

Ying-Chih Liao

List of Publications by Year in descending order

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papers

2,318
citations

201674

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45
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96
all docs

96
docs citations

96
times ranked

3533
citing authors

#	ARTICLE	IF	CITATIONS
1	Photo curable resin for 3D printed conductive structures. Additive Manufacturing, 2022, 51, 102590.	3.0	9
2	Bacterial cellulose reinforced with skim/fresh natural rubber latex for improved mechanical, chemical and dielectric properties. Cellulose, 2022, 29, 1739-1758.	4.9	11
3	Enhancing drop mixing in powder bed by alternative particle arrangements with contradictory hydrophilicity. Journal of the Taiwan Institute of Chemical Engineers, 2022, 131, 104160.	5.3	1
4	Thermal and dielectric properties enhancement of photocurable acrylate polymers for digital light processing <sc>3D</sc> printed electronics. Journal of Applied Polymer Science, 2022, 139, .	2.6	4
5	Amphiphilic Thermoresponsive Poly(Hydroxyaminoethers) as Effective Emulsifiers for Preparation of Waterborne Epoxy Resins. Macromolecular Materials and Engineering, 2022, 307, .	3.6	3
6	Bio-inspired fractal textile device for rapid sweat collection and monitoring. Lab on A Chip, 2021, 21, 2524-2533.	6.0	16
7	A chemical milling process to produce water-based inkjet printing ink from waste tire carbon blacks. Waste Management, 2021, 122, 64-70.	7.4	13
8	Development of a Highly Sensitive Wearable Tactile Sensor on Fabric by Using Conductive Inks Based on Electrical Contact Resistance (ECR) Change Mechanism. Macromolecular Materials and Engineering, 2021, 306, 2100130.	3.6	0
9	Direct Printed Silver Nanowire Strain Sensor for Early Extravasation Detection. Nanomaterials, 2021, 11, 2583.	4.1	6
10	Microwave-Assisted Synthesis for Silver Nanoplates with a High Aspect Ratio. Langmuir, 2021, 37, 13689-13695.	3.5	9
11	Exploring the mechanical properties of nanometer-thick elastic films through micro-drop impinging on large-area suspended graphene. Nanoscale, 2021, 14, 42-48.	5.6	2
12	Recrystallized Perovskite Thin Film via Intense Pulse Light Sintering for Vertical Gradient Band Gap Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 14240-14248.	5.1	1
13	Flexible rewritable electrochromic device with handwriting feature. Solar Energy Materials and Solar Cells, 2020, 217, 110738.	6.2	3
14	Photoâ€Curable Ionâ€Enhanced Fluorinated Elastomers for Pressureâ€Sensitive Textiles. Advanced Intelligent Systems, 2020, 2, 1900180.	6.1	7
15	Fully Printed Flexible Chemiresistors with Tunable Selectivity Based on Gold Nanoparticles. Chemosensors, 2020, 8, 116.	3.6	5
16	Fully Printed Flexible Chemiresistors with Tunable Selectivity Based on Gold Nanoparticle Composites. Proceedings (mdpi), 2020, 56, .	0.2	0
17	Transparent Wearable Sensor for Early Extravasation Detection. Proceedings (mdpi), 2020, 56, 8.	0.2	1
18	Multifunctionalized Cellulose Nanofiber for Water-Repellent and Wash-Sustainable Coatings on Fabrics. Langmuir, 2020, 36, 8144-8151.	3.5	12

