Chung-Wei Kung

List of Publications by Year
in descending order

90 papers	6,403 citations	50244 46 h-index	64755 79 g-index
93 all docs	93 docs citations	93 times ranked	8690 citing authors

#	Article	IF	Citations
1	CoS Acicular Nanorod Arrays for the Counter Electrode of an Efficient Dye-Sensitized Solar Cell. ACS Nano, 2012, 6, 7016-7025.	7.3	333
2	Directed Growth of Electroactive Metalâ€Organic Framework Thin Films Using Electrophoretic Deposition. Advanced Materials, 2014, 26, 6295-6300.	11.1	265
3	Harnessing MOF materials in photovoltaic devices: recent advances, challenges, and perspectives. Journal of Materials Chemistry A, 2019, 7, 17079-17095.	5.2	253
4	Metalâ€“Organic Framework Thin Films Composed of Free-Standing Acicular Nanorods Exhibiting Reversible Electrochromism. Chemistry of Materials, 2013, 25, 5012-5017.	3.2	242
5	A porous proton-relaying metal-organic framework material that accelerates electrochemical hydrogen evolution. Nature Communications, 2015, 6, 8304.	5.8	239
6	Highly efficient dye-sensitized solar cell with a ZnO nanosheet-based photoanode. Energy and Environmental Science, 2011, 4, 3448.	15.6	196
7	Cobalt oxide acicular nanorods with high sensitivity for the non-enzymatic detection of glucose. Biosensors and Bioelectronics, 2011, 27, 125-131.	5.3	178
8	MOF Functionalization via Solvent-Assisted Ligand Incorporation: Phosphonates vs Carboxylates. Inorganic Chemistry, 2015, 54, 2185-2192.	1.9	177
9	Porphyrin-based metalâ€“organic framework thin films for electrochemical nitrite detection. Electrochemistry Communications, 2015, 58, 51-56.	2.3	171
10	Increased Electrical Conductivity in a Mesoporous Metalâ€“Organic Framework Featuring Metallacarboranes Guests. Journal of the American Chemical Society, 2018, 140, 3871-3875.	6.6	158
11	A porous, electrically conductive hexa-zirconium(<scp>iv</scp>) metalâ€“organic framework. Chemical Science, 2018, 9, 4477-4482.	3.7	158
12	Copper Nanoparticles Installed in Metalâ€“Organic Framework Thin Films are Electrocatalytically Competent for CO₂ Reduction. ACS Energy Letters, 2017, 2, 2394-2401.	8.8	157
13	Metalâ€“Organic Framework Thin Films as Platforms for Atomic Layer Deposition of Cobalt Ions To Enable Electrocatalytic Water Oxidation. ACS Applied Materials & Interfaces, 2015, 7, 28223-28230.	4.0	145
14	Planar Heterojunction Perovskite Solar Cells Incorporating Metalâ€“Organic Framework Nanocrystals. Advanced Materials, 2015, 27, 7229-7235.	11.1	134
15	Coreâ€“Shell Gold Nanorod@Zirconium-Based Metalâ€“Organic Framework Composites as in Situ Size-Selective Raman Probes. Journal of the American Chemical Society, 2019, 141, 3893-3900.	6.6	119
16	Synthesis of Co3O4 nanosheets via electrodeposition followed by ozone treatment and their application to high-performance supercapacitors. Journal of Power Sources, 2012, 214, 91-99.	4.0	114
17	Fine-Tuning the Activity of Metalâ€“Organic Framework-Supported Cobalt Catalysts for the Oxidative Dehydrogenation of Propane. Journal of the American Chemical Society, 2017, 139, 15251-15258.	6.6	112
18	In situ growth of porphyrinic metalâ€“organic framework nanocrystals on graphene nanoribbons for the electrocatalytic oxidation of nitrite. Journal of Materials Chemistry A, 2016, 4, 10673-10682.	5.2	109

