

Chung-Wei Kung

List of Publications by Year in descending order

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papers

6,403
citations

50276

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64796

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93
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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.	14.6	333
2	Directed Growth of Electroactive Metal-Organic Framework Thin Films Using Electrophoretic Deposition. Advanced Materials, 2014, 26, 6295-6300.	21.0	265
3	Harnessing MOF materials in photovoltaic devices: recent advances, challenges, and perspectives. Journal of Materials Chemistry A, 2019, 7, 17079-17095.	10.3	253
4	Metal-Organic Framework Thin Films Composed of Free-Standing Acicular Nanorods Exhibiting Reversible Electrochromism. Chemistry of Materials, 2013, 25, 5012-5017.	6.7	242
5	A porous proton-relaying metal-organic framework material that accelerates electrochemical hydrogen evolution. Nature Communications, 2015, 6, 8304.	12.8	239
6	Highly efficient dye-sensitized solar cell with a ZnO nanosheet-based photoanode. Energy and Environmental Science, 2011, 4, 3448.	30.8	196
7	Cobalt oxide acicular nanorods with high sensitivity for the non-enzymatic detection of glucose. Biosensors and Bioelectronics, 2011, 27, 125-131.	10.1	178
8	MOF Functionalization via Solvent-Assisted Ligand Incorporation: Phosphonates vs Carboxylates. Inorganic Chemistry, 2015, 54, 2185-2192.	4.0	177
9	Porphyrin-based metal-organic framework thin films for electrochemical nitrite detection. Electrochemistry Communications, 2015, 58, 51-56.	4.7	171
10	Increased Electrical Conductivity in a Mesoporous Metal-Organic Framework Featuring Metallacarboranes Guests. Journal of the American Chemical Society, 2018, 140, 3871-3875.	13.7	158
11	A porous, electrically conductive hexa-zirconium(μ_4) metal-organic framework. Chemical Science, 2018, 9, 4477-4482.	7.4	158
12	Copper Nanoparticles Installed in Metal-Organic Framework Thin Films are Electrocatalytically Competent for CO_2 Reduction. ACS Energy Letters, 2017, 2, 2394-2401.	17.4	157
13	Metal-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
14	Planar Heterojunction Perovskite Solar Cells Incorporating Metal-Organic Framework Nanocrystals. Advanced Materials, 2015, 27, 7229-7235.	21.0	134
15	Core-Shell Gold Nanorod@Zirconium-Based Metal-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
16	Synthesis of Co_3O_4 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
17	Fine-Tuning the Activity of Metal-Organic Framework-Supported Cobalt Catalysts for the Oxidative Dehydrogenation of Propane. Journal of the American Chemical Society, 2017, 139, 15251-15258.	13.7	112
18	In situ growth of porphyrinic metal-organic framework nanocrystals on graphene nanoribbons for the electrocatalytic oxidation of nitrite. Journal of Materials Chemistry A, 2016, 4, 10673-10682.	10.3	109

