

# Vasileios Apostolopoulos

## List of Publications by Citations

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67

papers

840

citations

16

h-index

27

g-index

93

ext. papers

1,052

ext. citations

3.6

avg, IF

3.76

L-index

#	Paper	IF	Citations
67	A passively mode-locked external-cavity semiconductor laser emitting 60-fs pulses. <i>Nature Photonics</i> , <b>2009</b> , 3, 729-731	33.9	132
66	Femtosecond-irradiation-induced refractive-index changes and channel waveguiding in bulk Ti <sup>3+</sup> :Sapphire. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 1122-1124	3.4	88
65	Surface domain engineering in congruent lithium niobate single crystals: A route to submicron periodic poling. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4946-4948	3.4	61
64	THz emitters based on the photo-Dember effect. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 374002	3	56
63	3D-printed polymer antiresonant waveguides for short-reach terahertz applications. <i>Applied Optics</i> , <b>2018</b> , 57, 3953-3958	1.7	46
62	Investigation of the role of the lateral photo-Dember effect in the generation of terahertz radiation using a metallic mask on a semiconductor. <i>Optics Express</i> , <b>2013</b> , 21, 16263-72	3.3	25
61	175 GHz, 400-fs-pulse harmonically mode-locked surface emitting semiconductor laser. <i>Optics Express</i> , <b>2012</b> , 20, 7040-5	3.3	25
60	All-semiconductor room-temperature terahertz time domain spectrometer. <i>Optics Letters</i> , <b>2008</b> , 33, 2125-7	3	24
59	Fabrication of piezoelectric micro-cantilevers in domain-engineered LiNbO <sub>3</sub> single crystals. <i>Journal of Micromechanics and Microengineering</i> , <b>2002</b> , 12, 53-57	2	24
58	Buried channel waveguides in Yb-doped KY(WO <sub>4</sub> ) <sub>2</sub> crystals fabricated by femtosecond laser irradiation. <i>Applied Surface Science</i> , <b>2007</b> , 253, 8300-8303	6.7	23
57	Low-temperature liquid-phase epitaxy and optical waveguiding of rare-earth-ion-doped KY(WO <sub>4</sub> ) <sub>2</sub> thin layers. <i>Journal of Crystal Growth</i> , <b>2004</b> , 269, 377-384	1.6	23
56	Gain bandwidth characterization of surface-emitting quantum well laser gain structures for femtosecond operation. <i>Optics Express</i> , <b>2010</b> , 18, 21330-41	3.3	19
55	Optical Gating of Graphene on Photoconductive Fe:LiNbO <sub>3</sub> . <i>ACS Nano</i> , <b>2018</b> , 12, 5940-5945	16.7	19
54	Diffused Ti:sapphire channel-waveguide lasers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2004</b> , 21, 1452	1.7	18
53	Refractive indices and birefringence of hybrid liquid crystal - nanoparticles composite materials in the terahertz region. <i>AIP Advances</i> , <b>2015</b> , 5, 077143	1.5	16
52	Terahertz emission by diffusion of carriers and metal-mask dipole inhibition of radiation. <i>Optics Express</i> , <b>2012</b> , 20, 8898-906	3.3	16
51	Passively harmonically mode-locked vertical-external-cavity surface-emitting laser emitting 1.1 ps pulses at 147 GHz repetition rate. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 251101	3.4	15

50	Fluence and polarisation dependence of GaAs based Lateral Photo-Dember terahertz emitters. <i>Optics Express</i> , <b>2014</b> , 22, 3234-43	3.3	14
49	Gallium-diffused waveguides in sapphire. <i>Optics Letters</i> , <b>2001</b> , 26, 1586-8	3	13
48	Electrically charged dispersions of ferroelectric nanoparticles. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 0431113.4	3.4	12
47	Surface-emitting photonic crystal terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 171112	3.4	12
46	Comparison of fabrication methods of sub-100nm nano-optical structures and devices <b>2005</b> ,		12
45	Waveguide lasers in ytterbium-doped tantalum pentoxide on silicon. <i>Optics Letters</i> , <b>2015</b> , 40, 2549-52	3	11
44	Intrinsic and photo-induced properties of high refractive index azobenzene based thin films [Invited]. <i>Optical Materials Express</i> , <b>2018</b> , 8, 420	2.6	10
43	Frequency Manipulation of THz Bound-to-Continuum Quantum-Cascade Lasers. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 303-305	2.2	10
42	Multiple double-metal bias-free terahertz emitters. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 201108	3.4	9
41	Waveguide mode filters fabricated using laser-induced forward transfer. <i>Optics Express</i> , <b>2011</b> , 19, 9814-9.3	3.3	9
40	Fabrication and characterization of UV-written channel waveguides in Bi <sub>2</sub> O <sub>3</sub> -based glass. <i>Optical Materials</i> , <b>2004</b> , 27, 7-13	3.3	8
39	Singlemoded THz guidance in bendable TOPAS suspended-core fiber directly drawn from a 3D printer. <i>Scientific Reports</i> , <b>2020</b> , 10, 11045	4.9	7
38	Terahertz properties of liquid crystals doped with ferroelectric BaTiO <sub>3</sub> nanoparticles. <i>Liquid Crystals</i> , <b>2017</b> , 44, 1207-1215	2.3	6
37	Multiple lateral photo-Dember terahertz emitters illuminated by a cylindrical micro-lens array. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 252101	3.4	6
36	Supercontinuum generation in tantalum pentoxide waveguides for pump wavelengths in the 900 nm to 1500 nm spectral region. <i>Optics Express</i> , <b>2020</b> , 28, 32173-32184	3.3	6
35	Optically controlled bistable waveplates. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 267, 484-489	6	5
34	Spectroscopy of ytterbium-doped tantalum pentoxide rib waveguides on silicon. <i>Optical Materials Express</i> , <b>2014</b> , 4, 1505	2.6	5
33	Diffusion of gallium in sapphire. <i>Journal of the European Ceramic Society</i> , <b>2006</b> , 26, 2695-2698	6	5

