

Cheng-Yao Lo

List of Publications by Year in descending order

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50
papers

566
citations

567281

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677142

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51
all docs

51
docs citations

51
times ranked

412
citing authors

#	ARTICLE	IF	CITATIONS
1	Electromagnetic characteristic estimation on spiral antennas through AOI, ML, and AI. Flexible and Printed Electronics, 2022, 7, 025012.	2.7	2
2	Smart manufacturing powered by recent technological advancements: A review. Journal of Manufacturing Systems, 2022, 64, 236-250.	13.9	44
3	Calibrations on Shear Angle Detections in Vertically Stacked Capacitive Tactile Sensors. IEEE Sensors Journal, 2021, 21, 26269-26276.	4.7	2
4	Novel Response Acquisition Method for Enhancing Spatial Resolution in Capacitive Tactile Sensing Array. IEEE Sensors Journal, 2021, 21, 5895-5903.	4.7	7
5	Development and Characterization of Vertically Stacked Tactile Sensor With Hollow Structure. IEEE Sensors Journal, 2021, 21, 5809-5818.	4.7	10
6	Enhancing the Detection Sensitivity in Capacitive Tactile Sensors With Optimized Electrode Shapes. IEEE Sensors Journal, 2021, 21, 26294-26303.	4.7	3
7	Machine learning-based off-line electrical characteristic prediction through in-line pattern integrity inspection. Journal of Micromechanics and Microengineering, 2021, 31, 015005.	2.6	3
8	Linear strain maximization in MEMS-elastomer hybrid configurations for isotropic electromagnetic modulations in stretchable electronics. Displays, 2020, 64, 101963.	3.7	1
9	Advanced Capacitor Arrangement for Enhanced Spatial Resolution in Tactile Sensors. , 2020, , .		0
10	Realization of Multistage Detection Sensitivity and Dynamic Range in Capacitive Tactile Sensors. IEEE Sensors Journal, 2020, 20, 9724-9732.	4.7	20
11	Soft and flexible sensor array using carbon black pillars for object recognition via pressure mapping. Measurement: Journal of the International Measurement Confederation, 2020, 159, 107781.	5.0	15
12	Multifunction Force Sensor with Hollow Structure. , 2020, , .		0
13	Surface plasmon resonance manipulation through application of mechanically generated planar and linear strain. Applied Physics Express, 2019, 12, 096504.	2.4	3
14	Strain sensor with low thermal conductivity concealing resin for enhanced detection sensitivity and improved spatial resolution. Journal of Micromechanics and Microengineering, 2019, 29, 124001.	2.6	1
15	Efficient and improved qualification method for patterns with irregular edges in printed electronics. Journal of Micromechanics and Microengineering, 2019, 29, 124005.	2.6	5
16	Five-fold sensitivity enhancement in a capacitive tactile sensor by reducing material and structural rigidity. Sensors and Actuators A: Physical, 2019, 293, 167-177.	4.1	18
17	Highly transparent and excellent electromagnetic interference shielding hybrid films composed of silver-grid/(silver nanowires and reduced graphene oxide). Materials Letters, 2019, 253, 152-155.	2.6	38
18	Continuous inkjet-patterned and flashlight-sintered strain sensor for in-line off-axis detection in Roll-to-Roll manufacturing. Mechatronics, 2019, 59, 95-103.	3.3	7

