

# Chih-Hsin Chen

## List of Publications by Year in descending order

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46  
papers

1,598  
citations

394421

19  
h-index

289244

40  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1995  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a novel liquid crystal Apta-sensing platform using P-shape molecular switch. <i>Biosensors and Bioelectronics</i> , 2022, 199, 113882.	10.1	17
2	Vacuum deposited WO <sub>3</sub> /Al/Al:Ag anode for efficient red organic light-emitting diodes. <i>Organic Electronics</i> , 2022, 103, 106454.	2.6	1
3	A phosphorescent OLED with an efficiency roll-off lower than 1% at 10 <sup>4</sup> cd m <sup>-2</sup> achieved by reducing the carrier mobility of the donors in an exciplex co-host system. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4955-4964.	5.5	10
4	Detection of okadaic acid using a liquid crystal-based aptasensor by exploiting the signal enhancement effect of gold nanoparticles. <i>Biosensors and Bioelectronics: X</i> , 2022, 11, 100148.	1.7	2
5	A rapid and highly sensitive paper-based colorimetric device for the on-site screening of ammonia gas. <i>Analyst</i> , 2021, 146, 2919-2927.	3.5	10
6	Highly sensitive distance-based liquid crystalline visualization for paper-based analytical devices. <i>Analytica Chimica Acta</i> , 2021, 1154, 338328.	5.4	17
7	Structural effect of phenylcarbazole-based molecules on the exciplex-forming co-host system to achieve highly efficient phosphorescent OLEDs with low efficiency roll-off. <i>Journal of Materials Chemistry C</i> , 2021, 9, 9453-9464.	5.5	8
8	Enhancing the signal contrast ratio and stability of liquid crystal-based sensors by using fine grids made by photolithography of photoresists. <i>Analyst</i> , 2021, 146, 3834-3840.	3.5	10
9	Carbazole/Benzimidazole-Based Bipolar Molecules as the Hosts for Phosphorescent and Thermally Activated Delayed Fluorescence Emitters for Efficient OLEDs. <i>ACS Omega</i> , 2020, 5, 10553-10561.	3.5	25
10	Using Diazotization Reaction to Develop Portable Liquid-Crystal-Based Sensors for Nitrite Detection. <i>ACS Omega</i> , 2020, 5, 11809-11816.	3.5	11
11	Liquid crystal-based sensor system for detecting formaldehyde in aqueous solutions. <i>Microchemical Journal</i> , 2020, 158, 105235.	4.5	11
12	Agarose dispersed liquid crystals as a soft sensing platform for detecting mercuric ions in water. <i>Research on Chemical Intermediates</i> , 2019, 45, 5409-5423.	2.7	8
13	Thienoisindigo-Based Dopant-Free Hole Transporting Material for Efficient Perovskite Solar Cells with the Grain Size in Micrometer Scale. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1602-1609.	3.1	24
14	Developing liquid crystal-based immunoassay for melamine detection. <i>Research on Chemical Intermediates</i> , 2019, 45, 91-102.	2.7	7
15	Quantitative analysis of liquid crystal-based immunoassay using rectangular capillaries as sensing platform. <i>Optics Express</i> , 2019, 27, 17080.	3.4	5
16	Rational design of cost-effective dyes for high performance dye-sensitized cells in indoor light environments. <i>Organic Electronics</i> , 2018, 59, 69-76.	2.6	19
17	Continuous monitoring of pH level in flow aqueous system by using liquid crystal-based sensor device. <i>Microchemical Journal</i> , 2018, 139, 339-346.	4.5	14
18	Novel thienoisindigo-based dyes for near-infrared organic photovoltaics - A combination of theoretical and experimental study. <i>Organic Electronics</i> , 2017, 51, 410-421.	2.6	5