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19	Stretchable Polydimethylsiloxane Composites with Emulsified Ionic Materials and Thermochromic Applications. ACS Omega, 2020, 5, 9458-9464.	3.5	4
20	Photo-Curable Ion-Enhanced Fluorinated Elastomers for Pressure-Sensitive Textiles. Advanced Intelligent Systems, 2020, 2, 2070041.	6.1	1
21	Porous CNT/rubber composite for resistive pressure sensor. Journal of the Taiwan Institute of Chemical Engineers, 2019, 102, 387-393.	5.3	23
22	Sintering Copper Nanoparticles with Photonic Additive for Printed Conductive Patterns by Intense Pulsed Light. Nanomaterials, 2019, 9, 1071.	4.1	15
23	Photocurable Stretchable Conductors with Low Dynamic Resistance Variation. ACS Applied Electronic Materials, 2019, 1, 718-726.	4.3	3
24	Facile Preparation of Cu/Ag Core/Shell Electrospun Nanofibers as Highly Stable and Flexible Transparent Conductive Electrodes for Optoelectronic Devices. ACS Applied Materials & Interfaces, 2019, 11, 10118-10127.	8.0	50
25	Facile and Green Synthesis of Graphene-Based Conductive Adhesives via Liquid Exfoliation Process. Nanomaterials, 2019, 9, 38.	4.1	5
26	Highly Responsive PEG/Gold Nanoparticle Thin-Film Humidity Sensor via Inkjet Printing Technology. Langmuir, 2019, 35, 3256-3264.	3.5	53
27	Impedimetric analysis on the mass transfer properties of intact and competent E. coli cells. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 9-16.	2.6	6
28	Encapsulated silver nanoparticles in water/oil emulsion for conductive inks. Journal of the Taiwan Institute of Chemical Engineers, 2018, 92, 8-14.	5.3	23
29	Fabrication of Strain Gauges via Contact Printing: A Simple Route to Healthcare Sensors Based on Cross-Linked Gold Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 37374-37385.	8.0	42
30	Healable and Foldable Carbon Nanotube/Wax Conductive Composite. ACS Applied Materials & Interfaces, 2018, 10, 24217-24223.	8.0	7
31	Printed Micro-Sensors for Simultaneous Temperature and Humidity Detection. IEEE Sensors Journal, 2018, 18, 6788-6793.	4.7	25
32	Welding Silver Nanowire Junctions for Transparent Conducting Films by a Rapid Electroplating Method. Journal of Nanoscience and Nanotechnology, 2018, 18, 251-255.	0.9	6
33	360° omnidirectional, printable and transparent photodetectors for flexible optoelectronics. Npj Flexible Electronics, 2018, 2, .	10.7	40
34	Stabilization of the thermal decomposition process of self-reducible copper ion ink for direct printed conductive patterns. RSC Advances, 2017, 7, 25095-25100.	3.6	25
35	Effect of decomposition and organic residues on resistivity of copper films fabricated via low-temperature sintering of complex particle mixed dispersions. Scientific Reports, 2017, 7, 45150.	3.3	28
36	Stability Analysis of Printed Liquid Elbows. Langmuir, 2017, 33, 645-651.	3.5	1

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37	Use of decomposable polymer-coated submicron Cu particles with effective additive for production of highly conductive Cu films at low sintering temperature. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1033-1041.	5.5	27
38	Highly Deformable Origami Paper Photodetector Arrays. <i>ACS Nano</i> , 2017, 11, 10230-10235.	14.6	94
39	Printed Combinatorial Sensors for Simultaneous Detection of Ascorbic Acid, Uric Acid, Dopamine, and Nitrite. <i>ACS Omega</i> , 2017, 2, 4245-4252.	3.5	67
40	Selective metallic coating of 3D-printed microstructures on flexible substrates. <i>RSC Advances</i> , 2017, 7, 51663-51669.	3.6	13
41	Accelerated Sedimentation Velocity Assessment for Nanowires Stabilized in a Non-Newtonian Fluid. <i>Langmuir</i> , 2016, 32, 13620-13626.	3.5	29
42	Integrated humidity and temperature sensing circuit fabricated by inkjet printing technology. , 2016, , .		6
43	Inkjet-Printed Porous Silver Thin Film as a Cathode for a Low-Temperature Solid Oxide Fuel Cell. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10343-10349.	8.0	33
44	Adhesive Stretchable Printed Conductive Thin Film Patterns on PDMS Surface with an Atmospheric Plasma Treatment. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11868-11874.	8.0	89
45	Water processable Prussian blue“polyaniline;polystyrene sulfonate nanocomposite (PB“PANI:PSS) for multi-color electrochromic applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10293-10300.	5.5	43
46	Intermittent pressurized operation of steam explosion pretreatment system. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 67, 285-291.	5.3	3
47	A Fabrication Method for Highly Stretchable Conductors with Silver Nanowires. <i>Journal of Visualized Experiments</i> , 2016, , e53623.	0.3	0
48	Inkjet-printed porphyrinic metal“organic framework thin films for electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11094-11102.	10.3	73
49	Metal“Organic Framework Colloids: Disassembly and Deaggregation. <i>Langmuir</i> , 2016, 32, 6123-6129.	3.5	17
50	Understanding ligand“nanoparticle interactions for silica, ceria, and titania nanopowders. <i>Advanced Powder Technology</i> , 2015, 26, 1676-1686.	4.1	15
51	Inkjet Printed Conductive Tracks for Printed Electronics. <i>ECS Journal of Solid State Science and Technology</i> , 2015, 4, P3026-P3033.	1.8	95
52	Printed Multicolor High-Contrast Electrochromic Devices. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25069-25076.	8.0	79
53	Direct printed silver nanowire thin film patterns for flexible transparent heaters with temperature gradients. <i>RSC Advances</i> , 2015, 5, 98412-98418.	3.6	54
54	Inkjet-printed transparent nanowire thin film features for UV photodetectors. <i>RSC Advances</i> , 2015, 5, 70707-70712.	3.6	34

