Ming-Tsang Lee

List of Publications by Year in descending order

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MING-TSANG LEE

#	Article	IF	CITATIONS
1	Silicon Nanowires for Solar Thermal Energy Harvesting: an Experimental Evaluation on the Trade-off Effects of the Spectral Optical Properties. Nanoscale Research Letters, 2016, 11, 1.	5.7	653
2	Next Generation Non-Vacuum, Maskless, Low Temperature Nanoparticle Ink Laser Digital Direct Metal Patterning for a Large Area Flexible Electronics. PLoS ONE, 2012, 7, e42315.	2.5	106
3	Subnanometer Porous Thin Films by the Co-assembly of Nanotube Subunits and Block Copolymers. ACS Nano, 2011, 5, 1376-1384.	14.6	104
4	A study on fluid flow and heat transfer in rectangular microchannels with various longitudinal vortex generators. International Journal of Heat and Mass Transfer, 2014, 69, 203-214.	4.8	89
5	A novel flat polymer heat pipe with thermal via for cooling electronic devices. Energy Conversion and Management, 2015, 100, 37-44.	9.2	83
6	A study of steam methanol reforming in a microreactor. Journal of Power Sources, 2007, 173, 458-466.	7.8	71
7	Transport phenomena in a steam-methanol reforming microreactor with internal heating. International Journal of Hydrogen Energy, 2009, 34, 314-322.	7.1	70
8	Laser Direct Synthesis and Patterning of Silver Nano/Microstructures on a Polymer Substrate. ACS Applied Materials & Interfaces, 2014, 6, 14576-14582.	8.0	67
9	3D micro-structures by piezoelectric inkjet printing of gold nanofluids. Journal of Micromechanics and Microengineering, 2012, 22, 055022.	2.6	66
10	Thermal spreading resistance characteristics of a high power light emitting diode module. Applied Thermal Engineering, 2014, 70, 361-368.	6.0	54
11	Transport in packed-bed and wall-coated steam-methanol reformers. Journal of Power Sources, 2007, 166, 194-201.	7.8	49
12	An experimental study on the heat dissipation of LED lighting module using metal/carbon foam. International Communications in Heat and Mass Transfer, 2013, 48, 73-79.	5.6	44
13	Recent Advances in Sustainable Wearable Energy Devices with Nanoscale Materials and Macroscale Structures. Advanced Functional Materials, 2022, 32, .	14.9	43
14	Rapid selective metal patterning on polydimethylsiloxane (PDMS) fabricated by capillarity-assisted laser direct write. Journal of Micromechanics and Microengineering, 2011, 21, 095018.	2.6	38
15	Exergetic analysis of fuel cell micropowerplants fed by methanol. International Journal of Heat and Mass Transfer, 2006, 49, 2397-2411.	4.8	36
16	Nanoscale Heaters: Single Nanowire Resistive Nanoâ€heater for Highly Localized Thermo hemical Reactions: Localized Hierarchical Heterojunction Nanowire Growth (Small 24/2014). Small, 2014, 10, 5014-5014.	10.0	34
17	Hydrogen production with a solar steam–methanol reformer and colloid nanocatalyst. International Journal of Hydrogen Energy, 2010, 35, 118-126.	7.1	28
18	Nanocatalyst fabrication and the production of hydrogen by using photon energy. International Journal of Hydrogen Energy, 2009, 34, 1835-1843.	7.1	26