32	Simulation of Terahertz Generation from Lateral Diffusion Currents in Semiconductor Devices. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2014</b> , 35, 1030-1044	2.2	4
31	High-precision THz-TDS via self-referenced transmission echo method. <i>Applied Optics</i> , <b>2020</b> , 59, 6744-6750	6	4
30	Hollow-core antiresonant terahertz fiber-based TOPAS extruded from a 3D printer using a metal 3D printed nozzle. <i>Photonics Research</i> , <b>2021</b> , 9, 1513	6	4
29	Mode-locked VECSEL SESAM with intracavity antenna for terahertz emission <b>2017</b> ,		3
28	Wetting-Layer-Pumped Continuous-Wave Surface-Emitting Quantum-Dot Laser. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 37-39	2.2	3
27	Numerical simulation of optical Stark effect saturable absorbers in mode-locked femtosecond VECSELs using a modified two-level atom model. <i>Optics Express</i> , <b>2011</b> , 19, 26783-95	3.3	3
26	Semiconductor disk laser in bi-frequency operation by laser ablation micromachining of a laser mirror. <i>Optics Express</i> , <b>2019</b> , 27, 22316-22326	3.3	3
25	Characterisation of THz emission from double-metal-patterned galliumArsenide multiple emitters. <i>Electronics Letters</i> , <b>2014</b> , 50, 1966-1968	1.1	2
24	A metamolecule antenna for coplanar waveguides. <i>Optics Express</i> , <b>2014</b> , 22, 30473-81	3.3	2
23	169 GHz repetition rate passively harmonically mode-locked VECSEL emitting 265 fs pulses <b>2011</b> ,		2
22	High peak power femtosecond pulse VECSELs for terahertz time domain spectroscopy <b>2011</b> ,		2
21	Fabrication and characterization of planar and channel waveguides in bismuth-based oxide glasses <b>2003</b> ,		2
20	Diffusion of Neodymium into Sputtered Films of Tantalum Pentoxide. <i>Journal of the American Ceramic Society</i> , <b>2002</b> , 85, 2581-2583	3.8	2
19	Optically Reconfigurable Graphene/Metal Metasurface on Fe:LiNbO3 for Adaptive THz Optics. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 9494-9501	5.6	2
18	Terahertz Focusing and Polarization Control in Large-Area Bias-Free Semiconductor Emitters. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2018</b> , 39, 223-235	2.2	2
17	Complex Refractive Index Determination Using Planar and Converging Beam Transfer Functions. <i>Springer Series in Optical Sciences</i> , <b>2012</b> , 81-94	0.5	1
16	Numerical modelling of optical Stark effect saturable absorbers in mode-locked femtosecond VECSELs <b>2011</b> ,		1
15	UV-written channel waveguides in Er <sup>3+</sup> -doped Bi <sub>2</sub> O <sub>3</sub> -based glass. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2004</b> , 1, 295-298		1

14	Tantalum pentoxide waveguides and microresonators for VECSEL based frequency combs <b>2018</b> ,		1
13	Zinc-indiffused MgO:PPLN waveguides for blue/UV generation via VECSEL pumping. <i>Applied Optics</i> , <b>2020</b> , 59, 4921-4926	1.7	1
12	Mechanically Tunable Terahertz Metamaterial Perfect Absorber. <i>Advanced Photonics Research</i> , <b>2021</b> , 2, 2100136	1.9	1
11	Study of dielectric coatings for broadband operation of surface-emitting semiconductor lasers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 752	1.7	1
10	Continuous repetition rate tuning from 960 MHz to 1.72 GHz of a sub-300 femtosecond mode-locked semiconductor disk laser. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 161106	3.4	1
9	Artificial neural networks for material parameter extraction in terahertz time-domain spectroscopy.. <i>Optics Express</i> , <b>2022</b> , 30, 15583-15595	3.3	1
8	Extruded TOPAS hollow-core anti-resonant fiber optimized for THz guidance at 0.9THz.. <i>Optics Express</i> , <b>2022</b> , 30, 13059-13069	3.3	1
7	Simulation of THz generation and propagation from photo-Dember emitters. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2018</b> , 35, 1552	1.7	0
6	THz-TDS parameter extraction: empirical correction terms for the analytical transfer function solution. <i>Applied Optics</i> , <b>2021</b> , 60, 4013-4020	1.7	0
5	Two-dimensional snapshot measurement of surface variation of anchoring in liquid crystal cells. <i>Liquid Crystals</i> , 1-11	2.3	0
4	High power 739 nm VECSELs for future Yb ion cooling. <i>Applied Optics</i> , <b>2021</b> , 60, 676-680	1.7	0
3	Temperature dependent polarity inversion in double-metal terahertz emitters. <i>Electronics Letters</i> , <b>2018</b> , 54, 991-993	1.1	
2	Spectroscopy of high index contrast Yb:Ta2O5 waveguides for lasing applications. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 619, 012031	0.3	
1	Anomalous resonance frequency shift in liquid crystal-loaded THz metamaterials. <i>Nanophotonics</i> , <b>2022</b> , 11, 2341-2348	6.3	