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55	Fabrication of Copper Thin Film Patterns with Highly Adhesive Silver-Decorated Polydopamine Ink. <i>Science of Advanced Materials</i> , 2015, 7, 227-232.	0.7	4
56	Breakdown of the Bretherton law due to wall slippage. <i>Journal of Fluid Mechanics</i> , 2014, 741, 200-227.	3.4	9
57	An electrochromic device composed of metallo-supramolecular polyelectrolyte containing Cu(I) and polyaniline-carbon nanotube. <i>Solar Energy Materials and Solar Cells</i> , 2014, 126, 219-226.	6.2	17
58	Highly stretchable and conductive silver nanowire thin films formed by soldering nanomesh junctions. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19856-19860.	2.8	47
59	Nickel oxide coated carbon nanoparticles as temperature sensing materials. <i>Materials Chemistry and Physics</i> , 2014, 148, 305-310.	4.0	8
60	Paper memory by all printing technology. , 2014, , .		2
61	All-Printed Paper Memory. <i>ACS Nano</i> , 2014, 8, 7613-7619.	14.6	137
62	Origami paper-based fluidic batteries for portable electrophoretic devices. <i>Lab on A Chip</i> , 2014, 14, 2124-2130.	6.0	34
63	Speeding up thermocapillary migration of a confined bubble by wall slip. <i>Journal of Fluid Mechanics</i> , 2014, 746, 31-52.	3.4	10
64	Hemodynamic Behavior of Coronary Stents in Straight and Curved Arteries. <i>Current Nanoscience</i> , 2014, 10, 205-211.	1.2	9
65	Preserving Precision of Inkjet-Printed Features with Solvents of Different Volatilities. <i>Langmuir</i> , 2013, 29, 11330-11336.	3.5	13
66	Drastic Changes in Interfacial Hydrodynamics due to Wall Slippage: Slip-Intensified Film Thinning, Drop Spreading, and Capillary Instability. <i>Physical Review Letters</i> , 2013, 111, 136001.	7.8	22
67	Paper-Based Flexible Taxel Device Using Electrical Contact Resistance Variation for Elasticity Measurement on Biological Objects. <i>IEEE Sensors Journal</i> , 2013, 13, 4038-4044.	4.7	11
68	Conductive lithium nickel oxide thin film patterns via inkjet printing technology. <i>Thin Solid Films</i> , 2013, 544, 348-351.	1.8	7
69	Flexible Miniaturized Nickel Oxide Thermistor Arrays via Inkjet Printing Technology. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12954-12959.	8.0	90
70	Self-Assembled Mesoporous Silica Nanoparticles in Controlled Patterns Produced by Soft-Lithography and Ink-Jet Printing. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 2804-2808.	0.9	3
71	Contact Angle Hysteresis on Textured Surfaces with Nanowire Clusters. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 2729-2734.	0.9	2
72	Highly sensitive microelectrode for glucose sensing via inkjet printing technology. , 2012, , .		1