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19	Synthesis and stability study of isocyno aryl boronate esters and their synthetic applications. RSC Advances, 2016, 6, 30362-30371.	3.6	7
20	Detecting trypsin at liquid crystal/aqueous interface by using surface-immobilized bovine serum albumin. Biosensors and Bioelectronics, 2016, 78, 213-220.	10.1	34
21	Ligand-Doped Liquid Crystal Sensor System for Detecting Mercuric Ion in Aqueous Solutions. Analytical Chemistry, 2015, 87, 4546-4551.	6.5	70
22	Oligopeptide-decorated liquid crystal droplets for detecting proteases. Chemical Communications, 2014, 50, 12162-12165.	4.1	40
23	Oligopeptide immobilization strategy for improving stability and sensitivity of liquid-crystal protease assays. Sensors and Actuators B: Chemical, 2014, 204, 734-740.	7.8	12
24	Liquid crystal-based immunoassay for detecting human serum albumin. Research on Chemical Intermediates, 2014, 40, 2229-2236.	2.7	6
25	Tetrasubstituted-pyrene derivatives for electroluminescent application. Organic Electronics, 2014, 15, 2148-2157.	2.6	9
26	A liquid crystal biosensor for detecting organophosphates through the localized pH changes induced by their hydrolytic products. Sensors and Actuators B: Chemical, 2013, 181, 368-374.	7.8	59
27	Graphene/liquid crystal based terahertz phase shifters. Optics Express, 2013, 21, 21395.	3.4	84
28	Liquid crystal-based immunoassays for detecting hepatitis B antibody. Analytical Biochemistry, 2012, 421, 321-323.	2.4	37
29	Functional protease assay using liquid crystals as a signal reporter. Biosensors and Bioelectronics, 2012, 35, 174-179.	10.1	13
30	Immobilized Oligopeptide Microarrays for Detecting Proteases. , 2012, , .		0
31	Fishing DNA targets in DNA solutions by using affinity microcontact printing. Analyst, The, 2011, 136, 733-739.	3.5	5
32	Enhancing the Fluorescence Intensity of DNA Microarrays by Using Cationic Surfactants. Langmuir, 2011, 27, 5659-5664.	3.5	17
33	Improving Protein Transfer Efficiency and Selectivity in Affinity Contact Printing by Using UV-Modified Surfaces. Langmuir, 2011, 27, 5427-5432.	3.5	15
34	Dipolar Compounds Containing Fluorene and a Heteroaromatic Ring as the Conjugating Bridge for High-Performance Dye-Sensitized Solar Cells. Chemistry - A European Journal, 2010, 16, 3184-3193.	3.3	124
35	Detecting hydrogen sulfide by using transparent polymer with embedded CdSe/CdS quantum dots. Sensors and Actuators B: Chemical, 2010, 143, 535-538.	7.8	35
36	Cyclometalated Platinum(II) Complexes of Lepidine-Based Ligands as Highly Efficient Electrophosphors. Organometallics, 2010, 29, 3912-3921.	2.3	67

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37	Detection and Quantification of DNA Adsorbed on Solid Surfaces by Using Liquid Crystals. <i>Langmuir</i> , 2010, 26, 1427-1430.	3.5	55
38	Single molecule color controllable light emitting organic field effect transistors for white light emission with high color stability. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	22
39	High efficiency blue light emitting unipolar transistor incorporating multifunctional electrodes. <i>Applied Physics Letters</i> , 2009, 94, 153307.	3.3	17
40	Versatile, Benzimidazole/Amine-Based Ambipolar Compounds for Electroluminescent Applications: Single-Layer, Blue, Fluorescent OLEDs, Hosts for Single-Layer, Phosphorescent OLEDs. <i>Advanced Functional Materials</i> , 2009, 19, 2661-2670.	14.9	183
41	Benzimidazole/Amine-Based Compounds Capable of Ambipolar Transport for Application in Single-Layer Blue-Emitting OLEDs and as Hosts for Phosphorescent Emitters. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 581-585.	13.8	270
42	Crystal Engineering for $\pi$ - $\pi$ Stacking via Interaction between Electron-Rich and Electron-Deficient Heteroaromatics. <i>Journal of Organic Chemistry</i> , 2008, 73, 4608-4614.	3.2	64
43	Synthesis, structure and electroluminescent properties of cyclometalated iridium complexes possessing sterically hindered ligands. <i>Dalton Transactions</i> , 2007, , 3025.	3.3	32
44	Nonconjugated Red-Emitting Dendrimers with p-Type and/or n-Type Peripheries. <i>Organic Letters</i> , 2006, 8, 2233-2236.	4.6	42
45	Organic Electroluminescent Bis(diarylamino) Dibenzofuran Derivatives. <i>Journal of the Chinese Chemical Society</i> , 2006, 53, 1317-1324.	1.4	4
46	Stilbene like carbazole dimer-based electroluminescent materials. <i>Tetrahedron</i> , 2006, 62, 8564-8570.	1.9	19