

# Ho-Hsiu Chou

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

4,816  
citations

136950

32  
h-index

128289

60  
g-index

64  
all docs

64  
docs citations

64  
times ranked

6508  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-free four-in-one modification of g-C <sub>3</sub> N <sub>4</sub> for superior photocatalytic CO <sub>2</sub> reduction and H <sub>2</sub> evolution. <i>Chemical Engineering Journal</i> , 2022, 430, 132853.	12.7	44
2	Biaxially extended side-chain conjugation of benzodithiophene-based polymer dots for superior photocatalytic stability under visible-light irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 106927.	6.7	11
3	Sulfide oxidation tuning in 4,8-bis(5-(2-ethylhexyl)thiophen-2-yl)benzo[1,2- <i>b</i> :4,5- <i>b'</i> ]-dithiophene based dual acceptor copolymers for highly efficient photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6641-6648.	10.3	25
4	Solvent polarity tuning to enhance the crystallinity of 2D-covalent organic frameworks for visible-light-driven hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12378-12390.	10.3	43
5	Autonomously self-healing and ultrafast highly-stretching recoverable polymer through trans-octahedral metal-ligand coordination for skin-inspired tactile sensing. <i>Chemical Engineering Journal</i> , 2022, 438, 135592.	12.7	15
6	Unraveling the active sites of Cs-promoted Ru/Al <sub>2</sub> O <sub>3</sub> catalysts for ammonia synthesis. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121269.	20.2	12
7	Ultrastable Porous Organic Polymers Containing Thianthrene and Pyrene Units as Organic Electrode Materials for Supercapacitors. <i>ACS Applied Energy Materials</i> , 2022, 5, 6442-6452.	5.1	35
8	Conjugated microporous polymers incorporating Thiazolo[5,4-d]thiazole moieties for Sunlight-Driven hydrogen production from water. <i>Chemical Engineering Journal</i> , 2022, 446, 137158.	12.7	48
9	Donor-acceptor carbazole-based conjugated microporous polymers as photocatalysts for visible-light-driven H <sub>2</sub> and O <sub>2</sub> evolution from water splitting. <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121624.	20.2	46
10	Mechanistic Understanding of Visible-Light-Driven Hydrogen Evolution on Pt Sites in Organic Nanohybrids Enhanced with Hydroxyl Additives. <i>ACS Applied Energy Materials</i> , 2022, 5, 7950-7955.	5.1	0
11	Visible-light-driven hydrogen evolution using nitrogen-doped carbon quantum dot-implanted polymer dots as metal-free photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119659.	20.2	94
12	Highly thermal stable electron-transporting materials using triptycene derivatives for OLEDs. <i>Organic Electronics</i> , 2021, 88, 106013.	2.6	21
13	Triptycene-based discontinuously-conjugated covalent organic polymer photocatalysts for visible-light-driven hydrogen evolution from water. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119802.	20.2	63
14	Disulfide bond and Diels-Alder reaction bond hybrid polymers with high stretchability, transparency, recyclability, and intrinsic dual healability for skin-like tactile sensing. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6109-6116.	10.3	28
15	Pyrene-containing conjugated organic microporous polymers for photocatalytic hydrogen evolution from water. <i>Catalysis Science and Technology</i> , 2021, 11, 2229-2241.	4.1	87
16	Realizing Nonvolatile Photomemories with Multilevel Memory Behaviors Using Water-Processable Polymer Dots-Based Hybrid Floating Gates. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1708-1718.	4.3	11
17	Sulfur-doped triazine-conjugated microporous polymers for achieving the robust visible-light-driven hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021, 421, 129825.	12.7	66
18	Effect of energy bandgap and sacrificial agents of cyclopentadithiophene-based polymers for enhanced photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120577.	20.2	37

