

Chung-Wei Kung

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

4,796
citations

43
h-index

68
g-index

93
ext. papers

5,564
ext. citations

9.3
avg. IF

5.88
L-index

#	Paper	IF	Citations
81	CoS acicular nanorod arrays for the counter electrode of an efficient dye-sensitized solar cell. <i>ACS Nano</i> , 2012 , 6, 7016-25	16.7	315
80	Directed growth of electroactive metal-organic framework thin films using electrophoretic deposition. <i>Advanced Materials</i> , 2014 , 26, 6295-300	24	219
79	A porous proton-relaying metal-organic framework material that accelerates electrochemical hydrogen evolution. <i>Nature Communications</i> , 2015 , 6, 8304	17.4	194
78	Metal-Organic Framework Thin Films Composed of Free-Standing Acicular Nanorods Exhibiting Reversible Electrochromism. <i>Chemistry of Materials</i> , 2013 , 25, 5012-5017	9.6	194
77	Harnessing MOF materials in photovoltaic devices: recent advances, challenges, and perspectives. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17079-17095	13	182
76	Highly efficient dye-sensitized solar cell with a ZnO nanosheet-based photoanode. <i>Energy and Environmental Science</i> , 2011 , 4, 3448	35.4	171
75	Cobalt oxide acicular nanorods with high sensitivity for the non-enzymatic detection of glucose. <i>Biosensors and Bioelectronics</i> , 2011 , 27, 125-31	11.8	167
74	MOF functionalization via solvent-assisted ligand incorporation: phosphonates vs carboxylates. <i>Inorganic Chemistry</i> , 2015 , 54, 2185-92	5.1	140
73	Porphyrin-based metal-organic framework thin films for electrochemical nitrite detection. <i>Electrochemistry Communications</i> , 2015 , 58, 51-56	5.1	138
72	Metal-Organic Framework Thin Films as Platforms for Atomic Layer Deposition of Cobalt Ions To Enable Electrocatalytic Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28223-30	9.5	126
71	A porous, electrically conductive hexa-zirconium(iv) metal-organic framework. <i>Chemical Science</i> , 2018 , 9, 4477-4482	9.4	118
70	Increased Electrical Conductivity in a Mesoporous Metal-Organic Framework Featuring Metallacarboranes Guests. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3871-3875	16.4	117
69	Copper Nanoparticles Installed in Metal-Organic Framework Thin Films are Electrocatalytically Competent for CO ₂ Reduction. <i>ACS Energy Letters</i> , 2017 , 2, 2394-2401	20.1	112
68	Planar Heterojunction Perovskite Solar Cells Incorporating Metal-Organic Framework Nanocrystals. <i>Advanced Materials</i> , 2015 , 27, 7229-35	24	105
67	Synthesis of Co ₃ O ₄ nanosheets via electrodeposition followed by ozone treatment and their application to high-performance supercapacitors. <i>Journal of Power Sources</i> , 2012 , 214, 91-99	8.9	102
66	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	17.1	90
65	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	8.5	87

64	Fine-Tuning the Activity of Metal-Organic Framework-Supported Cobalt Catalysts for the Oxidative Dehydrogenation of Propane. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15251-15258	16.4	86
63	In situ growth of porphyrinic metal-organic framework nanocrystals on graphene nanoribbons for the electrocatalytic oxidation of nitrite. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10673-10682	13	85
62	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		83
61	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	13	82
60	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	8.9	76
59	Post metalation of solvothermally grown electroactive porphyrin metal-organic framework thin films. <i>Chemical Communications</i> , 2015 , 51, 2414-7	5.8	75
58	Core-Shell Gold Nanorod@Zirconium-Based Metal-Organic Framework Composites as in Situ Size-Selective Raman Probes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3893-3900	16.4	73
57	Redox-Mediator-Assisted Electrocatalytic Hydrogen Evolution from Water by a Molybdenum Sulfide-Functionalized Metal-Organic Framework. <i>ACS Catalysis</i> , 2018 , 8, 9848-9858	13.1	73
56	A highly efficient dye-sensitized solar cell with a platinum nanoflowers counter electrode. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5550		72
55	Achieving Low-Energy Driven Viologens-Based Electrochromic Devices Utilizing Polymeric Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30351-30361	9.5	70
54	Efficiency Enhancement of Hybrid Perovskite Solar Cells with MEH-PPV Hole-Transporting Layers. <i>Scientific Reports</i> , 2016 , 6, 34319	4.9	63
53	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	9.6	59
52	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	6.4	59
51	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	8.9	58
50	Stabilization of Formate Dehydrogenase in a Metal-Organic Framework for Bioelectrocatalytic Reduction of CO. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7682-7686	16.4	57
49	Enhanced Charge Collection in MOF-525-PEDOT Nanotube Composites Enable Highly Sensitive Biosensing. <i>Advanced Science</i> , 2017 , 4, 1700261	13.6	52
48	Thermally Cured Dual Functional Viologen-Based All-in-One Electrochromic Devices with Panchromatic Modulation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4175-84	9.5	51
47	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	9.5	51