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73	Inkjet Printed Prussian Blue Films for Hydrogen Peroxide Detection. <i>Analytical Sciences</i> , 2012, 28, 135.	1.6	15
74	A Foldable Microplasma-Generation Device on a Paper Substrate. <i>Journal of Microelectromechanical Systems</i> , 2012, 21, 1013-1015.	2.5	12
75	Low temperature synthesis of conductive silver tracks with polymer addition. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2012, 43, 965-970.	5.3	15
76	Rigidity Guided Cell Attachment on Inkjet-Printed Patterns. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3335-3339.	8.0	12
77	Hemodynamic Simulation of Intra-stent Blood Flow. <i>Procedia Engineering</i> , 2012, 36, 128-136.	1.2	10
78	Silver Conductive Features on Flexible Substrates from a Thermally Accelerated Chain Reaction at Low Sintering Temperatures. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 7064-7068.	8.0	63
79	Direct Writing Patterns for Electroless Plated Copper Thin Film on Plastic Substrates. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5109-5113.	8.0	117
80	Cardiovascular stent design and wall shear stress distribution in coronary stented arteries. <i>Micro and Nano Letters</i> , 2012, 7, 430.	1.3	17
81	Formation of conductive silver films via inkjet reaction system. <i>Journal of Materials Chemistry</i> , 2011, 21, 18799.	6.7	52
82	Two degree-of-freedom micromirror actuation using thermocapillary effect in liquid droplets. <i>Sensors and Actuators A: Physical</i> , 2011, 168, 162-167.	4.1	6
83	Development of Computational Models for Evaluation of Mechanical and Hemodynamic Behavior of an Intravascular Stent. , 2011, , .		1
84	Growth of coatings on nanoparticles by photoinduced chemical vapor deposition. <i>Journal of Nanoparticle Research</i> , 2008, 10, 173-178.	1.9	27
85	Can Surfactant Be Present at Pinch-Off of a Liquid Filament?. <i>Physical Review Letters</i> , 2007, 98, 054503.	7.8	26
86	Surface Chemistry of Aerosolized Nanoparticles:Thermal Oxidation of Silicon. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6190-6197.	2.6	21
87	Self-Assembly of Organic Monolayers on Aerosolized Silicon Nanoparticles. <i>Journal of the American Chemical Society</i> , 2006, 128, 9061-9065.	13.7	54
88	Effects of dynamic surface tension and fluid flow on the oscillations of a supported bubble. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 282-283, 183-202.	4.7	18
89	Deformation and breakup of a stretching liquid bridge covered with an insoluble surfactant monolayer. <i>Physics of Fluids</i> , 2006, 18, 022101.	4.0	71
90	Hydrodynamic effects on the oscillations of supported bubbles: implications for accurate measurements of surface properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 250, 367-384.	4.7	13

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91	Dynamic Adsorption and Surface Tension of Aqueous Dilauroylphosphatidylcholine Dispersions under Physiological Conditions. <i>Langmuir</i> , 2004, 20, 4004-4010.	3.5	13
92	Effects of Soluble Surfactants on the Deformation and Breakup of Stretching Liquid Bridges. <i>Langmuir</i> , 2004, 20, 9926-9930.	3.5	34
93	Micellar dissolution and diffusion effects on adsorption dynamics of surfactants. <i>AIChE Journal</i> , 2003, 49, 3229-3240.	3.6	17
94	Computation of dynamic adsorption with adaptive integral, finite difference, and finite element methods. <i>Journal of Colloid and Interface Science</i> , 2003, 258, 310-321.	9.4	11
95	Comparison of DLPC and DPPC in Controlling the Dynamic Adsorption and Surface Tension of Their Aqueous Dispersions. <i>Langmuir</i> , 2002, 18, 8888-8896.	3.5	36