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19	Metal-organic framework/sulfonated polythiophene on carbon cloth as a flexible counter electrode for dye-sensitized solar cells. <i>Nano Energy</i> , 2017, 32, 19-27.	16.0	109
20	A high performance electrochemical sensor for acetaminophen based on a rGO@PEDOT nanotube composite modified electrode. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7229-7237.	10.3	106
21	Single layer of nickel hydroxide nanoparticles covered on a porous Ni foam and its application for highly sensitive non-enzymatic glucose sensor. <i>Sensors and Actuators B: Chemical</i> , 2014, 204, 159-166.	7.8	104
22	Stabilization of Formate Dehydrogenase in a Metal-Organic Framework for Bioelectrocatalytic Reduction of CO ₂ . <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7682-7686.	13.8	103
23	Metal-Organic Frameworks toward Electrochemical Sensors: Challenges and Opportunities. <i>Electroanalysis</i> , 2020, 32, 1885-1895.	2.9	103
24	Charge Transport in Zirconium-Based Metal-Organic Frameworks. <i>Accounts of Chemical Research</i> , 2020, 53, 1187-1195.	15.6	100
25	Achieving Low-Energy Driven Viologens-Based Electrochromic Devices Utilizing Polymeric Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30351-30361.	8.0	97
26	Enhanced Charge Collection in MOF@PEDOT Nanotube Composites Enable Highly Sensitive Biosensing. <i>Advanced Science</i> , 2017, 4, 1700261.	11.2	95
27	Post metalation of solvothermally grown electroactive porphyrin metal-organic framework thin films. <i>Chemical Communications</i> , 2015, 51, 2414-2417.	4.1	94
28	Redox-Mediator-Assisted Electrocatalytic Hydrogen Evolution from Water by a Molybdenum Sulfide-Functionalized Metal-Organic Framework. <i>ACS Catalysis</i> , 2018, 8, 9848-9858.	11.2	91
29	Impregnation of Graphene Quantum Dots into a Metal-Organic Framework to Render Increased Electrical Conductivity and Activity for Electrochemical Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35319-35326.	8.0	87
30	Fabrication of a ZnO film with a mosaic structure for a high efficient dye-sensitized solar cell. <i>Journal of Materials Chemistry</i> , 2010, 20, 9379.	6.7	85
31	Highly efficient plastic-based quasi-solid-state dye-sensitized solar cells with light-harvesting mesoporous silica nanoparticles gel-electrolyte. <i>Journal of Power Sources</i> , 2014, 245, 411-417.	7.8	82
32	Room Temperature Synthesis of an 8-Connected Zr-Based Metal-Organic Framework for Top-Down Nanoparticle Encapsulation. <i>Chemistry of Materials</i> , 2018, 30, 2193-2197.	6.7	80
33	An electrochromic device based on Prussian blue, self-immobilized vinyl benzyl viologen, and ferrocene. <i>Solar Energy Materials and Solar Cells</i> , 2016, 147, 75-84.	6.2	78
34	A highly efficient dye-sensitized solar cell with a platinum nanoflowers counter electrode. <i>Journal of Materials Chemistry</i> , 2012, 22, 5550.	6.7	76
35	Inkjet-printed porphyrinic metal-organic framework thin films for electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11094-11102.	10.3	73
36	Thermally Cured Dual Functional Viologen-Based All-in-One Electrochromic Devices with Panchromatic Modulation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4175-4184.	8.0	73

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37	Efficiency Enhancement of Hybrid Perovskite Solar Cells with MEH-PPV Hole-Transporting Layers. <i>Scientific Reports</i> , 2016, 6, 34319.	3.3	72
38	Anisotropic Redox Conductivity within a Metal-Organic Framework Material. <i>Journal of the American Chemical Society</i> , 2019, 141, 17696-17702.	13.7	71
39	Direct Imaging of Isolated Single-Molecule Magnets in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 2997-3005.	13.7	71
40	Improving the Efficiency of Mustard Gas Simulant Detoxification by Tuning the Singlet Oxygen Quantum Yield in Metal-Organic Frameworks and Their Corresponding Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23802-23806.	8.0	67
41	Electronically conductive metal-organic framework-based materials. <i>APL Materials</i> , 2019, 7, .	5.1	66
42	A gold surface plasmon enhanced mesoporous titanium dioxide photoelectrode for the plastic-based flexible dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 288, 221-228.	7.8	61
43	Poly(3,4-ethylenedioxythiophene) (PEDOT) hollow microflowers and their application for nitrite sensing. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 762-768.	7.8	58
44	Metal-Organic Frameworks Toward Electrocatalytic Applications. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2427.	2.5	55
45	Inorganic π -Conductive Glass-Approach to Rendering Mesoporous Metal-Organic Frameworks Electronically Conductive and Chemically Responsive. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30532-30540.	8.0	54
46	Pore-Confined Silver Nanoparticles in a Porphyrinic Metal-Organic Framework for Electrochemical Nitrite Detection. <i>ACS Applied Nano Materials</i> , 2020, 3, 9440-9448.	5.0	50
47	Cerium-Based Metal-Organic Framework Nanocrystals Interconnected by Carbon Nanotubes for Boosting Electrochemical Capacitor Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16418-16426.	8.0	50
48	Pore-Templated Growth of Catalytically Active Gold Nanoparticles within a Metal-Organic Framework. <i>Chemistry of Materials</i> , 2019, 31, 1485-1490.	6.7	47
49	Proton Conducting Self-Assembled Metal-Organic Framework/Polyelectrolyte Hollow Hybrid Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23015-23021.	8.0	46
50	Plastic based dye-sensitized solar cells using Co ₉ S ₈ acicular nanotube arrays as the counter electrode. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13759.	10.3	44
51	Epitaxial Growth of β -Cyclodextrin-Containing Metal-Organic Frameworks Based on a Host-Guest Strategy. <i>Journal of the American Chemical Society</i> , 2018, 140, 11402-11407.	13.7	44
52	An electrochromic device based on all-in-one polymer gel through in-situ thermal polymerization. <i>Solar Energy Materials and Solar Cells</i> , 2016, 145, 61-68.	6.2	40
53	Toward Metal-Organic Framework-Based Supercapacitors: Room-Temperature Synthesis of Electrically Conducting MOF-Based Nanocomposites Decorated with Redox-Active Manganese. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3036-3044.	2.0	35
54	Electrochemical Evolution of Pore-Confined Metallic Molybdenum in a Metal-Organic Framework (MOF) for All-MOF-Based Pseudocapacitors. <i>ACS Applied Energy Materials</i> , 2020, 3, 6258-6267.	5.1	33