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19	Tactile sensor based on capacitive structure. , 2021, , 31-52.		3
20	Indacenodithiophene-based N-type conjugated polymers provide highly thermally stable ternary organic photovoltaics displaying a performance of 17.5%. Journal of Materials Chemistry A, 2021, 9, 9780-9790.	10.3	23
21	Carbazole- and thiophene-containing conjugated microporous polymers with different planarity for enhanced photocatalytic hydrogen evolution. Chemical Communications, 2021, 57, 11968-11971.	4.1	37
22	Plasmon-Enhanced Solar-Driven Hydrogen Evolution Using Titanium Nitride Metasurface Broadband Absorbers. ACS Photonics, 2021, 8, 3125-3132.	6.6	32
23	Tunable Pyridyl-Based Conjugated Microporous Polymers for Visible Light-Driven Hydrogen Evolution. ACS Applied Energy Materials, 2021, 4, 13140-13151.	5.1	24
24	Hydrophobic and Hydrophilic Conjugated Polymer Dots as Binary Photocatalysts for Enhanced Visible-Light-Driven Hydrogen Evolution through Förster Resonance Energy Transfer. ACS Applied Materials & Interfaces, 2021, 13, 56554-56565.	8.0	19
25	Fluorenone/carbazole based bipolar small molecules for non-volatile memory devices. Organic Electronics, 2020, 78, 105584.	2.6	11
26	Low-toxic cycloplatinated polymer dots with rational design of acceptor co-monomers for enhanced photocatalytic efficiency and stability. Applied Catalysis B: Environmental, 2020, 268, 118436.	20.2	56
27	Recent Advances in Visible-Light-Driven Hydrogen Evolution from Water using Polymer Photocatalysts. ChemCatChem, 2020, 12, 689-704.	3.7	100
28	Iridium-based polymer for memristive devices with integrated logic and arithmetic applications. Journal of Materials Chemistry C, 2020, 8, 16845-16857.	5.5	8
29	Direct sunlight-active Na-doped ZnO photocatalyst for the mineralization of organic pollutants at different pH mediums. Journal of the Taiwan Institute of Chemical Engineers, 2020, 115, 187-197.	5.3	27
30	Design and synthesis of cyclometalated iridium-based polymer dots as photocatalysts for visible light-driven hydrogen evolution. International Journal of Hydrogen Energy, 2020, 45, 32072-32081.	7.1	34
31	Covalent Organic Frameworks: Dual-Function Fluorescent Covalent Organic Frameworks: HCl Sensing and Photocatalytic H <sub>2</sub> Evolution from Water(Advanced Optical Materials 18/2020). Advanced Optical Materials, 2020, 8, 2070074.	7.3	2
32	Design and synthesis of phenylphosphine oxide-based polymer photocatalysts for highly efficient visible-light-driven hydrogen evolution. Sustainable Energy and Fuels, 2020, 4, 5264-5270.	4.9	42
33	Mechanistic Studies of Hydrogen Evolution Reaction on Donor-Acceptor Conjugated Polymer Photocatalysts. Applied Sciences (Switzerland), 2020, 10, 7017.	2.5	5
34	Dual-Function Fluorescent Covalent Organic Frameworks: HCl Sensing and Photocatalytic H <sub>2</sub> Evolution from Water. Advanced Optical Materials, 2020, 8, 2000641.	7.3	97
35	Superficial Pd nanoparticles supported on carbonaceous SBA-15 as efficient hydrotreating catalyst for upgrading biodiesel fuel. Applied Catalysis A: General, 2020, 602, 117707.	4.3	20
36	Effect of controlling the number of fused rings on polymer photocatalysts for visible-light-driven hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 22924-22929.	10.3	51

