Chung-Wei Kung

List of Publications by Year
in descending order

90 papers	6,403 citations	50276 46 h-index	64796 79 g-index
93 all docs	93 docs citations	93 times ranked	8690 citing authors

#	Article	IF	Citations
1	Cerium-based metalâ€“organic framework as an electrocatalyst for the reductive detection of dopamine. Electrochemistry Communications, 2022, 135, 107206.	4.7	7
2	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.	2.8	5
3	Iridiumâ€Functionalized Metalâ€Organic Framework Nanocrystals Interconnected by Carbon Nanotubes Competent for Electrocatalytic Water Oxidation. ChemCatChem, 2022, 14, .	3.7	5
4	Metalâ€“organic framework functionalized poly-cyclodextrin membranes confining polyaniline for charge storage. Chemical Communications, 2022, 58, 6590-6593.	4.1	4
5	3D Printing of Metalâ€“Organic Framework-Based Ionogels: Wearable Sensors with Colorimetric and Mechanical Responses. ACS Applied Materials & Interfaces, 2022, 14, 28247-28257.	8.0	28
6	Molybdenum-functionalized metalâ€“organic framework crystals interconnected by carbon nanotubes as negative electrodes for supercapacitors. MRS Energy & Sustainability, 2022, 9, 332-341.	3.0	1
7	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.	5.4	1
8	A Single Potassium-Ion Conducting Metalâ€“Organic Framework. ACS Applied Energy Materials, 2022, 5, 8573-8580.	5.1	6
9	Front Cover: Iridiumâ€Functionalized Metalâ€Organic Framework Nanocrystals Interconnected by Carbon Nanotubes Competent for Electrocatalytic Water Oxidation (ChemCatChem 15/2022). ChemCatChem, 2022, 14, .	3.7	0
10	Selective Formation of Polyaniline Confined in the Nanopores of a Metalâ€“Organic Framework for Supercapacitors. Chemistry - A European Journal, 2021, 27, 3560-3567.	3.3	21
11	An iridium-decorated metalâ€“organic framework for electrocatalytic oxidation of nitrite. Electrochemistry Communications, 2021, 122, 106899.	4.7	13
12	Ce-MOF derived ceria: Insights into the Na-ion storage mechanism as a high-rate performance anode material. Applied Materials Today, 2021, 22, 100935.	4.3	18
13	Cerium-Based Metalâ€“Organic Framework Nanocrystals Interconnected by Carbon Nanotubes for Boosting Electrochemical Capacitor Performance. ACS Applied Materials & Interfaces, 2021, 13, 16418-16426.	8.0	50
14	Transport Diffusion of Linear Alkanes (C₅â€“C₁₆) through Thin Films of ZIF-8 as Assessed by Quartz Crystal Microgravimetry. Langmuir, 2021, 37, 9405-9414.	3.5	9
15	Group 4 Metal-Based Metalâ€"Organic Frameworks for Chemical Sensors. Chemosensors, 2021, 9, 306.	3.6	29
16	Proton-Conductive Cerium-Based Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2021, 13, 55358-55366.	8.0	23
17	Zirconium-Based Metalâ€“Organic Framework Nanocomposites Containing Dimensionally Distinct Nanocarbons for Pseudocapacitors. ACS Applied Nano Materials, 2020, 3, 1448-1456.	5.0	21
18	Redox-Hopping and Electrochemical Behaviors of Metalâ€“Organic Framework Thin Films Fabricated by Various Approaches. Journal of Physical Chemistry C, 2020, 124, 20854-20863.	3.1	18

