

# Ming-Tsang Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,907  
citations

361045

20  
h-index

253896

43  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2875  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon Nanowires for Solar Thermal Energy Harvesting: an Experimental Evaluation on the Trade-off Effects of the Spectral Optical Properties. <i>Nanoscale Research Letters</i> , 2016, 11, 1.	3.1	653
2	Next Generation Non-Vacuum, Maskless, Low Temperature Nanoparticle Ink Laser Digital Direct Metal Patterning for a Large Area Flexible Electronics. <i>PLoS ONE</i> , 2012, 7, e42315.	1.1	106
3	Subnanometer Porous Thin Films by the Co-assembly of Nanotube Subunits and Block Copolymers. <i>ACS Nano</i> , 2011, 5, 1376-1384.	7.3	104
4	A study on fluid flow and heat transfer in rectangular microchannels with various longitudinal vortex generators. <i>International Journal of Heat and Mass Transfer</i> , 2014, 69, 203-214.	2.5	89
5	A novel flat polymer heat pipe with thermal via for cooling electronic devices. <i>Energy Conversion and Management</i> , 2015, 100, 37-44.	4.4	83
6	A study of steam methanol reforming in a microreactor. <i>Journal of Power Sources</i> , 2007, 173, 458-466.	4.0	71
7	Transport phenomena in a steam-methanol reforming microreactor with internal heating. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 314-322.	3.8	70
8	Laser Direct Synthesis and Patterning of Silver Nano/Microstructures on a Polymer Substrate. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 14576-14582.	4.0	67
9	3D micro-structures by piezoelectric inkjet printing of gold nanofluids. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 055022.	1.5	66
10	Thermal spreading resistance characteristics of a high power light emitting diode module. <i>Applied Thermal Engineering</i> , 2014, 70, 361-368.	3.0	54
11	Transport in packed-bed and wall-coated steam-methanol reformers. <i>Journal of Power Sources</i> , 2007, 166, 194-201.	4.0	49
12	An experimental study on the heat dissipation of LED lighting module using metal/carbon foam. <i>International Communications in Heat and Mass Transfer</i> , 2013, 48, 73-79.	2.9	44
13	Recent Advances in Sustainable Wearable Energy Devices with Nanoscale Materials and Macroscale Structures. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	43
14	Rapid selective metal patterning on polydimethylsiloxane (PDMS) fabricated by capillarity-assisted laser direct write. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 095018.	1.5	38
15	Exergetic analysis of fuel cell micropowerplants fed by methanol. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 2397-2411.	2.5	36
16	Nanoscale Heaters: Single Nanowire Resistive Nano-Heater for Highly Localized Thermo-Chemical Reactions: Localized Hierarchical Heterojunction Nanowire Growth (Small 24/2014). <i>Small</i> , 2014, 10, 5014-5014.	5.2	34
17	Hydrogen production with a solar steam-methanol reformer and colloid nanocatalyst. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 118-126.	3.8	28
18	Nanocatalyst fabrication and the production of hydrogen by using photon energy. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 1835-1843.	3.8	26