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37	Entirely, Intrinsically, and Autonomously Self-Healable, Highly Transparent, and Superstretchable Triboelectric Nanogenerator for Personal Power Sources and Self-Powered Electronic Skins. <i>Advanced Functional Materials</i> , 2019, 29, 1904626.	14.9	130
38	A bio-inspired electronic synapse using solution processable organic small molecule. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1491-1501.	5.5	59
39	Flexible Pyrene/Phenanthro[9,10- <i>cd</i> ]imidazole-Based Memristive Devices for Mimicking Synaptic Plasticity. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900008.	6.1	30
40	Design and Synthesis of Cycloplatinated Polymer Dots as Photocatalysts for Visible-Light-Driven Hydrogen Evolution. <i>ACS Catalysis</i> , 2018, 8, 7766-7772.	11.2	108
41	Effects of Molecular Structure and Packing Order on the Stretchability of Semicrystalline Conjugated Poly(Tetrathienoacene-diketopyrrolopyrrole) Polymers. <i>Advanced Electronic Materials</i> , 2017, 3, 1600311.	5.1	89
42	Indolocarbazole Derivative as a Universal Host Material for RGB and White Phosphorescent OLEDs. <i>Advanced Functional Materials</i> , 2015, 25, 5548-5556.	14.9	111
43	Ultrahigh Surface Area Three-Dimensional Porous Graphitic Carbon from Conjugated Polymeric Molecular Framework. <i>ACS Central Science</i> , 2015, 1, 68-76.	11.3	207
44	Partially-Screened Field Effect and Selective Carrier Injection at Organic Semiconductor/Graphene Heterointerface. <i>Nano Letters</i> , 2015, 15, 7587-7595.	9.1	58
45	A skin-inspired organic digital mechanoreceptor. <i>Science</i> , 2015, 350, 313-316.	12.6	708
46	A chameleon-inspired stretchable electronic skin with interactive colour changing controlled by tactile sensing. <i>Nature Communications</i> , 2015, 6, 8011.	12.8	749
47	3,6,9,12-Tetrasubstituted Chrysenes: Synthesis, Photophysical Properties, and Application as Blue Fluorescent OLED. <i>Journal of Organic Chemistry</i> , 2014, 79, 267-274.	3.2	66
48	Efficient delayed fluorescence via triplet-triplet annihilation for deep-blue electroluminescence. <i>Chemical Communications</i> , 2014, 50, 6869-6871.	4.1	104
49	Synthesis of conjugated polymers bearing indacenodithiophene and cyclometalated platinum(II) units and their application in organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2013, 109, 111-119.	6.2	31
50	New Iridium Dopants for White Phosphorescent Devices: Enhancement of Efficiency and Color Stability by an Energy-Harvesting Layer. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 6168-6175.	8.0	42
51	New selenophene-based low-band gap conjugated polymers for organic photovoltaics. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4550-4557.	2.3	10
52	Synthesis of Diimidazolylstilbenes as n-Type Blue Fluorophores: Alternative Dopant Materials for Highly Efficient Electroluminescent Devices. <i>Advanced Materials</i> , 2012, 24, 5867-5871.	21.0	110
53	Synthesis and physical properties of meta-terphenyloxadiazole derivatives and their application as electron transporting materials for blue phosphorescent and fluorescent devices. <i>Journal of Materials Chemistry</i> , 2012, 22, 17792.	6.7	30
54	Highly efficient deep-blue organic electroluminescent devices doped with hexaphenylanthracene fluorophores. <i>Journal of Materials Chemistry</i> , 2011, 21, 8122.	6.7	37

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55	Synthesis and photo- and electroluminescence properties of 3,6-disubstituted phenanthrenes: alternative host material for blue fluorophores. <i>Chemical Communications</i> , 2011, 47, 8865.	4.1	28
56	Wide-Range Color Tuning of Iridium Biscarbene Complexes from Blue to Red by Different Ligands: an Alternative Route for Adjusting the Emission Colors. <i>Advanced Materials</i> , 2011, 23, 4933-4937.	21.0	201
57	A Highly Efficient Universal Bipolar Host for Blue, Green, and Red Phosphorescent OLEDs. <i>Advanced Materials</i> , 2010, 22, 2468-2471.	21.0	540
58	Highly efficient organic light-emitting diodes (OLEDs) based on an iridium complex with rigid cyclometalated ligand. <i>Organic Electronics</i> , 2010, 11, 632-640.	2.6	14
59	Highly efficient white organic light-emitting diodes based on broad excimer emission of iridium complex. <i>Organic Electronics</i> , 2010, 11, 1165-1171.	2.6	19
60	Triptycene derivatives as high-T <sub>g</sub> host materials for various electrophosphorescent devices. <i>Journal of Materials Chemistry</i> , 2010, 20, 798-805.	6.7	55