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19	Transport phenomena and the effects of reactor geometry for epitaxial GaN growth in a vertical MOCVD reactor. Journal of Crystal Growth, 2015, 432, 54-63.	1.5	23
20	Exergetic analysis and optimization of a solar-powered reformed methanol fuel cell micro-powerplant. Journal of Power Sources, 2010, 195, 1676-1687.	7.8	22
21	Frequency Shift of a SH-SAW Biosensor with Glutaraldehyde and 3-Aminopropyltriethoxysilane Functionalized Films for Detection of Epidermal Growth Factor. Biosensors, 2020, 10, 92.	4.7	17
22	An experimental and analytical investigation of the photo-thermal-electro characteristics of a high power InGaN LED module. Applied Thermal Engineering, 2016, 98, 756-765.	6.0	15
23	Deposition of highly transparent and conductive Ga-doped zinc oxide films on tilted substrates by atmospheric pressure plasma jet. Journal of Alloys and Compounds, 2019, 802, 458-466.	5.5	15
24	Design of a solar-driven methanol steam reforming receiver/reactor with a thermal storage medium and its performance analysis. International Journal of Hydrogen Energy, 2020, 45, 33076-33087.	7.1	15
25	Large-area nanoimprinting on various substrates by reconfigurable maskless laser direct writing. Nanotechnology, 2012, 23, 344012.	2.6	14
26	Single Nanowire Resistive Nanoâ€heater for Highly Localized Thermoâ€Chemical Reactions: Localized Hierarchical Heterojunction Nanowire Growth. Small, 2014, 10, 5015-5022.	10.0	12
27	Hydrogen production with CuO/ZnO nanowire catalyst for a nanocatalytic solar thermal steam-methanol reformer. International Journal of Hydrogen Energy, 2016, 41, 16927-16931.	7.1	11
28	An Experimental and Numerical Study of the Thermal Issues of a High-speed Built-in Motor Spindle. Smart Science, 2016, 4, 160-166.	3.2	11
29	Heat Transfer Characteristics in High Power LED Packaging. Smart Science, 2014, 2, 1-6.	3.2	10
30	Facile Photoreduction Process for ZnO/Ag Hierarchical Nanostructured Photoelectrochemical Cell Integrated with Supercapacitor. ECS Journal of Solid State Science and Technology, 2015, 4, P424-P428.	1.8	10
31	A Novel Laser Direct Writing System Integrated with A&F XXY Alignment Platform for Rapid Fabrication of Flexible Electronics. Smart Science, 2015, 3, 87-91.	3.2	9
32	The Coupled Photothermal Reaction and Transport in a Laser Additive Metal Nanolayer Simultaneous Synthesis and Pattering for Flexible Electronics. Nanomaterials, 2016, 6, 12.	4.1	9
33	Low-Thermal-Budget Photonic Sintering of Hybrid Pastes Containing Submicron/Nano CuO/Cu2O Particles. Nanomaterials, 2021, 11, 1864.	4.1	8
34	A study of the transport phenomena in a wall-coated micro steam-methanol reformer. International Journal of Hydrogen Energy, 2014, 39, 2008-2017.	7.1	7
35	Experimental study and analysis of porous thin plate drying in a convection dryer. International Communications in Heat and Mass Transfer, 2015, 68, 200-207.	5.6	6
36	Development of lightweight energy-saving glass and its near-field electromagnetic analysis. Energy, 2020, 193, 116812.	8.8	6

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37	Direct Silver Micro Circuit Patterning on Transparent Polyethylene Terephthalate Film Using Laser-Induced Photothermochemical Synthesis. Micromachines, 2017, 8, 52.	2.9	5
38	An effective and efficient model for temperature and molding appearance analyses for selective laser melting process. Journal of Materials Processing Technology, 2021, 294, 117109.	6.3	4
39	Thermal Spreading Resistance Characteristics of a High Power Light Emitting Diode Module. , 2014, , .		3
40	Opto-thermo-fluidic transport phenomena involving thermocapillary flow during laser microfabrication. International Journal of Heat and Mass Transfer, 2020, 162, 120303.	4.8	3
41	Transport in a Methanol Steam Reformer as the Fuel Processor for Fuel Cell Systems. , 2004, , 433.		2
42	A Review on Investigation of Graphene Thermal Property: Recent Development in Measurement Techniques. Multiscale Science and Engineering, 2019, 1, 267-279.	1.7	2
43	Detection of Transferrin Receptor CD71 on a Shear Horizontal Surface Acoustic Wave Biosensor. IEEE Open Journal of Nanotechnology, 2021, 2, 1-7.	2.0	2
44	Ecoâ€Friendly and Particleâ€Free Copper Ionic Aqueous Precursor for In Situ Low Temperature Photothermal Synthesizing and Patterning of Highly Conductive Copper Microstructures on Flexible Substrate. Advanced Engineering Materials, 0, , 2101069.	3.5	2
45	Photonic Sintering of Composite Pastes with Copper Oxide Powders Using Different Light Sources. , 2021, , .		1
46	Synchronous scattering and diffraction from gold nanotextured surfaces with structure factors. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 210, 165-172.	2.3	0
47	Exergetic Analysis of a Solar-Heated Fuel Cell System Fed by Methanol. , 2010, , .		0
48	Microscopic mechanical simulation and experimental demonstration of deformed-induced failure for Li-ion battery package in electric vehicle. Mechanics of Advanced Materials and Structures, 2023, 30, 2341-2352.	2.6	0
49	Recent Advances in Sustainable Wearable Energy Devices with Nanoscale Materials and Macroscale Structures (Adv. Funct. Mater. 16/2022). Advanced Functional Materials, 2022, 32, .	14.9	0
50	Bending Fatigue of Laser-sintered Copper Films on Plasma Bombarded PI Substrate. , 2022, , .		0