

Sy-Bor Wen

List of Publications by Year in descending order

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34
papers

661
citations

759233

12
h-index

552781

26
g-index

34
all docs

34
docs citations

34
times ranked

680
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser ablation induced vapor plume expansion into a background gas. II. Experimental analysis. Journal of Applied Physics, 2007, 101, 023115.	2.5	95
2	Expansion of the laser ablation vapor plume into a background gas. I. Analysis. Journal of Applied Physics, 2007, 101, 023114.	2.5	78
3	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
4	Metal particles produced by laser ablation for ICP-MS measurements. Talanta, 2007, 73, 567-576.	5.5	65
5	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
6	Analysis of deep sub-micron resolution in microsphere based imaging. Applied Physics Letters, 2014, 105, .	3.3	52
7	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
8	Time resolved laser-induced plasma dynamics. Applied Surface Science, 2007, 253, 6316-6321.	6.1	37
9	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
10	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
11	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
12	Nanoscale high-intensity light focusing with pure dielectric nonspherical scatterer. Optics Letters, 2014, 39, 582.	3.3	12
13	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
14	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
15	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
16	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
17	Non-intrusive temperature measurement of NSOM probes with thermoreflectance imaging. Journal Physics D: Applied Physics, 2012, 45, 185101.	2.8	8
18	A methodology for nanosecond (or better) time resolved thermoreflectance imaging with coherence control of laser pulses. Applied Physics Letters, 2013, 102, .	3.3	8

#	ARTICLE	IF	CITATIONS
19	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
20	Comment on "Three-dimensional analysis of laser induced plasmas in single and double pulse configuration". Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 870-872.	2.9	7
21	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
22	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
23	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
24	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
25	Two-wavelength thermoreflectance in steady-state thermal imaging. Applied Physics Letters, 2019, 114, .	3.3	3
26	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
27	Transient temperature response of near field scanning optical microscope probes under pulsed illumination. Journal of Applied Physics, 2014, 115, 234903.	2.5	2
28	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
29	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
30	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
31	Enhanced tunneling distance of near field radiative energy with high-index dielectric resonators. Applied Physics Letters, 2021, 119, 234101.	3.3	1
32	Laser Induced Nano-Droplet Ejection for the Construction of Nano-Inkjets. , 2012, , .		0
33	Experimental and Theoretical Analysis of the Nanoscale Crater Generation With a Near Field Scanning Optical Tip. , 2008, , .		0
34	Pulsed illumination phase-contrast microscopy. Optical Engineering, 2020, 59, 1.	1.0	0