Ming-Tsang Lee

List of Publications by Year
in descending order

50	1,907	361045 20	253896 43
papers	citations	h-index	g-index

53	53	53	2875
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	1.5	0
2	Recent Advances in Sustainable Wearable Energy Devices with Nanoscale Materials and Macroscale Structures. Advanced Functional Materials, 2022, 32, .	7.8	43
3	Recent Advances in Sustainable Wearable Energy Devices with Nanoscale Materials and Macroscale Structures (Adv. Funct. Mater. 16/2022). Advanced Functional Materials, 2022, 32, .	7.8	0
4	Bending Fatigue of Laser-sintered Copper Films on Plasma Bombarded PI Substrate. , 2022, , .		0
5	Detection of Transferrin Receptor CD71 on a Shear Horizontal Surface Acoustic Wave Biosensor. IEEE Open Journal of Nanotechnology, 2021, 2, 1-7.	0.9	2
6	Photonic Sintering of Composite Pastes with Copper Oxide Powders Using Different Light Sources. , 2021, , .		1
7	Low-Thermal-Budget Photonic Sintering of Hybrid Pastes Containing Submicron/Nano CuO/Cu2O Particles. Nanomaterials, 2021, 11, 1864.	1.9	8
8	An effective and efficient model for temperature and molding appearance analyses for selective laser melting process. Journal of Materials Processing Technology, 2021, 294, 117109.	3.1	4
9	Development of lightweight energy-saving glass and its near-field electromagnetic analysis. Energy, 2020, 193, 116812.	4.5	6
10	Opto-thermo-fluidic transport phenomena involving thermocapillary flow during laser microfabrication. International Journal of Heat and Mass Transfer, 2020, 162, 120303.	2.5	3
11	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.	3.8	15
12	Frequency Shift of a SH-SAW Biosensor with Glutaraldehyde and 3-Aminopropyltriethoxysilane Functionalized Films for Detection of Epidermal Growth Factor. Biosensors, 2020, 10, 92.	2.3	17
13	A Review on Investigation of Graphene Thermal Property: Recent Development in Measurement Techniques. Multiscale Science and Engineering, 2019, 1, 267-279.	0.9	2
14	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.	2.8	15
15	Synchronous scattering and diffraction from gold nanotextured surfaces with structure factors. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 210, 165-172.	1.1	0
16	Direct Silver Micro Circuit Patterning on Transparent Polyethylene Terephthalate Film Using Laser-Induced Photothermochemical Synthesis. Micromachines, 2017, 8, 52.	1.4	5
17	The Coupled Photothermal Reaction and Transport in a Laser Additive Metal Nanolayer Simultaneous Synthesis and Pattering for Flexible Electronics. Nanomaterials, 2016, 6, 12.	1.9	9
18	Hydrogen production with CuO/ZnO nanowire catalyst for a nanocatalytic solar thermal steam-methanol reformer. International Journal of Hydrogen Energy, 2016, 41, 16927-16931.	3.8	11

#	Article	IF	Citations
19	An Experimental and Numerical Study of the Thermal Issues of a High-speed Built-in Motor Spindle. Smart Science, 2016, 4, 160-166.	1.9	11
20	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.	3.1	653
21	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.	3.0	15
22	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.	1.9	9
23	A novel flat polymer heat pipe with thermal via for cooling electronic devices. Energy Conversion and Management, 2015, 100, 37-44.	4.4	83
24	Experimental study and analysis of porous thin plate drying in a convection dryer. International Communications in Heat and Mass Transfer, 2015, 68, 200-207.	2.9	6
25	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.	0.9	10
26	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.	0.7	23
27	A study of the transport phenomena in a wall-coated micro steam-methanol reformer. International Journal of Hydrogen Energy, 2014, 39, 2008-2017.	3.8	7
28	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.	2.5	89
29	Single Nanowire Resistive Nanoâ€heater for Highly Localized Thermoâ€Chemical Reactions: Localized Hierarchical Heterojunction Nanowire Growth. Small, 2014, 10, 5015-5022.	5.2	12
30	Laser Direct Synthesis and Patterning of Silver Nano/Microstructures on a Polymer Substrate. ACS Applied Materials & Interfaces, 2014, 6, 14576-14582.	4.0	67
31	Thermal spreading resistance characteristics of a high power light emitting diode module. Applied Thermal Engineering, 2014, 70, 361-368.	3.0	54
32	Thermal Spreading Resistance Characteristics of a High Power Light Emitting Diode Module. , 2014, , .		3
33	Heat Transfer Characteristics in High Power LED Packaging. Smart Science, 2014, 2, 1-6.	1.9	10
34	Nanoscale Heaters: Single Nanowire Resistive Nanoâ€heater for Highly Localized Thermoâ€Chemical Reactions: Localized Hierarchical Heterojunction Nanowire Growth (Small 24/2014). Small, 2014, 10, 5014-5014.	5.2	34
35	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.	2.9	44
36	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.	1.1	106

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37	3D micro-structures by piezoelectric inkjet printing of gold nanofluids. Journal of Micromechanics and Microengineering, 2012, 22, 055022.	1.5	66
38	Large-area nanoimprinting on various substrates by reconfigurable maskless laser direct writing. Nanotechnology, 2012, 23, 344012.	1.3	14
39	Rapid selective metal patterning on polydimethylsiloxane (PDMS) fabricated by capillarity-assisted laser direct write. Journal of Micromechanics and Microengineering, 2011, 21, 095018.	1.5	38
40	Subnanometer Porous Thin Films by the Co-assembly of Nanotube Subunits and Block Copolymers. ACS Nano, 2011, 5, 1376-1384.	7.3	104
41	Exergetic analysis and optimization of a solar-powered reformed methanol fuel cell micro-powerplant. Journal of Power Sources, 2010, 195, 1676-1687.	4.0	22
42	Hydrogen production with a solar steamâ€“methanol reformer and colloid nanocatalyst. International Journal of Hydrogen Energy, 2010, 35, 118-126.	3.8	28
43	Exergetic Analysis of a Solar-Heated Fuel Cell System Fed by Methanol. , 2010, , .		0
44	Transport phenomena in a steam-methanol reforming microreactor with internal heating. International Journal of Hydrogen Energy, 2009, 34, 314-322.	3.8	70
45	Nanocatalyst fabrication and the production of hydrogen by using photon energy. International Journal of Hydrogen Energy, 2009, 34, 1835-1843.	3.8	26
46	Transport in packed-bed and wall-coated steam-methanol reformers. Journal of Power Sources, 2007, 166, 194-201.	4.0	49
47	A study of steam methanol reforming in a microreactor. Journal of Power Sources, 2007, 173, 458-466.	4.0	71
48	Exergetic analysis of fuel cell micropowerplants fed by methanol. International Journal of Heat and Mass Transfer, 2006, 49, 2397-2411.	2.5	36
49	Transport in a Methanol Steam Reformer as the Fuel Processor for Fuel Cell Systems. , 2004, , 433.		2
50	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.	1.6	2