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19	Transport phenomena and the effects of reactor geometry for epitaxial GaN growth in a vertical MOCVD reactor. <i>Journal of Crystal Growth</i> , 2015, 432, 54-63.	0.7	23
20	Energetic analysis and optimization of a solar-powered reformed methanol fuel cell micro-powerplant. <i>Journal of Power Sources</i> , 2010, 195, 1676-1687.	4.0	22
21	Frequency Shift of a SH-SAW Biosensor with Glutaraldehyde and 3-Aminopropyltriethoxysilane Functionalized Films for Detection of Epidermal Growth Factor. <i>Biosensors</i> , 2020, 10, 92.	2.3	17
22	An experimental and analytical investigation of the photo-thermal-electro characteristics of a high power InGaN LED module. <i>Applied Thermal Engineering</i> , 2016, 98, 756-765.	3.0	15
23	Deposition of highly transparent and conductive Ga-doped zinc oxide films on tilted substrates by atmospheric pressure plasma jet. <i>Journal of Alloys and Compounds</i> , 2019, 802, 458-466.	2.8	15
24	Design of a solar-driven methanol steam reforming receiver/reactor with a thermal storage medium and its performance analysis. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 33076-33087.	3.8	15
25	Large-area nanoimprinting on various substrates by reconfigurable maskless laser direct writing. <i>Nanotechnology</i> , 2012, 23, 344012.	1.3	14
26	Single Nanowire Resistive Nano-heater for Highly Localized Thermo-chemical Reactions: Localized Hierarchical Heterojunction Nanowire Growth. <i>Small</i> , 2014, 10, 5015-5022.	5.2	12
27	Hydrogen production with CuO/ZnO nanowire catalyst for a nanocatalytic solar thermal steam-methanol reformer. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 16927-16931.	3.8	11
28	An Experimental and Numerical Study of the Thermal Issues of a High-speed Built-in Motor Spindle. <i>Smart Science</i> , 2016, 4, 160-166.	1.9	11
29	Heat Transfer Characteristics in High Power LED Packaging. <i>Smart Science</i> , 2014, 2, 1-6.	1.9	10
30	Facile Photoreduction Process for ZnO/Ag Hierarchical Nanostructured Photoelectrochemical Cell Integrated with Supercapacitor. <i>ECS Journal of Solid State Science and Technology</i> , 2015, 4, P424-P428.	0.9	10
31	A Novel Laser Direct Writing System Integrated with A&F XXY Alignment Platform for Rapid Fabrication of Flexible Electronics. <i>Smart Science</i> , 2015, 3, 87-91.	1.9	9
32	The Coupled Photothermal Reaction and Transport in a Laser Additive Metal Nanolayer Simultaneous Synthesis and Patterning for Flexible Electronics. <i>Nanomaterials</i> , 2016, 6, 12.	1.9	9
33	Low-Thermal-Budget Photonic Sintering of Hybrid Pastes Containing Submicron/Nano CuO/Cu <sub>2</sub> O Particles. <i>Nanomaterials</i> , 2021, 11, 1864.	1.9	8
34	A study of the transport phenomena in a wall-coated micro steam-methanol reformer. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 2008-2017.	3.8	7
35	Experimental study and analysis of porous thin plate drying in a convection dryer. <i>International Communications in Heat and Mass Transfer</i> , 2015, 68, 200-207.	2.9	6
36	Development of lightweight energy-saving glass and its near-field electromagnetic analysis. <i>Energy</i> , 2020, 193, 116812.	4.5	6

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37	Direct Silver Micro Circuit Patterning on Transparent Polyethylene Terephthalate Film Using Laser-Induced Photothermochemical Synthesis. <i>Micromachines</i> , 2017, 8, 52.	1.4	5
38	An effective and efficient model for temperature and molding appearance analyses for selective laser melting process. <i>Journal of Materials Processing Technology</i> , 2021, 294, 117109.	3.1	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. <i>International Journal of Heat and Mass Transfer</i> , 2020, 162, 120303.	2.5	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. <i>Multiscale Science and Engineering</i> , 2019, 1, 267-279.	0.9	2
43	Detection of Transferrin Receptor CD71 on a Shear Horizontal Surface Acoustic Wave Biosensor. <i>IEEE Open Journal of Nanotechnology</i> , 2021, 2, 1-7.	0.9	2
44	Eco-Friendly and Particle-Free Copper Ionic Aqueous Precursor for In Situ Low Temperature Photothermal Synthesizing and Patterning of Highly Conductive Copper Microstructures on Flexible Substrate. <i>Advanced Engineering Materials</i> , 0, , 2101069.	1.6	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. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 210, 165-172.	1.1	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. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 2341-2352.	1.5	0
49	Recent Advances in Sustainable Wearable Energy Devices with Nanoscale Materials and Macroscale Structures ( <i>Adv. Funct. Mater.</i> 16/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	0
50	Bending Fatigue of Laser-sintered Copper Films on Plasma Bombarded PI Substrate. , 2022, , .		0