

Ying-Chih Liao

List of Publications by Year in descending order

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95
papers

2,318
citations

201674

27
h-index

233421

45
g-index

96
all docs

96
docs citations

96
times ranked

3533
citing authors

#	ARTICLE	IF	CITATIONS
1	All-Printed Paper Memory. ACS Nano, 2014, 8, 7613-7619.	14.6	137
2	Direct Writing Patterns for Electroless Plated Copper Thin Film on Plastic Substrates. ACS Applied Materials & Interfaces, 2012, 4, 5109-5113.	8.0	117
3	Inkjet Printed Conductive Tracks for Printed Electronics. ECS Journal of Solid State Science and Technology, 2015, 4, P3026-P3033.	1.8	95
4	Highly Deformable Origami Paper Photodetector Arrays. ACS Nano, 2017, 11, 10230-10235.	14.6	94
5	Flexible Miniaturized Nickel Oxide Thermistor Arrays via Inkjet Printing Technology. ACS Applied Materials & Interfaces, 2013, 5, 12954-12959.	8.0	90
6	Adhesive Stretchable Printed Conductive Thin Film Patterns on PDMS Surface with an Atmospheric Plasma Treatment. ACS Applied Materials & Interfaces, 2016, 8, 11868-11874.	8.0	89
7	Printed Multicolor High-Contrast Electrochromic Devices. ACS Applied Materials & Interfaces, 2015, 7, 25069-25076.	8.0	79
8	Inkjet-printed porphyrinic metal-organic framework thin films for electrocatalysis. Journal of Materials Chemistry A, 2016, 4, 11094-11102.	10.3	73
9	Deformation and breakup of a stretching liquid bridge covered with an insoluble surfactant monolayer. Physics of Fluids, 2006, 18, 022101.	4.0	71
10	Printed Combinatorial Sensors for Simultaneous Detection of Ascorbic Acid, Uric Acid, Dopamine, and Nitrite. ACS Omega, 2017, 2, 4245-4252.	3.5	67
11	Silver Conductive Features on Flexible Substrates from a Thermally Accelerated Chain Reaction at Low Sintering Temperatures. ACS Applied Materials & Interfaces, 2012, 4, 7064-7068.	8.0	63
12	Self-Assembly of Organic Monolayers on Aerosolized Silicon Nanoparticles. Journal of the American Chemical Society, 2006, 128, 9061-9065.	13.7	54
13	Direct printed silver nanowire thin film patterns for flexible transparent heaters with temperature gradients. RSC Advances, 2015, 5, 98412-98418.	3.6	54
14	Highly Responsive PEG/Gold Nanoparticle Thin-Film Humidity Sensor via Inkjet Printing Technology. Langmuir, 2019, 35, 3256-3264.	3.5	53
15	Formation of conductive silver films via inkjet reaction system. Journal of Materials Chemistry, 2011, 21, 18799.	6.7	52
16	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
17	Highly stretchable and conductive silver nanowire thin films formed by soldering nanomesh junctions. Physical Chemistry Chemical Physics, 2014, 16, 19856-19860.	2.8	47
18	Water processable Prussian blue-polyaniline:polystyrene sulfonate nanocomposite (PB-PANI:PSS) for multi-color electrochromic applications. Journal of Materials Chemistry C, 2016, 4, 10293-10300.	5.5	43

