Ho-Hsiu Chou

List of Publications by Year
in descending order

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	A chameleon-inspired stretchable electronic skin with interactive colour changing controlled by tactile sensing. Nature Communications, 2015, 6, 8011.	12.8	749
2	A skin-inspired organic digital mechanoreceptor. Science, 2015, 350, 313-316.	12.6	708
3	A Highly Efficient Universal Bipolar Host for Blue, Green, and Red Phosphorescent OLEDs. Advanced Materials, 2010, 22, 2468-2471.	21.0	540
4	Ultrahigh Surface Area Three-Dimensional Porous Graphitic Carbon from Conjugated Polymeric Molecular Framework. ACS Central Science, 2015, 1, 68-76.	11.3	207
5	Wideâ€Range Color Tuning of Iridium Biscarbene Complexes from Blue to Red by Different NâN Ligands: an Alternative Route for Adjusting the Emission Colors. Advanced Materials, 2011, 23, 4933-4937.	21.0	201
6	Entirely, Intrinsically, and Autonomously Selfâ€Healable, Highly Transparent, and Superstretchable Triboelectric Nanogenerator for Personal Power Sources and Selfâ€Powered Electronic Skins. Advanced Functional Materials, 2019, 29, 1904626.	14.9	130
7	mâ€Indolocarbazole Derivative as a Universal Host Material for RGB and White Phosphorescent OLEDs. Advanced Functional Materials, 2015, 25, 5548-5556.	14.9	111
8	Synthesis of Diimidazolylstilbenes as nâ€Type Blue Fluorophores: Alternative Dopant Materials for Highly Efficient Electroluminescent Devices. Advanced Materials, 2012, 24, 5867-5871.	21.0	110
9	Design and Synthesis of Cycloplatinated Polymer Dots as Photocatalysts for Visible-Light-Driven Hydrogen Evolution. ACS Catalysis, 2018, 8, 7766-7772.	11.2	108
10	Efficient delayed fluorescence via tripletâ€“triplet annihilation for deep-blue electroluminescence. Chemical Communications, 2014, 50, 6869-6871.	4.1	104
11	Recent Advances in Visibleâ€Lightâ€Driven Hydrogen Evolution from Water using Polymer Photocatalysts. ChemCatChem, 2020, 12, 689-704.	3.7	100
12	Dualâ€Function Fluorescent Covalent Organic Frameworks: HCl Sensing and Photocatalytic H₂ Evolution from Water. Advanced Optical Materials, 2020, 8, 2000641.	7.3	97
13	Visible-light-driven hydrogen evolution using nitrogen-doped carbon quantum dot-implanted polymer dots as metal-free photocatalysts. Applied Catalysis B: Environmental, 2021, 283, 119659.	20.2	94
14	Effects of Molecular Structure and Packing Order on the Stretchability of Semicrystalline Conjugated Poly(Tetrathienoaceneâ€diketopyrrolopyrrole) Polymers. Advanced Electronic Materials, 2017, 3, 1600311.	5.1	89
15	Pyrene-containing conjugated organic microporous polymers for photocatalytic hydrogen evolution from water. Catalysis Science and Technology, 2021, 11, 2229-2241.	4.1	87
16	3,6,9,12-Tetrasubstituted Chrysenes: Synthesis, Photophysical Properties, and Application as Blue Fluorescent OLED. Journal of Organic Chemistry, 2014, 79, 267-274.	3.2	66
17	Sulfur-doped triazine-conjugated microporous polymers for achieving the robust visible-light-driven hydrogen evolution. Chemical Engineering Journal, 2021, 421, 129825.	12.7	66
18	Triptycene-based discontinuously-conjugated covalent organic polymer photocatalysts for visible-light-driven hydrogen evolution from water. Applied Catalysis B: Environmental, 2021, 285, 119802.	20.2	63

#	Article	IF	Citations
19	A bio-inspired electronic synapse using solution processable organic small molecule. Journal of Materials Chemistry C, 2019, 7, 1491-1501.	5.5	59
20	Partially-Screened Field Effect and Selective Carrier Injection at Organic Semiconductor/Graphene Heterointerface. Nano Letters, 2015, 15, 7587-7595.	9.1	58
21	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
22	Triptycene derivatives as high-T_ghost materials for various electrophosphorescent devices. Journal of Materials Chemistry, 2010, 20, 798-805.	6.7	55
23	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
24	Conjugated microporous polymers incorporating Thiazolo[5,4-d]thiazole moieties for Sunlight-Driven hydrogen production from water. Chemical Engineering Journal, 2022, 446, 137158.	12.7	48
25	Donor-acceptor carbazole-based conjugated microporous polymers as photocatalysts for visible-light-driven H2 and O2 evolution from water splitting. Applied Catalysis B: Environmental, 2022, 316, 121624.	20.2	46
26	Metal-free four-in-one modification of g-C3N4 for superior photocatalytic CO2 reduction and H2 evolution. Chemical Engineering Journal, 2022, 430, 132853.	12.7	44
27	Solvent polarity tuning to enhance the crystallinity of 2D-covalent organic frameworks for visible-light-driven hydrogen generation. Journal of Materials Chemistry A, 2022, 10, 12378-12390.	10.3	43
28	New Iridium Dopants for White Phosphorescent Devices: Enhancement of Efficiency and Color Stability by an Energy-Harvesting Layer. ACS Applied Materials & Interfaces, 2013, 5, 6168-6175.	8.0	42
29	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
30	Highly efficient deep-blue organic electroluminescent devices doped with hexaphenylanthracene fluorophores. Journal of Materials Chemistry, 2011, 21, 8122.	6.7	37
31	Effect of energy bandgap and sacrificial agents of cyclopentadithiophene-based polymers for enhanced photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2021, 298, 120577.	20.2	37
32	Carbazole- and thiophene-containing conjugated microporous polymers with different planarity for enhanced photocatalytic hydrogen evolution. Chemical Communications, 2021, 57, 11968-11971.	4.1	37
33	Ultrastable Porous Organic Polymers Containing Thianthrene and Pyrene Units as Organic Electrode Materials for Supercapacitors. ACS Applied Energy Materials, 2022, 5, 6442-6452.	5.1	35
34	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
35	Plasmon-Enhanced Solar-Driven Hydrogen Evolution Using Titanium Nitride Metasurface Broadband Absorbers. ACS Photonics, 2021, 8, 3125-3132.	6.6	32
36	Synthesis of conjugated polymers bearing indacenodithiophene and cyclometalated platinum(II) units and their application in organic photovoltaics. Solar Energy Materials and Solar Cells, 2013, 109, 111-119.	6.2	31