46	Inkjet-printed porphyrinic metal-organic framework thin films for electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11094-11102	13	50
45	Direct Imaging of Isolated Single-Molecule Magnets in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2997-3005	16.4	48
44	Charge Transport in Zirconium-Based Metal-Organic Frameworks. <i>Accounts of Chemical Research</i> , 2020 , 53, 1187-1195	24.3	47
43	Metal-Organic Frameworks toward Electrochemical Sensors: Challenges and Opportunities. <i>Electroanalysis</i> , 2020 , 32, 1885-1895	3	47
42	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	9.5	46
41	Poly(3,4-ethylenedioxythiophene) (PEDOT) hollow microflowers and their application for nitrite sensing. <i>Sensors and Actuators B: Chemical</i> , 2014 , 192, 762-768	8.5	44
40	Plastic based dye-sensitized solar cells using Co9S8 acicular nanotube arrays as the counter electrode. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13759	13	43
39	Electronically conductive metal-organic framework-based materials. <i>APL Materials</i> , 2019 , 7, 110902	5.7	43
38	Anisotropic Redox Conductivity within a Metal-Organic Framework Material. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17696-17702	16.4	42
37	Inorganic "Conductive Glass" Approach to Rendering Mesoporous Metal-Organic Frameworks Electronically Conductive and Chemically Responsive. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30532-30540	9.5	38
36	Metal-Organic Frameworks Toward Electrocatalytic Applications. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2427	2.6	36
35	Proton Conducting Self-Assembled Metal-Organic Framework/Polyelectrolyte Hollow Hybrid Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23015-21	9.5	34
34	Pore-Templated Growth of Catalytically Active Gold Nanoparticles within a Metal-Organic Framework. <i>Chemistry of Materials</i> , 2019 , 31, 1485-1490	9.6	34
33	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	6.4	27
32	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	16.4	27
31	An all-organic solid-state electrochromic device containing poly(vinylidene fluoride-co-hexafluoropropylene), succinonitrile, and ionic liquid. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 143, 606-612	6.4	24
30	Pore-Confined Silver Nanoparticles in a Porphyrinic Metal-Organic Framework for Electrochemical Nitrite Detection. <i>ACS Applied Nano Materials</i> , 2020 , 3, 9440-9448	5.6	24
29	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	2.3	23

28	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	13	23
27	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	6.6	21
26	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	6.7	20
25	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	6.8	20
24	Electroactive Ferrocene at or near the Surface of Metal-Organic Framework UiO-66. <i>Langmuir</i> , 2018 , 34, 4707-4714	4	19
23	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	19
22	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	8.5	18
21	Graphene Nanosheets/Poly(3,4-ethylenedioxythiophene) Nanotubes Composite Materials for Electrochemical Biosensing Applications. <i>Electrochimica Acta</i> , 2015 , 172, 61-70	6.7	17
20	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	6.1	16
19	Low-temperature and template-free fabrication of cobalt oxide acicular nanotube arrays and their applications in supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4042-4048	13	14
18	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	9.5	14
17	Metal-Organic Framework Colloids: Disassembly and Deaggregation. <i>Langmuir</i> , 2016 , 32, 6123-9	4	13
16	Polyoxometalate adsorbed in a metal-organic framework for electrocatalytic dopamine oxidation. <i>Chemical Communications</i> , 2020 , 56, 11763-11766	5.8	12
15	Nickel-Carbon-Zirconium Material Derived from Nickel-Oxide Clusters Installed in a Metal-Organic Framework Scaffold by Atomic Layer Deposition. <i>Langmuir</i> , 2018 , 34, 14143-14150	4	12
14	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	3.8	11
13	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. <i>Procedia Engineering</i> , 2011 , 25, 847-850		11
12	Zirconium-Based Metal-Organic Framework Nanocomposites Containing Dimensionally Distinct Nanocarbons for Pseudocapacitors. <i>ACS Applied Nano Materials</i> , 2020 , 3, 1448-1456	5.6	10
11	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	4.8	10

10	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	3.8	7
9	Group 4 Metal-Based Metal-Organic Frameworks for Chemical Sensors. <i>Chemosensors</i> , 2021 , 9, 306	4	5
8	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	6.6	5
7	An iridium-decorated metal-organic framework for electrocatalytic oxidation of nitrite. <i>Electrochemistry Communications</i> , 2021 , 122, 106899	5.1	5
6	Probing Local Donor-Acceptor Charge Transfer in a Metal-Organic Framework Via a Scanning Tunneling Microscope. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21635-21640	3.8	3
5	Transport Diffusion of Linear Alkanes (C-C) through Thin Films of ZIF-8 as Assessed by Quartz Crystal Microgravimetry. <i>Langmuir</i> , 2021 , 37, 9405-9414	4	2
4	Fabrication of a Polymer/Mediator Composite Modified Electrode and its Application to Electrochemical Detection of Iodate. <i>Procedia Engineering</i> , 2011 , 25, 1453-1456		1
3	Proton-Conductive Cerium-Based Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 55358-55366	9.5	1
2	Cerium-based metal-organic framework as an electrocatalyst for the reductive detection of dopamine. <i>Electrochemistry Communications</i> , 2022 , 135, 107206	5.1	1
1	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, 3034-3034	2.3	