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19	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
20	360° omnidirectional, printable and transparent photodetectors for flexible optoelectronics. Npj Flexible Electronics, 2018, 2, .	10.7	40
21	Comparison of DLPC and DPPC in Controlling the Dynamic Adsorption and Surface Tension of Their Aqueous Dispersions. Langmuir, 2002, 18, 8888-8896.	3.5	36
22	Effects of Soluble Surfactants on the Deformation and Breakup of Stretching Liquid Bridges. Langmuir, 2004, 20, 9926-9930.	3.5	34
23	Origami paper-based fluidic batteries for portable electrophoretic devices. Lab on A Chip, 2014, 14, 2124-2130.	6.0	34
24	Inkjet-printed transparent nanowire thin film features for UV photodetectors. RSC Advances, 2015, 5, 70707-70712.	3.6	34
25	Inkjet-Printed Porous Silver Thin Film as a Cathode for a Low-Temperature Solid Oxide Fuel Cell. ACS Applied Materials & Interfaces, 2016, 8, 10343-10349.	8.0	33
26	Accelerated Sedimentation Velocity Assessment for Nanowires Stabilized in a Non-Newtonian Fluid. Langmuir, 2016, 32, 13620-13626.	3.5	29
27	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
28	Growth of coatings on nanoparticles by photoinduced chemical vapor deposition. Journal of Nanoparticle Research, 2008, 10, 173-178.	1.9	27
29	Use of decomposable polymer-coated submicron Cu particles with effective additive for production of highly conductive Cu films at low sintering temperature. Journal of Materials Chemistry C, 2017, 5, 1033-1041.	5.5	27
30	Can Surfactant Be Present at Pinch-Off of a Liquid Filament?. Physical Review Letters, 2007, 98, 054503.	7.8	26
31	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
32	Printed Micro-Sensors for Simultaneous Temperature and Humidity Detection. IEEE Sensors Journal, 2018, 18, 6788-6793.	4.7	25
33	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
34	Porous CNT/rubber composite for resistive pressure sensor. Journal of the Taiwan Institute of Chemical Engineers, 2019, 102, 387-393.	5.3	23
35	Drastic Changes in Interfacial Hydrodynamics due to Wall Slippage: Slip-Intensified Film Thinning, Drop Spreading, and Capillary Instability. Physical Review Letters, 2013, 111, 136001.	7.8	22
36	Surface Chemistry of Aerosolized Nanoparticles: Thermal Oxidation of Silicon. Journal of Physical Chemistry B, 2006, 110, 6190-6197.	2.6	21

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37	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
38	Micellar dissolution and diffusion effects on adsorption dynamics of surfactants. <i>AIChE Journal</i> , 2003, 49, 3229-3240.	3.6	17
39	Cardiovascular stent design and wall shear stress distribution in coronary stented arteries. <i>Micro and Nano Letters</i> , 2012, 7, 430.	1.3	17
40	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
41	Metal-Organic Framework Colloids: Disassembly and Deaggregation. <i>Langmuir</i> , 2016, 32, 6123-6129.	3.5	17
42	Bio-inspired fractal textile device for rapid sweat collection and monitoring. <i>Lab on A Chip</i> , 2021, 21, 2524-2533.	6.0	16
43	Inkjet Printed Prussian Blue Films for Hydrogen Peroxide Detection. <i>Analytical Sciences</i> , 2012, 28, 135.	1.6	15
44	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
45	Understanding ligand-nanoparticle interactions for silica, ceria, and titania nanopowders. <i>Advanced Powder Technology</i> , 2015, 26, 1676-1686.	4.1	15
46	Sintering Copper Nanoparticles with Photonic Additive for Printed Conductive Patterns by Intense Pulsed Light. <i>Nanomaterials</i> , 2019, 9, 1071.	4.1	15
47	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
48	Dynamic Adsorption and Surface Tension of Aqueous Dilauroylphosphatidylcholine Dispersions under Physiological Conditions. <i>Langmuir</i> , 2004, 20, 4004-4010.	3.5	13
49	Preserving Precision of Inkjet-Printed Features with Solvents of Different Volatilities. <i>Langmuir</i> , 2013, 29, 11330-11336.	3.5	13
50	Selective metallic coating of 3D-printed microstructures on flexible substrates. <i>RSC Advances</i> , 2017, 7, 51663-51669.	3.6	13
51	A chemical milling process to produce water-based inkjet printing ink from waste tire carbon blacks. <i>Waste Management</i> , 2021, 122, 64-70.	7.4	13
52	A Foldable Microplasma-Generation Device on a Paper Substrate. <i>Journal of Microelectromechanical Systems</i> , 2012, 21, 1013-1015.	2.5	12
53	Rigidity Guided Cell Attachment on Inkjet-Printed Patterns. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3335-3339.	8.0	12
54	Multifunctionalized Cellulose Nanofiber for Water-Repellent and Wash-Sustainable Coatings on Fabrics. <i>Langmuir</i> , 2020, 36, 8144-8151.	3.5	12

