

Tsing-Hua Her

List of Publications by Year in descending order

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34
papers

1,077
citations

840776

11
h-index

552781

26
g-index

34
all docs

34
docs citations

34
times ranked

1104
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructuring of silicon with femtosecond laser pulses. Applied Physics Letters, 1998, 73, 1673-1675.	3.3	742
2	Optimization of Pulse Regeneration at 40 Gb/s Based on Spectral Filtering of Self-Phase Modulation in Fiber. IEEE Photonics Technology Letters, 2004, 16, 200-202.	2.5	65
3	Surface femtochemistry of CO/O ₂ /Pt(111): The importance of nonthermalized substrate electrons. Journal of Chemical Physics, 1998, 108, 8595-8598.	3.0	37
4	All-optical 2R regeneration of 40-Gb/s signal impaired by intrachannel four-wave mixing. IEEE Photonics Technology Letters, 2003, 15, 350-352.	2.5	27
5	Low-Threshold Plasmonic Lasers on a Single-Crystalline Epitaxial Silver Platform at Telecom Wavelength. ACS Photonics, 2017, 4, 1431-1439.	6.6	27
6	Reaction pathways in surface femtochemistry: routes to desorption and reaction in CO/O ₂ /Pt(111). Chemical Physics Letters, 1997, 274, 499-504.	2.6	22
7	Gain-guiding in transverse grating waveguides for large modal area laser amplifiers. Optics Express, 2008, 16, 7197.	3.4	19
8	Deposition of tungsten nanogratings induced by a single femtosecond laser beam. Optics Express, 2007, 15, 5937.	3.4	16
9	Self-assembly of tunable and highly uniform tungsten nanogratings induced by a femtosecond laser with nanojoule energy. Nanotechnology, 2007, 18, 485304.	2.6	15
10	Gain guiding in large-core Bragg fibers. Optics Express, 2009, 17, 22666.	3.4	14
11	Bright and Ultrafast Photoelectron Emission from Aligned Single-Wall Carbon Nanotubes through Multiphoton Exciton Resonance. Nano Letters, 2019, 19, 158-164.	9.1	13
12	A Boundary Integral Equation Method for Photonic Crystal Fibers. Journal of Scientific Computing, 2006, 28, 263-278.	2.3	10
13	Gain saturation in gain-guided slab waveguides with large-index antiguiding. Optics Letters, 2009, 34, 2411.	3.3	10
14	Ultrafast laser ablation, intrinsic threshold, and nanopatterning of monolayer molybdenum disulfide. Scientific Reports, 2022, 12, 6910.	3.3	9
15	Synthesis, Characterization and Lithography Performance of Novel Anionic Photoacid Generator (PAG) Bound Polymers. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 20, 793-797.	0.3	7
16	Gain Saturation and Output Characteristics of Index-Antiguided Planar Waveguide Amplifiers With Homogeneous Broadening. Journal of Lightwave Technology, 2011, 29, 1958-1964.	4.6	7
17	Thermal refraction focusing in planar index-antiguided lasers. Optics Letters, 2013, 38, 929.	3.3	7
18	Aerial wetting contact angle measurement using confocal microscopy. Measurement Science and Technology, 2016, 27, 125202.	2.6	6

#	ARTICLE	IF	CITATIONS
19	Power characteristics of homogeneously broadened index-antiguided waveguide lasers. Optics Letters, 2012, 37, 815.	3.3	5
20	Continuous-wave hybrid index-antiguided and thermal-guided planar waveguide laser. Applied Physics Letters, 2013, 103, .	3.3	4
21	Mechanism and sensitivity of Fano resonance tuning in high-contrast gratings. Optics Letters, 2021, 46, 721.	3.3	4
22	Transverse mode competition in index-antiguided waveguide lasers. Applied Physics Letters, 2015, 107, .	3.3	3
23	Power characteristics of planar index-antiguided waveguide lasers with transverse mode competition. AIP Advances, 2016, 6, 125206.	1.3	2
24	Uniform Thin Films on Optical Fibers by Plasma-Enhanced Chemical Vapor Deposition: Fabrication, Mie Scattering Characterization, and Application to Microresonators. Journal of Lightwave Technology, 2018, 36, 5580-5586.	4.6	2
25	Universal Output Characteristics of Single-Mode Operation in Low-Loss Large- V -Number Multimode Waveguide Lasers with Transverse Spatial Hole Burning. Physical Review Applied, 2020, 13, .	3.8	2
26	Ultrafast multi-shot ablation and defect generation in monolayer transition metal dichalcogenides. AIP Advances, 2022, 12, 015217.	1.3	2
27	Deposition of Tungsten induced by femtosecond lasers. , 2006, , .		0
28	Substrate study of tungsten nano-gratings deposited by a single femtosecond laser beam. , 2008, , .		0
29	Effect of Surface Waves on Gain-Guided Transverse-Grating Waveguides with Large Mode Area. , 2009, , .		0
30	Self-assembly of tunable and highly uniform tungsten nanogratings induced by a femtosecond laser with nanojoule energy. Nanotechnology, 2009, 20, 199802-199802.	2.6	0
31	Saturation characteristics of gain guiding in index-antiguided waveguides. , 2010, , .		0
32	Gain-guided leaky-waveguide laser amplifiers: analytical methods and recent progress on experiments. , 2011, , .		0
33	Fabrication and characterization of uniform conformal thin films of SiO_2 and SiN_x on optical fibers. , 2014, , .		0
34	Continuous-wave hybrid index-antiguided and thermal-guided planar waveguide laser with large mode area. , 2015, , .		0