Sy-Bor Wen

List of Publications by Year
in descending order

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34	661	759233 12	552781 26
papers	citations	h-index	g-index

34	34	34	680
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Simple Approach to Evaluate Near Field Thermal Radiation From Emitters With Layered Structures and Temperature Variations in One Direction. Journal of Heat Transfer, 2021, 143, .	2.1	3
2	Improving the performance of solar thermophotovoltaic (STPV) cells with spectral selected absorbers and small apertured radiation shields. International Journal of Heat and Mass Transfer, 2021, 184, 122266.	4.8	2
3	Enhanced tunneling distance of near field radiative energy with high-index dielectric resonators. Applied Physics Letters, 2021, 119, 234101.	3.3	1
4	Pulsed illumination phase-contrast microscopy. Optical Engineering, 2020, 59, 1.	1.0	0
5	Scanning digital oil immersion lithography providing high-speed large area patterning with diffraction limited sub-micron resolution. Journal of Micromechanics and Microengineering, 2020, 30, 125014.	2.6	4
6	Direct numerical simulation of laser induced breakdown and the associated micro-cavitation in a bio-tissue. International Journal of Heat and Mass Transfer, 2019, 131, 873-889.	4.8	1
7	Two-wavelength thermoreflectance in steady-state thermal imaging. Applied Physics Letters, 2019, 114, .	3.3	3
8	A new high accuracy meshfree method to directly simulate fluid dynamics and heat transfer of weakly compressible fluids. International Journal of Heat and Mass Transfer, 2018, 123, 25-39.	4.8	5
9	Scanning digital lithography providing high speed large area patterning with diffraction limited sub-micron resolution. Journal of Micromechanics and Microengineering, 2018, 28, 075011.	2.6	8
10	Direct numerical simulation of the initial stage of a thermally induced microcavitation in a water-rich biotissue triggered by a nanosecond pulsed laser. Journal of Biomedical Optics, 2017, 22, 056002.	2.6	4
11	Low-cost, high-precision micro-lensed optical fiber providing deep-micrometer to deep-nanometer-level light focusing. Optics Letters, 2016, 41, 1793.	3.3	12
12	Analysis of deep sub-micron resolution in microsphere based imaging. Applied Physics Letters, 2014, 105, .	3.3	52
13	Nanoscale high-intensity light focusing with pure dielectric nonspherical scatterer. Optics Letters, 2014, 39, 582.	3.3	12
14	Transient temperature response of near field scanning optical microscope probes under pulsed illumination. Journal of Applied Physics, 2014, 115, 234903.	2.5	2
15	A methodology for nanosecond (or better) time resolved thermoreflectance imaging with coherence control of laser pulses. Applied Physics Letters, 2013, 102, .	3.3	8
16	Non-intrusive temperature measurement of NSOM probes with thermoreflectance imaging. Journal Physics D: Applied Physics, 2012, 45, 185101.	2.8	8
17	Fabrication of micro-optical devices at the end of a multimode optical fiber with negative tone lift-off EBL. Journal of Micromechanics and Microengineering, 2012, 22, 125016.	2.6	11
18	Laser Induced Nano-Droplet Ejection for the Construction of Nano-Inkjets. , 2012, , .		0

#	Article	IF	Citations
19	Guiding and focusing of a nanosecond infrared laser within transient hollow plasma femtosecond filament channels. Journal Physics D: Applied Physics, 2012, 45, 355203.	2.8	9
20	Direct generation of core/shell nanoparticles from double-pulse laser ablation in a background gas. Journal Physics D: Applied Physics, 2011, 44, 305301.	2.8	13
21	Analysis of nanopatterning through near field effects with femtosecond and nanosecond lasers on semiconducting and metallic targets. Journal of Applied Physics, 2010, 107, 074305.	2.5	8
22	Optical and thermal energy transport from a NSOM probe to a pure silicon target under intense ns pulsed light. Journal Physics D: Applied Physics, 2010, 43, 285502.	2.8	1
23	The generation of nano-patterns on a pure silicon wafer in air and argon with sub-diffraction limit nanosecond laser pulses. Journal Physics D: Applied Physics, 2010, 43, 145301.	2.8	12
24	Combined wave based optical analysis and particle based thermal analysis of nanoscale ultrafast target heating of silicon utilizing a near-field scanning optical probe and a femtosecond laser. Journal Physics D: Applied Physics, 2009, 42, 075502.	2.8	4
25	Experimental and Theoretical Analysis of the Nanoscale Crater Generation With a Near Field Scanning Optical Tip. , 2008, , .		0
26	Background gas effects on the generation of nanopatterns on a pure silicon wafer with multiple femtosecond near field laser ablation. Applied Physics Letters, 2007, 91, .	3.3	14
27	Metal particles produced by laser ablation for ICPâ€“MS measurements. Talanta, 2007, 73, 567-576.	5.5	65
28	Experimental and theoretical studies of particle generation after laser ablation of copper with a background gas at atmospheric pressure. Journal of Applied Physics, 2007, 101, 123105.	2.5	45
29	Laser ablation induced vapor plume expansion into a background gas. II. Experimental analysis. Journal of Applied Physics, 2007, 101, 023115.	2.5	95
30	Expansion of the laser ablation vapor plume into a background gas. I. Analysis. Journal of Applied Physics, 2007, 101, 023114.	2.5	78
31	Time resolved laser-induced plasma dynamics. Applied Surface Science, 2007, 253, 6316-6321.	6.1	37
32	Comment on â€œthree-dimensional analysis of laser induced plasmas in single and double pulse configurationâ€• Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 870-872.	2.9	7
33	Time-resolved plasma properties for double pulsed laser-induced breakdown spectroscopy of silicon. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 960-967.	2.9	75
34	Energy deposition and shock wave propagation during pulsed laser ablation in fused silica cavities. Journal Physics D: Applied Physics, 2004, 37, 1132-1136.	2.8	62