#	Article	IF	Citations
19	Metal-organic framework/sulfonated polythiophene on carbon cloth as a flexible counter electrode for dye-sensitized solar cells. Nano Energy, 2017, 32, 19-27.	8.2	109
20	A high performance electrochemical sensor for acetaminophen based on a rGOâ€“PEDOT nanotube composite modified electrode. Journal of Materials Chemistry A, 2014, 2, 7229-7237.	5.2	106
21	Single layer of nickel hydroxide nanoparticles covered on a porous Ni foam and its application for highly sensitive non-enzymatic glucose sensor. Sensors and Actuators B: Chemical, 2014, 204, 159-166.	4.0	104
22	Stabilization of Formate Dehydrogenase in a Metalâ€“Organic Framework for Bioelectrocatalytic Reduction of CO₂. Angewandte Chemie - International Edition, 2019, 58, 7682-7686.	7.2	103
23	Metalâ€'Organic Frameworks toward Electrochemical Sensors: Challenges and Opportunities. Electroanalysis, 2020, 32, 1885-1895.	1.5	103
24	Charge Transport in Zirconium-Based Metalâ€“Organic Frameworks. Accounts of Chemical Research, 2020, 53, 1187-1195.	7.6	100
25	Achieving Low-Energy Driven Viologens-Based Electrochromic Devices Utilizing Polymeric Ionic Liquids. ACS Applied Materials & Interfaces, 2016, 8, 30351-30361.	4.0	97
26	Enhanced Charge Collection in MOFâ€525â€“PEDOT Nanotube Composites Enable Highly Sensitive Biosensing. Advanced Science, 2017, 4, 1700261.	5.6	95
27	Post metalation of solvothermally grown electroactive porphyrin metalâ€“organic framework thin films. Chemical Communications, 2015, 51, 2414-2417.	2.2	94
28	Redox-Mediator-Assisted Electrocatalytic Hydrogen Evolution from Water by a Molybdenum Sulfide-Functionalized Metalâ€“Organic Framework. ACS Catalysis, 2018, 8, 9848-9858.	5.5	91
29	Impregnation of Graphene Quantum Dots into a Metalâ€“Organic Framework to Render Increased Electrical Conductivity and Activity for Electrochemical Sensing. ACS Applied Materials & Interfaces, 2019, 11, 35319-35326.	4.0	87
30	Fabrication of a ZnO film with a mosaic structure for a high efficient dye-sensitized solar cell. Journal of Materials Chemistry, 2010, 20, 9379.	6.7	85
31	Highly efficient plastic-based quasi-solid-state dye-sensitized solarÂcells with light-harvesting mesoporous silica nanoparticles gel-electrolyte. Journal of Power Sources, 2014, 245, 411-417.	4.0	82
32	Room Temperature Synthesis of an 8-Connected Zr-Based Metalâ€“Organic Framework for Top-Down Nanoparticle Encapsulation. Chemistry of Materials, 2018, 30, 2193-2197.	3.2	80
33	An electrochromic device based on Prussian blue, self-immobilized vinyl benzyl viologen, and ferrocene. Solar Energy Materials and Solar Cells, 2016, 147, 75-84.	3.0	78
34	A highly efficient dye-sensitized solar cell with a platinum nanoflowers counter electrode. Journal of Materials Chemistry, 2012, 22, 5550.	6.7	76
35	Inkjet-printed porphyrinic metalâ€“organic framework thin films for electrocatalysis. Journal of Materials Chemistry A, 2016, 4, 11094-11102.	5.2	73
36	Thermally Cured Dual Functional Viologen-Based All-in-One Electrochromic Devices with Panchromatic Modulation. ACS Applied Materials & Interfaces, 2016, 8, 4175-4184.	4.0	73

