901008.	3.0	10
24	Rotational Doppler Frequency Shift from Time-Evolving High-Order Pancharatnam-Berry Phase: A Metasurface Approach. Laser and Photonics Reviews, 2021, 15, 2000576.	4.4	10
25	Effective mitigation of photodarkening in Yb-doped lasers based on Al-silicate using UV/visible light. , 2014, , .		8
26	Homodyne Solid-State Biased Coherent Detection of Ultra-Broadband Terahertz Pulses with Static Electric Fields. Nanomaterials, 2021, 11, 283.	1.9	7
27	Narrow bandwidth, picosecond, 1064-nm pumped optical parametric generator for the mid-IR based on HgGa ₂ S ₄ . Optics Letters, 2014, 39, 4895.	1.7	6
28	Improving nanoscale terahertz field localization by means of sharply tapered resonant nanoantennas. Nanophotonics, 2020, 9, 683-690.	2.9	6
29	Characterization of tunable low power Yb-doped fiber CW oscillators. Optics and Laser Technology, 2012, 44, 1437-1441.	2.2	3
30	Impact of photodarkening on Yb lifetime in Al-silicate fibres and on the rate-equation system. , 2014, , .		1
31	Photodarkening in Yb-doped Al-silicate fibers: Investigation, modelling and mitigation. , 2014, , .		1
32	Conical nanoantenna arrays for terahertz light. , 2016, , .		1
33	Terahertz spectral imaging and thermal sensing for biomedical applications. , 2017, , .		1
34	Investigation of Nanoparticle-Assisted Laser Tissue Soldering by Terahertz Radiation. , 2019, , .		1
35	Photodarkening mitigation in Yb-doped fiber lasers by 405 nm irradiation. , 2013, , .		1
36	Silicon nitride-based deep sub-wavelength slit for ultra-broadband THz coherent detection. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
37	Narrow-bandwidth, picosecond, 1064-nm pumped optical parametric generator for the mid-IR based on HgGa ₂ S ₄ . , 2014, , .		0
38	On the optimization of tapered nanoantennas resonating in the terahertz range. , 2016, , .		0
39	Ultra-broadband terahertz time domain spectroscopy by Solid State Biased Coherent Detection. , 2017, , .		0
40	Affordable, ultra-broadband coherent detection of terahertz pulses via CMOS-compatible solid-state devices. , 2017, , .		0
41	Modeling Light-Matter Interaction in Terahertz Plasmonic Nanocavities. , 2018, , .		0
42	33-fold pulse compression down to 1.5 cycles in a 6-m-long hollow-core fiber. , 2018, , .		0
43	High-field terahertz pulses generated in an HMQ-TMS organic crystal pumped by an amplified ytterbium laser. , 2018, , .		0
44	Modifying the Optical Phonon Response of Nanocrystals inside Terahertz Plasmonic Nanocavities. , 2019, , .		0
45	Antenna Tapering Strategy for Near-Field Enhancement Optimization in Terahertz Gold Nanocavities. , 2019, , .		0
46	Molecular Gases for Low Energy Pulse Compression in Hollow Core Fibers. , 2019, , .		0
47	Ultrafast phenomena in hollow-core fibres. , 2020, , .		0
48	Guiding of Laser Pulses at the Theoretical Limit â€“ 97% Throughput Hollow-Core Fibers. , 2021, , .		0
49	3D-Printed Resonant Gold Nanocones for Out-of-Plane Terahertz-Field-Driven Electron Photoemission. , 2021, , .		0
50	Narrow-bandwidth, mid-infrared, seeded optical parametric generation in 90Â° phase-matched CdSiP ₂ crystal pumped by diffraction limited 500-ps pulses at 1064 nm. , 2012, , .		0
51	Lifetime variation induced by photodarkening effect in Yb-doped fibers. , 2013, , .		0
52	Narrow-bandwidth, ~100 ps, optical parametric generation in CdSiP ₂ pumped by Raman shifted pulses at 1198 nm. , 2013, , .		0
53	Photodarkening: Investigation, Measurement and Standard. , 2014, , .		0
54	Asymmetric Dual-Grating Micro-Slit Configuration for Broadband Solid State Coherent Detection of THz Pulses. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
55	Multi-dimensional Imaging in the Terahertz Regime for Theranostic Applications. , 2017, , .		0
56	Hydrofluorocarbon Gases for Pulse Compression in Hollow Core Fibers. , 2018, , .		0
57	High power hollow-core fiber compression of Yb lasers as ideal drivers for HHG. , 2018, , .		0
58	Low Energy Hollow Core Fiber Pulse Compression Using Molecular Gases. , 2019, , .		0
59	Guiding of Laser Pulses at the Theoretical Limit " 97% Throughput Hollow-Core Fibers. , 2020, , .		0
60	Polarization rotation measurements via a high-order vector beam generated by a metasurface. , 2020, , .		0
61	Homodyne Coherent Detection of THz Pulses via DC-biased Solid-State Devices. , 2020, , .		0
62	Field-driven electron photoemission via 3D-printed terahertz resonant vertical nanostructures. , 2021, , .		0
63	Enhanced Third-Harmonic Generation by a Mid-Infrared Phase-Change Metasurface. , 2021, , .		0
64	Ge ₂ Sb ₂ Se ₄ Te ₁ Metasurface for Enhancing Third-Harmonic Generation in the Mid-Infrared. , 2021, , .		0
65	Dynamic Terahertz Investigation of Nanoparticle-assisted Laser-tissue Interaction. , 2020, , .		0
66	Guiding of Laser Pulses at the Theoretical Limit " 97% Throughput Hollow-Core Fibers. , 2021, , .		0
67	Few-Cycle Visible Light Generation in a Hollow-Core Fiber. , 2021, , .		0
68	Terahertz multi-dimensional imaging for nanoparticle-assisted therapeutics. , 2022, , .		0