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55	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
56	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
57	Bacterial cellulose reinforced with skim/fresh natural rubber latex for improved mechanical, chemical and dielectric properties. <i>Cellulose</i> , 2022, 29, 1739-1758.	4.9	11
58	Hemodynamic Simulation of Intra-stent Blood Flow. <i>Procedia Engineering</i> , 2012, 36, 128-136.	1.2	10
59	Speeding up thermocapillary migration of a confined bubble by wall slip. <i>Journal of Fluid Mechanics</i> , 2014, 746, 31-52.	3.4	10
60	Breakdown of the Bretherton law due to wall slippage. <i>Journal of Fluid Mechanics</i> , 2014, 741, 200-227.	3.4	9
61	Hemodynamic Behavior of Coronary Stents in Straight and Curved Arteries. <i>Current Nanoscience</i> , 2014, 10, 205-211.	1.2	9
62	Microwave-Assisted Synthesis for Silver Nanoplates with a High Aspect Ratio. <i>Langmuir</i> , 2021, 37, 13689-13695.	3.5	9
63	Photo curable resin for 3D printed conductive structures. <i>Additive Manufacturing</i> , 2022, 51, 102590.	3.0	9
64	Nickel oxide coated carbon nanoparticles as temperature sensing materials. <i>Materials Chemistry and Physics</i> , 2014, 148, 305-310.	4.0	8
65	Conductive lithium nickel oxide thin film patterns via inkjet printing technology. <i>Thin Solid Films</i> , 2013, 544, 348-351.	1.8	7
66	Healable and Foldable Carbon Nanotube/Wax Conductive Composite. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24217-24223.	8.0	7
67	Photo-Curable Ion-Enhanced Fluorinated Elastomers for Pressure-Sensitive Textiles. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900180.	6.1	7
68	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
69	Integrated humidity and temperature sensing circuit fabricated by inkjet printing technology. , 2016, , .		6
70	Welding Silver Nanowire Junctions for Transparent Conducting Films by a Rapid Electroplating Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 251-255.	0.9	6
71	Impedimetric analysis on the mass transfer properties of intact and competent E. coli cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 9-16.	2.6	6
72	Direct Printed Silver Nanowire Strain Sensor for Early Extravasation Detection. <i>Nanomaterials</i> , 2021, 11, 2583.	4.1	6

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73	Facile and Green Synthesis of Graphene-Based Conductive Adhesives via Liquid Exfoliation Process. <i>Nanomaterials</i> , 2019, 9, 38.	4.1	5
74	Fully Printed Flexible Chemiresistors with Tunable Selectivity Based on Gold Nanoparticles. <i>Chemosensors</i> , 2020, 8, 116.	3.6	5
75	Stretchable Polydimethylsiloxane Composites with Emulsified Ionic Materials and Thermochromic Applications. <i>ACS Omega</i> , 2020, 5, 9458-9464.	3.5	4
76	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
77	Thermal and dielectric properties enhancement of photocurable acrylate polymers for digital light processing <sc>3D</sc> printed electronics. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	4
78	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
79	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
80	Photocurable Stretchable Conductors with Low Dynamic Resistance Variation. <i>ACS Applied Electronic Materials</i> , 2019, 1, 718-726.	4.3	3
81	Flexible rewritable electrochromic device with handwriting feature. <i>Solar Energy Materials and Solar Cells</i> , 2020, 217, 110738.	6.2	3
82	Amphiphilic Thermoresponsive Poly(Hydroxyaminoethers) as Effective Emulsifiers for Preparation of Waterborne Epoxy Resins. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	3.6	3
83	Contact Angle Hysteresis on Textured Surfaces with Nanowire Clusters. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 2729-2734.	0.9	2
84	Paper memory by all printing technology. , 2014, , .		2
85	Exploring the mechanical properties of nanometer-thick elastic films through micro-drop impinging on large-area suspended graphene. <i>Nanoscale</i> , 2021, 14, 42-48.	5.6	2
86	Highly sensitive microelectrode for glucose sensing via inkjet printing technology. , 2012, , .		1
87	Stability Analysis of Printed Liquid Elbows. <i>Langmuir</i> , 2017, 33, 645-651.	3.5	1
88	Transparent Wearable Sensor for Early Extravasation Detection. <i>Proceedings (mdpi)</i> , 2020, 56, 8.	0.2	1
89	Development of Computational Models for Evaluation of Mechanical and Hemodynamic Behavior of an Intravascular Stent. , 2011, , .		1
90	Photoâ€Curable Ionâ€Enhanced Fluorinated Elastomers for Pressureâ€Sensitive Textiles. <i>Advanced Intelligent Systems</i> , 2020, 2, 2070041.	6.1	1

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91	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
92	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
93	A Fabrication Method for Highly Stretchable Conductors with Silver Nanowires. Journal of Visualized Experiments, 2016, , e53623.	0.3	0
94	Fully Printed Flexible Chemiresistors with Tunable Selectivity Based on Gold Nanoparticle Composites. Proceedings (mdpi), 2020, 56, .	0.2	0
95	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