#	Article	IF	Citations
37	Efficiency Enhancement of Hybrid Perovskite Solar Cells with MEH-PPV Hole-Transporting Layers. Scientific Reports, 2016, 6, 34319.	1.6	72
38	Anisotropic Redox Conductivity within a Metalâ€“Organic Framework Material. Journal of the American Chemical Society, 2019, 141, 17696-17702.	6.6	71
39	Direct Imaging of Isolated Single-Molecule Magnets in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 2997-3005.	6.6	71
40	Improving the Efficiency of Mustard Gas Simulant Detoxification by Tuning the Singlet Oxygen Quantum Yield in Metalâ€“Organic Frameworks and Their Corresponding Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 23802-23806.	4.0	67
41	Electronically conductive metalâ€“organic framework-based materials. APL Materials, 2019, 7, .	2.2	66
42	A gold surface plasmon enhanced mesoporous titanium dioxide photoelectrode for the plastic-based flexible dye-sensitized solar cells. Journal of Power Sources, 2015, 288, 221-228.	4.0	61
43	Poly(3,4-ethylenedioxythiophene) (PEDOT) hollow microflowers and their application for nitrite sensing. Sensors and Actuators B: Chemical, 2014, 192, 762-768.	4.0	58
44	Metalâ€“Organic Frameworks Toward Electrocatalytic Applications. Applied Sciences (Switzerland), 2019, 9, 2427.	1.3	55
45	Inorganic â€œConductive Glassâ€•Approach to Rendering Mesoporous Metalâ€“Organic Frameworks Electronically Conductive and Chemically Responsive. ACS Applied Materials & Interfaces, 2018, 10, 30532-30540.	4.0	54
46	Pore-Confined Silver Nanoparticles in a Porphyrinic Metalâ€“Organic Framework for Electrochemical Nitrite Detection. ACS Applied Nano Materials, 2020, 3, 9440-9448.	2.4	50
47	Cerium-Based Metalâ€“Organic Framework Nanocrystals Interconnected by Carbon Nanotubes for Boosting Electrochemical Capacitor Performance. ACS Applied Materials & Interfaces, 2021, 13, 16418-16426.	4.0	50
48	Pore-Templated Growth of Catalytically Active Gold Nanoparticles within a Metalâ€“Organic Framework. Chemistry of Materials, 2019, 31, 1485-1490.	3.2	47
49	Proton Conducting Self-Assembled Metalâ€“Organic Framework/Polyelectrolyte Hollow Hybrid Nanostructures. ACS Applied Materials & Interfaces, 2016, 8, 23015-23021.	4.0	46
50	Plastic based dye-sensitized solar cells using Co9S8 acicular nanotube arrays as the counter electrode. Journal of Materials Chemistry A, 2013, 1, 13759.	5.2	44
51	Epitaxial Growth of Î³-Cyclodextrin-Containing Metalâ€“Organic Frameworks Based on a Hostâ€“Guest Strategy. Journal of the American Chemical Society, 2018, 140, 11402-11407.	6.6	44
52	An electrochromic device based on all-in-one polymer gel through in-situ thermal polymerization. Solar Energy Materials and Solar Cells, 2016, 145, 61-68.	3.0	40
53	Toward Metalâ€“Organicâ€Frameworkâ€Based Supercapacitors: Roomâ€Temperature Synthesis of Electrically Conducting MOFâ€Based Nanocomposites Decorated with Redoxâ€Active Manganese. European Journal of Inorganic Chemistry, 2019, 2019, 3036-3044.	1.0	35
54	Electrochemical Evolution of Pore-Confined Metallic Molybdenum in a Metalâ€“Organic Framework (MOF) for All-MOF-Based Pseudocapacitors. ACS Applied Energy Materials, 2020, 3, 6258-6267.	2.5	33

#	Article	IF	Citations
55	An all-organic solid-state electrochromic device containing poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (fluo Cells, 2015, 143, 606-612.	3.0	31
56	Electrodeposition of pore-confined cobalt in metalâ€“organic framework thin films toward electrochemical H2O2 detection. Electrochimica Acta, 2020, 347, 136276.	2.6	31
57	Group 4 Metal-Based Metalâ€”Organic Frameworks for Chemical Sensors. Chemosensors, 2021, 9, 306.	1.8	29
58	Polyoxometalate adsorbed in a metalâ€“organic framework for electrocatalytic dopamine oxidation. Chemical Communications, 2020, 56, 11763-11766.	2.2	28
59	3D Printing of Metalâ€“Organic Framework-Based Ionogels: Wearable Sensors with Colorimetric and Mechanical Responses. ACS Applied Materials & Interfaces, 2022, 14, 28247-28257.	4.0	28
60	Hollow microflower arrays of PEDOT and their application for the counter electrode of a dye-sensitized solar cell. Journal of Materials Chemistry A, 2013, 1, 10693.	5.2	26
61	Electroactive Ferrocene at or near the Surface of Metalâ€“Organic Framework UiO-66. Langmuir, 2018, 34, 4707-4714.	1.6	23
62	Proton-Conductive Cerium-Based Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2021, 13, 55358-55366.	4.0	23
63	Synthesis of cobalt oxide thin films in the presence of various anions and their application for the detection of acetaminophen. Sensors and Actuators B: Chemical, 2013, 182, 429-438.	4.0	22
64	Electrochemical synthesis of a doubleâ€layer film of ZnO nanosheets/nanoparticles and its application for dyeâ€sensitized solar cells. Progress in Photovoltaics: Research and Applications, 2014, 22, 440-451.	4.4	22
65	Size-Tunable Synthesis of Palladium Nanoparticles Confined within Topologically Distinct Metalâ€“Organic Frameworks for Catalytic Dehydrogenation of Methanol. Journal of Physical Chemistry C, 2020, 124, 12521-12530.	1.5	22
66	Modification of glassy carbon electrode with a polymer/mediator composite and its application for the electrochemical detection of iodate. Analytica Chimica Acta, 2012, 737, 55-63.	2.6	21
67	Liquidâ€Phase Epitaxially Grown Metalâ€“Organic Framework Thin Films for Efficient Tandem Catalysis Through Siteâ€Isolation of Catalytic Centers. ChemPlusChem, 2016, 81, 708-713.	1.3	21
68	Zirconium-Based Metalâ€“Organic Framework Nanocomposites Containing Dimensionally Distinct Nanocarbons for Pseudocapacitors. ACS Applied Nano Materials, 2020, 3, 1448-1456.	2.4	21
69	Selective Formation of Polyaniline Confined in the Nanopores of a Metalâ€“Organic Framework for Supercapacitors. Chemistry - A European Journal, 2021, 27, 3560-3567.	1.7	21
70	Redox-Hopping and Electrochemical Behaviors of Metalâ€“Organic Framework Thin Films Fabricated by Various Approaches. Journal of Physical Chemistry C, 2020, 124, 20854-20863.	1.5	18
71	Ce-MOF derived ceria: Insights into the Na-ion storage mechanism as a high-rate performance anode material. Applied Materials Today, 2021, 22, 100935.	2.3	18
72	Graphene Nanosheets/Poly(3,4-ethylenedioxythiophene) Nanotubes Composite Materials for Electrochemical Biosensing Applications. Electrochimica Acta, 2015, 172, 61-70.	2.6	17