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19	An integrated method based on energy concentration for evaluating normally distributed spectra in the visible region. <i>Displays</i> , 2019, 57, 7-17.	3.7	2
20	Advanced qualification method for patterns with irregular edges in printed electronics. <i>Flexible and Printed Electronics</i> , 2019, 4, 015001.	2.7	5
21	Highly elastic and flexible multi-layered carbon black/elastomer composite based capacitive sensor arrays for soft robotics. <i>Measurement: Sensors</i> , 2019, 2-4, 100004.	1.7	11
22	Advancements in Polymeric Capacitive Tactile Sensors. , 2019, , .		3
23	Extensive Sensitivity Enhancement in Stacked Capacitive Tactile Sensors. , 2019, , .		0
24	Surface plasmonic resonance modulation by MEMS-elastomer hybrid system. , 2018, , .		1
25	Numerical analysis of a microelectromechanical system-based color filtering device with surface plasmon resonance modulation. <i>Displays</i> , 2018, 54, 20-27.	3.7	2
26	Inkjet-patterned porous split-ring resonator and its performance study on metamaterial application. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 095012.	2.6	3
27	Mechanical stress-controlled tunable active frequency-selective surface. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	15
28	Structure compensation and illumination uniformity improvement through inkjet printing in organic light-emitting diode subpixels. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2017, 35, 020601.	1.2	3
29	Porosity reduction in inkjet-printed copper film by progressive sintering on nanoparticles. <i>Thin Solid Films</i> , 2017, 627, 33-38.	1.8	23
30	Doubling the spatial resolution in capacitive tactile sensors. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2017, 16, 035001.	0.9	18
31	Vertically stacked capacitive tactile sensor with more than quadrupled spatial resolution enhancement from planar arrangement. <i>Sensors and Actuators A: Physical</i> , 2017, 263, 386-390.	4.1	26
32	Morphology and conductivity improvement of metal mesh through roll-to-roll compatible near-infrared sintering. <i>Micro and Nano Letters</i> , 2017, 12, 886-890.	1.3	6
33	Morphology and conductivity enhancement of metal mesh in OLEDs by near infrared and intense pulse light. , 2017, , .		1
34	CMOS-MEMS thermal-piezoresistive oscillators with high transduction efficiency for mass sensing applications. , 2017, , .		9
35	Methodology for evaluating pattern transfer completeness in inkjet printing with irregular edges. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 065009.	2.6	7
36	Capacitive tactile sensor with asymmetric electrodes for angle-detection-error alleviation. <i>Sensors and Actuators A: Physical</i> , 2016, 250, 159-169.	4.1	27

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37	Capacitive tactile sensor for angle detection and its accuracy study. IEEE Sensors Journal, 2016, , 1-1.	4.7	19
38	Nano metal crack initiation on polymer and its optical application with tunable metal dimensions. , 2014, , .		0
39	Thermoresistive Strain Sensor and Positioning Method for Roll-to-Roll Processes. Sensors, 2014, 14, 8082-8095.	3.8	8
40	Friction-Assisted Pulling Force Detection Mechanism for Tactile Sensors. Journal of Microelectromechanical Systems, 2014, 23, 471-481.	2.5	23
41	Critical dimension and pattern size enhancement using pre-strained lithography. Applied Physics Letters, 2014, 105, 154103.	3.3	9
42	Enlarging a post-lithography pattern modification process window with a Poisson's ratio-matching inter-layer. Microelectronic Engineering, 2014, 127, 97-101.	2.4	6
43	Post-lithography pattern modification and its application to a tunable wire grid polarizer. Nanotechnology, 2013, 24, 115306.	2.6	12
44	51.3: Pulling Force Sensing Unit for 3D Image Movement. Digest of Technical Papers SID International Symposium, 2013, 44, 713-716.	0.3	0
45	Mutual Capacitive Flexible Tactile Sensor for 3-D Image Control. Journal of Microelectromechanical Systems, 2013, 22, 804-814.	2.5	34
46	A High Sensitivity Three-Dimensional-Shape Sensing Patch Prepared by Lithography and Inkjet Printing. Sensors, 2012, 12, 4172-4186.	3.8	11
47	Zero power consumption visual curvature sensor by flexible interferometer. Sensors and Actuators A: Physical, 2011, 169, 295-300.	4.1	8
48	MEMS-Controlled Paper-Like Transmissive Flexible Display. Journal of Microelectromechanical Systems, 2010, 19, 410-418.	2.5	39
49	Novel roll-to-roll lift-off patterned active-matrix display on flexible polymer substrate. Microelectronic Engineering, 2009, 86, 979-983.	2.4	36
50	Investigation of transparent and conductive undoped Zn ₂ In ₂ O ₅ films deposited on n-type GaN layers. Journal of Applied Physics, 2002, 92, 274-280.	2.5	19