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19	Pore-Confined Silver Nanoparticles in a Porphyrinic Metalâ€“Organic Framework for Electrochemical Nitrite Detection. ACS Applied Nano Materials, 2020, 3, 9440-9448.	5.0	50
20	Polyoxometalate adsorbed in a metalâ€“organic framework for electrocatalytic dopamine oxidation. Chemical Communications, 2020, 56, 11763-11766.	4.1	28
21	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.	3.1	3
22	Charge Transport in Zirconium-Based Metalâ€“Organic Frameworks. Accounts of Chemical Research, 2020, 53, 1187-1195.	15.6	100
23	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.	5.1	33
24	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.	3.1	22
25	Metalâˆ’Organic Frameworks toward Electrochemical Sensors: Challenges and Opportunities. Electroanalysis, 2020, 32, 1885-1895.	2.9	103
26	Electrodeposition of pore-confined cobalt in metalâ€“organic framework thin films toward electrochemical H2O2 detection. Electrochimica Acta, 2020, 347, 136276.	5.2	31
27	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.	8.0	87
28	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.	2.0	0
29	Anisotropic Redox Conductivity within a Metalâ€“Organic Framework Material. Journal of the American Chemical Society, 2019, 141, 17696-17702.	13.7	71
30	Coreâ€“Shell Gold Nanorod@Zirconium-Based Metalâ€“Organic Framework Composites as <i>in Situ</i> Size-Selective Raman Probes. Journal of the American Chemical Society, 2019, 141, 3893-3900.	13.7	119
31	Metalâ€“Organic Frameworks Toward Electrocatalytic Applications. Applied Sciences (Switzerland), 2019, 9, 2427.	2.5	55
32	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.	2.0	35
33	Harnessing MOF materials in photovoltaic devices: recent advances, challenges, and perspectives. Journal of Materials Chemistry A, 2019, 7, 17079-17095.	10.3	253
34	Stabilization of Formate Dehydrogenase in a Metalâ€“Organic Framework for Bioelectrocatalytic Reduction of CO₂. Angewandte Chemie - International Edition, 2019, 58, 7682-7686.	13.8	103
35	Pore-Templated Growth of Catalytically Active Gold Nanoparticles within a Metalâ€“Organic Framework. Chemistry of Materials, 2019, 31, 1485-1490.	6.7	47
36	Electronically conductive metalâ€“organic framework-based materials. APL Materials, 2019, 7, .	5.1	66

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37	Direct Imaging of Isolated Single-Molecule Magnets in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 2997-3005.	13.7	71
38	Increased Electrical Conductivity in a Mesoporous Metalâ€“Organic Framework Featuring Metallacarboranes Guests. Journal of the American Chemical Society, 2018, 140, 3871-3875.	13.7	158
39	A porous, electrically conductive hexa-zirconium(<scp>iv</scp>) metalâ€“organic framework. Chemical Science, 2018, 9, 4477-4482.	7.4	158
40	Electroactive Ferrocene at or near the Surface of Metalâ€“Organic Framework UiO-66. Langmuir, 2018, 34, 4707-4714.	3.5	23
41	Room Temperature Synthesis of an 8-Connected Zr-Based Metalâ€“Organic Framework for Top-Down Nanoparticle Encapsulation. Chemistry of Materials, 2018, 30, 2193-2197.	6.7	80
42	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.	3.5	16
43	Redox-Mediator-Assisted Electrocatalytic Hydrogen Evolution from Water by a Molybdenum Sulfide-Functionalized Metalâ€“Organic Framework. ACS Catalysis, 2018, 8, 9848-9858.	11.2	91
44	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.	8.0	67
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.	8.0	54
46	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.	13.7	44
47	Metal-organic framework/sulfonated polythiophene on carbon cloth as a flexible counter electrode for dye-sensitized solar cells. Nano Energy, 2017, 32, 19-27.	16.0	109
48	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.	13.7	112
49	Enhanced Charge Collection in MOFâ€•525â€“PEDOT Nanotube Composites Enable Highly Sensitive Biosensing. Advanced Science, 2017, 4, 1700261.	11.2	95
50	Copper Nanoparticles Installed in Metalâ€“Organic Framework Thin Films are Electrocatalytically Competent for CO₂ Reduction. ACS Energy Letters, 2017, 2, 2394-2401.	17.4	157
51	Liquidâ€•Phase Epitaxially Grown Metalâ€“Organic Framework Thin Films for Efficient Tandem Catalysis Through Siteâ€•Isolation of Catalytic Centers. ChemPlusChem, 2016, 81, 708-713.	2.8	21
52	Proton Conducting Self-Assembled Metalâ€“Organic Framework/Polyelectrolyte Hollow Hybrid Nanostructures. ACS Applied Materials & Interfaces, 2016, 8, 23015-23021.	8.0	46
53	Achieving Low-Energy Driven Viologens-Based Electrochromic Devices Utilizing Polymeric Ionic Liquids. ACS Applied Materials & Interfaces, 2016, 8, 30351-30361.	8.0	97
54	Efficiency Enhancement of Hybrid Perovskite Solar Cells with MEH-PPV Hole-Transporting Layers. Scientific Reports, 2016, 6, 34319.	3.3	72