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37	Synthesis and physical properties of meta-terphenyloxadiazole derivatives and their application as electron transporting materials for blue phosphorescent and fluorescent devices. Journal of Materials Chemistry, 2012, 22, 17792.	6.7	30
38	Flexible Pyrene/Phenanthro[9,10â€d]imidazoleâ€Based Memristive Devices for Mimicking Synaptic Plasticity. Advanced Intelligent Systems, 2019, 1, 1900008.	6.1	30
39	Synthesis and photo- and electroluminescence properties of 3,6-disubstituted phenanthrenes: alternative host material for blue fluorophores. Chemical Communications, 2011, 47, 8865.	4.1	28
40	Disulfide bond and Dielsâ€“Alder reaction bond hybrid polymers with high stretchability, transparency, recyclability, and intrinsic dual healability for skin-like tactile sensing. Journal of Materials Chemistry A, 2021, 9, 6109-6116.	10.3	28
41	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
42	Sulfide oxidation tuning in 4,8-bis(5-(2-ethylhexyl)thiophen-2-yl)benzo[1,2-b:4,5-bâ€²]dithiophene based dual acceptor copolymers for highly efficient photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2022, 10, 6641-6648.	10.3	25
43	Tunable Pyridyl-Based Conjugated Microporous Polymers for Visible Light-Driven Hydrogen Evolution. ACS Applied Energy Materials, 2021, 4, 13140-13151.	5.1	24
44	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
45	Highly thermal stable electron-transporting materials using triptycene derivatives for OLEDs. Organic Electronics, 2021, 88, 106013.	2.6	21
46	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
47	Highly efficient white organic light-emitting diodes based on broad excimer emission of iridium complex. Organic Electronics, 2010, 11, 1165-1171.	2.6	19
48	Hydrophobic and Hydrophilic Conjugated Polymer Dots as Binary Photocatalysts for Enhanced Visible-Light-Driven Hydrogen Evolution through FÃ¶rster Resonance Energy Transfer. ACS Applied Materials & Interfaces, 2021, 13, 56554-56565.	8.0	19
49	Autonomously self-healing and ultrafast highly-stretching recoverable polymer through trans-octahedral metal-ligand coordination for skin-inspired tactile sensing. Chemical Engineering Journal, 2022, 438, 135592.	12.7	15
50	Highly efficient organic light-emitting diodes (OLEDs) based on an iridium complex with rigid cyclometalated ligand. Organic Electronics, 2010, 11, 632-640.	2.6	14
51	Unraveling the active sites of Cs-promoted Ru/Î³-Al2O3 catalysts for ammonia synthesis. Applied Catalysis B: Environmental, 2022, 310, 121269.	20.2	12
52	Fluorenone/carbazole based bipolar small molecules for non-volatile memory devices. Organic Electronics, 2020, 78, 105584.	2.6	11
53	Realizing Nonvolatile Photomemories with Multilevel Memory Behaviors Using Water-Processable Polymer Dots-Based Hybrid Floating Gates. ACS Applied Electronic Materials, 2021, 3, 1708-1718.	4.3	11
54	Biaxially extended side-chain conjugation of benzodithiophene-based polymer dots for superior photocatalytic stability under visible-light irradiation. Journal of Environmental Chemical Engineering, 2022, 10, 106927.	6.7	11

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55	New selenophene-based low-band gap conjugated polymers for organic photovoltaics. Journal of Polymer Science Part A, 2013, 51, 4550-4557.	2.3	10
56	Iridium-based polymer for memristive devices with integrated logic and arithmetic applications. Journal of Materials Chemistry C, 2020, 8, 16845-16857.	5.5	8
57	Mechanistic Studies of Hydrogen Evolution Reaction on Donor-Acceptor Conjugated Polymer Photocatalysts. Applied Sciences (Switzerland), 2020, 10, 7017.	2.5	5
58	Tactile sensor based on capacitive structure. , 2021, , 31-52.		3
59	Covalent Organic Frameworks: Dualâ€Function Fluorescent Covalent Organic Frameworks: HCl Sensing and Photocatalytic H₂ Evolution from Water(Advanced Optical Materials 18/2020). Advanced Optical Materials, 2020, 8, 2070074.	7.3	2
60	Mechanistic Understanding of Visible-Light-Driven Hydrogen Evolution on Pt Sites in Organic Nanohybrids Enhanced with Hydroxyl Additives. ACS Applied Energy Materials, 2022, 5, 7950-7955.	5.1	0