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55	An all-organic solid-state electrochromic device containing poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (fluoride) Cells, 2015, 143, 606-612.	6.2	31
56	Electrodeposition of pore-confined cobalt in metal-organic framework thin films toward electrochemical H ₂ O ₂ detection. <i>Electrochimica Acta</i> , 2020, 347, 136276.	5.2	31
57	Group 4 Metal-Based Metal-Organic Frameworks for Chemical Sensors. <i>Chemosensors</i> , 2021, 9, 306.	3.6	29
58	Polyoxometalate adsorbed in a metal-organic framework for electrocatalytic dopamine oxidation. <i>Chemical Communications</i> , 2020, 56, 11763-11766.	4.1	28
59	3D Printing of Metal-Organic Framework-Based Ionogels: Wearable Sensors with Colorimetric and Mechanical Responses. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28247-28257.	8.0	28
60	Hollow microflower arrays of PEDOT and their application for the counter electrode of a dye-sensitized solar cell. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10693.	10.3	26
61	Electroactive Ferrocene at or near the Surface of Metal-Organic Framework UiO-66. <i>Langmuir</i> , 2018, 34, 4707-4714.	3.5	23
62	Proton-Conductive Cerium-Based Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55358-55366.	8.0	23
63	Synthesis of cobalt oxide thin films in the presence of various anions and their application for the detection of acetaminophen. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 429-438.	7.8	22
64	Electrochemical synthesis of a double-layer film of ZnO nanosheets/nanoparticles and its application for dye-sensitized solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2014, 22, 440-451.	8.1	22
65	Size-Tunable Synthesis of Palladium Nanoparticles Confined within Topologically Distinct Metal-Organic Frameworks for Catalytic Dehydrogenation of Methanol. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12521-12530.	3.1	22
66	Modification of glassy carbon electrode with a polymer/mediator composite and its application for the electrochemical detection of iodate. <i>Analytica Chimica Acta</i> , 2012, 737, 55-63.	5.4	21
67	Liquid-Phase Epitaxially Grown Metal-Organic Framework Thin Films for Efficient Tandem Catalysis Through Site-Isolation of Catalytic Centers. <i>ChemPlusChem</i> , 2016, 81, 708-713.	2.8	21
68	Zirconium-Based Metal-Organic Framework Nanocomposites Containing Dimensionally Distinct Nanocarbons for Pseudocapacitors. <i>ACS Applied Nano Materials</i> , 2020, 3, 1448-1456.	5.0	21
69	Selective Formation of Polyaniline Confined in the Nanopores of a Metal-Organic Framework for Supercapacitors. <i>Chemistry - A European Journal</i> , 2021, 27, 3560-3567.	3.3	21
70	Redox-Hopping and Electrochemical Behaviors of Metal-Organic Framework Thin Films Fabricated by Various Approaches. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20854-20863.	3.1	18
71	Ce-MOF derived ceria: Insights into the Na-ion storage mechanism as a high-rate performance anode material. <i>Applied Materials Today</i> , 2021, 22, 100935.	4.3	18
72	Graphene Nanosheets/Poly(3,4-ethylenedioxythiophene) Nanotubes Composite Materials for Electrochemical Biosensing Applications. <i>Electrochimica Acta</i> , 2015, 172, 61-70.	5.2	17