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55	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.	10.3	109
56	Inkjet-printed porphyrinic metalâ€"organic framework thin films for electrocatalysis. Journal of Materials Chemistry A, 2016, 4, 11094-11102.	10.3	73
57	Metalâ€"Organic Framework Colloids: Disassembly and Deaggregation. Langmuir, 2016, 32, 6123-6129.	3.5	17
58	Thermally Cured Dual Functional Viologen-Based All-in-One Electrochromic Devices with Panchromatic Modulation. ACS Applied Materials & Interfaces, 2016, 8, 4175-4184.	8.0	73
59	An electrochromic device based on Prussian blue, self-immobilized vinyl benzyl viologen, and ferrocene. Solar Energy Materials and Solar Cells, 2016, 147, 75-84.	6.2	78
60	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.	6.2	40
61	Planar Heterojunction Perovskite Solar Cells Incorporating Metalâ€"Organic Framework Nanocrystals. Advanced Materials, 2015, 27, 7229-7235.	21.0	134
62	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.	8.0	145
63	MOF Functionalization via Solvent-Assisted Ligand Incorporation: Phosphonates vs Carboxylates. Inorganic Chemistry, 2015, 54, 2185-2192.	4.0	177
64	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.	10.3	15
65	Porphyrin-based metalâ€"organic framework thin films for electrochemical nitrite detection. Electrochemistry Communications, 2015, 58, 51-56.	4.7	171
66	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.	7.8	61
67	Graphene Nanosheets/Poly(3,4-ethylenedioxythiophene) Nanotubes Composite Materials for Electrochemical Biosensing Applications. Electrochimica Acta, 2015, 172, 61-70.	5.2	17
68	A porous proton-relaying metal-organic framework material that accelerates electrochemical hydrogen evolution. Nature Communications, 2015, 6, 8304.	12.8	239
69	An all-organic solid-state electrochromic device containing poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 Td (fluor Cells, 2015, 143, 606-612.	6.2	31
70	Post metalation of solvothermally grown electroactive porphyrin metalâ€"organic framework thin films. Chemical Communications, 2015, 51, 2414-2417.	4.1	94
71	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.	8.1	22
72	Poly(3,4-ethylenedioxythiophene) (PEDOT) hollow microflowers and their application for nitrite sensing. Sensors and Actuators B: Chemical, 2014, 192, 762-768.	7.8	58

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73	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.	7.8	82
74	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.	10.3	106
75	Directed Growth of Electroactive Metalâ€Organic Framework Thin Films Using Electrophoretic Deposition. Advanced Materials, 2014, 26, 6295-6300.	21.0	265
76	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.	7.8	104
77	Metalâ€“Organic Framework Thin Films Composed of Free-Standing Acicular Nanorods Exhibiting Reversible Electrochromism. Chemistry of Materials, 2013, 25, 5012-5017.	6.7	242
78	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.	7.8	22
79	Plastic based dye-sensitized solar cells using Co9S8 acicular nanotube arrays as the counter electrode. Journal of Materials Chemistry A, 2013, 1, 13759.	10.3	44
80	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.	10.3	26
81	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.	5.4	21
82	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.	7.8	114
83	CoS Acicular Nanorod Arrays for the Counter Electrode of an Efficient Dye-Sensitized Solar Cell. ACS Nano, 2012, 6, 7016-7025.	14.6	333
84	A highly efficient dye-sensitized solar cell with a platinum nanoflowers counter electrode. Journal of Materials Chemistry, 2012, 22, 5550.	6.7	76
85	Synthesizing of a ZnO film with nanosheets structure on Ti foil for flexible dye-sensitized solar cells. , 2011, , .		0
86	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
87	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
88	Highly efficient dye-sensitized solar cell with a ZnO nanosheet-based photoanode. Energy and Environmental Science, 2011, 4, 3448.	30.8	196
89	Cobalt oxide acicular nanorods with high sensitivity for the non-enzymatic detection of glucose. Biosensors and Bioelectronics, 2011, 27, 125-131.	10.1	178
90	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