#	Article	IF	Citations
73	Metalâ€“Organic Framework Colloids: Disassembly and Deaggregation. Langmuir, 2016, 32, 6123-6129.	1.6	17
74	Synthesis of Co3O4 thin films by chemical bath deposition in the presence of different anions and application to H2O2 sensing. Procedia Engineering, 2011, 25, 847-850.	1.2	16
75	Nickelâ€“Carbonâ€“Zirconium Material Derived from Nickel-Oxide Clusters Installed in a Metalâ€“Organic Framework Scaffold by Atomic Layer Deposition. Langmuir, 2018, 34, 14143-14150.	1.6	16
76	Low-temperature and template-free fabrication of cobalt oxide acicular nanotube arrays and their applications in supercapacitors. Journal of Materials Chemistry A, 2015, 3, 4042-4048.	5.2	15
77	An iridium-decorated metalâ€“organic framework for electrocatalytic oxidation of nitrite. Electrochemistry Communications, 2021, 122, 106899.	2.3	13
78	Transport Diffusion of Linear Alkanes (C₅â€“C₁₆) through Thin Films of ZIF-8 as Assessed by Quartz Crystal Microgravimetry. Langmuir, 2021, 37, 9405-9414.	1.6	9
79	Cerium-based metalâ€“organic framework as an electrocatalyst for the reductive detection of dopamine. Electrochemistry Communications, 2022, 135, 107206.	2.3	7
80	A Single Potassium-Ion Conducting Metalâ€“Organic Framework. ACS Applied Energy Materials, 2022, 5, 8573-8580.	2.5	6
81	Probing the electronic and ionic transport in topologically distinct redox-active metalâ€“organic frameworks in aqueous electrolytes. Physical Chemistry Chemical Physics, 2022, 24, 9855-9865.	1.3	5
82	Iridiumâ€Functionalized Metalâ€Organic Framework Nanocrystals Interconnected by Carbon Nanotubes Competent for Electrocatalytic Water Oxidation. ChemCatChem, 2022, 14, .	1.8	5
83	Metalâ€“organic framework functionalized poly-cyclodextrin membranes confining polyaniline for charge storage. Chemical Communications, 2022, 58, 6590-6593.	2.2	4
84	Probing Local Donorâ€“Acceptor Charge Transfer in a Metalâ€“Organic Framework Via a Scanning Tunneling Microscope. Journal of Physical Chemistry C, 2020, 124, 21635-21640.	1.5	3
85	Fabrication of a Polymer/Mediator Composite Modified Electrode and its Application to Electrochemical Detection of Iodate. Procedia Engineering, 2011, 25, 1453-1456.	1.2	1
86	Molybdenum-functionalized metalâ€“organic framework crystals interconnected by carbon nanotubes as negative electrodes for supercapacitors. MRS Energy & Sustainability, 2022, 9, 332-341.	1.3	1
87	Pore-confined cobalt sulphide nanoparticles in a metalâ€“organic framework as a catalyst for the colorimetric detection of hydrogen peroxide. Materials Advances, 2022, 3, 6364-6372.	2.6	1
88	Synthesizing of a ZnO film with nanosheets structure on Ti foil for flexible dye-sensitized solar cells. , 2011, , .		0
89	Toward Metalâ€“Organicâ€Frameworkâ€Based Supercapacitors: Roomâ€Temperature Synthesis of Electrically Conducting MOFâ€Based Nanocomposites Decorated with Redoxâ€Active Manganese. European Journal of Inorganic Chemistry, 2019, 2019, 3034-3034.	1.0	0
90	Front Cover: Iridiumâ€Functionalized Metalâ€Organic Framework Nanocrystals Interconnected by Carbon Nanotubes Competent for Electrocatalytic Water Oxidation (ChemCatChem 15/2022). ChemCatChem, 2022, 14, .	1.8	0