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73	Metal-Organic Framework Colloids: Disassembly and Deaggregation. Langmuir, 2016, 32, 6123-6129.	3.5	17
74	Synthesis of Co ₃ O ₄ thin films by chemical bath deposition in the presence of different anions and application to H ₂ O ₂ sensing. Procedia Engineering, 2011, 25, 847-850.	1.2	16
75	Nickel-Carbon-Zirconium Material Derived from Nickel-Oxide Clusters Installed in a Metal-Organic Framework Scaffold by Atomic Layer Deposition. Langmuir, 2018, 34, 14143-14150.	3.5	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.	10.3	15
77	An iridium-decorated metal-organic framework for electrocatalytic oxidation of nitrite. Electrochemistry Communications, 2021, 122, 106899.	4.7	13
78	Transport Diffusion of Linear Alkanes (C ₅ -C ₁₆) through Thin Films of ZIF-8 as Assessed by Quartz Crystal Microgravimetry. Langmuir, 2021, 37, 9405-9414.	3.5	9
79	Cerium-based metal-organic framework as an electrocatalyst for the reductive detection of dopamine. Electrochemistry Communications, 2022, 135, 107206.	4.7	7
80	A Single Potassium-Ion Conducting Metal-Organic Framework. ACS Applied Energy Materials, 2022, 5, 8573-8580.	5.1	6
81	Probing the electronic and ionic transport in topologically distinct redox-active metal-organic frameworks in aqueous electrolytes. Physical Chemistry Chemical Physics, 2022, 24, 9855-9865.	2.8	5
82	Iridium-Functionalized Metal-Organic Framework Nanocrystals Interconnected by Carbon Nanotubes Competent for Electrocatalytic Water Oxidation. ChemCatChem, 2022, 14, .	3.7	5
83	Metal-organic framework functionalized poly-cyclodextrin membranes confining polyaniline for charge storage. Chemical Communications, 2022, 58, 6590-6593.	4.1	4
84	Probing Local Donor-Acceptor Charge Transfer in a Metal-Organic Framework Via a Scanning Tunneling Microscope. Journal of Physical Chemistry C, 2020, 124, 21635-21640.	3.1	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 metal-organic framework crystals interconnected by carbon nanotubes as negative electrodes for supercapacitors. MRS Energy & Sustainability, 2022, 9, 332-341.	3.0	1
87	Pore-confined cobalt sulphide nanoparticles in a metal-organic framework as a catalyst for the colorimetric detection of hydrogen peroxide. Materials Advances, 2022, 3, 6364-6372.	5.4	1
88	Synthesizing of a ZnO film with nanosheets structure on Ti foil for flexible dye-sensitized solar cells. , 2011, , .		0
89	Toward Metal-Organic-Framework-Based Supercapacitors: Room-Temperature Synthesis of Electrically Conducting MOF-Based Nanocomposites Decorated with Redox-Active Manganese. European Journal of Inorganic Chemistry, 2019, 2019, 3034-3034.	2.0	0
90	Front Cover: Iridium-Functionalized Metal-Organic Framework Nanocrystals Interconnected by Carbon Nanotubes Competent for Electrocatalytic Water Oxidation (ChemCatChem 15/2022). ChemCatChem, 2022, 14, .	3.7	0