Masaaki Sadakiyo

List of Publications by Year
in descending order

55 papers	4,660 citations	236833 25 h-index	175177 52 g-index
59 all docs	59 docs citations	59 times ranked	5579 citing authors

#	Article	IF	Citations
1	Support effects of metalâ€“organic frameworks in heterogeneous catalysis. Nanoscale, 2022, 14, 3398-3406.	2.8	33
2	Super Mg²⁺ Conductivity around 10^{â€“3} S cm^{â€“1} Observed in a Porous Metalâ€“Organic Framework. Journal of the American Chemical Society, 2022, 144, 8669-8675.	6.6	17
3	Development of energy-related functions of metalâ€“organic frameworks and metal/MOF composites. Bulletin of Japan Society of Coordination Chemistry, 2022, 79, 88-99.	0.1	0
4	Support Effect of Metalâ€“Organic Frameworks on Ethanol Production through Acetic Acid Hydrogenation. ACS Applied Materials & Interfaces, 2021, 13, 19992-20001.	4.0	12
5	Vapor-Induced Superionic Conduction of Magnesium Ions in a Metalâ€“Organic Framework. Journal of Physical Chemistry C, 2021, 125, 21124-21130.	1.5	8
6	Synthesis of a porous MOF, UiO-67-NSO2CF3, through post-synthetic method. Inorganic Chemistry Communication, 2021, 131, 108794.	1.8	1
7	Ion-conductive metalâ€“organic frameworks. Dalton Transactions, 2021, 50, 5385-5397.	1.6	33
8	Flexibility Control of Twoâ€Dimensional Coordination Polymers by Crystal Morphology: Water Adsorption and Thermal Expansion. Chemistry - A European Journal, 2021, 27, 18135-18140.	1.7	8
9	(Invited) Ion-Conductive Metal-Organic Frameworks. ECS Meeting Abstracts, 2020, MA2020-02, 2009-2009.	0.0	0
10	Alcoholic Compounds as an Efficient Energy Carrier. Nanostructure Science and Technology, 2019, , 387-417.	0.1	1
11	Consecutive oxidative additions of iodine on undulating 2D coordination polymers: formation of Iâ€“Ptâ€“I chains and inhomogeneous layers. Dalton Transactions, 2019, 48, 7198-7202.	1.6	7
12	Proton transfer in hydrogen-bonded degenerate systems of water and ammonia in metalâ€“organic frameworks. Chemical Science, 2019, 10, 16-33.	3.7	224
13	Impact of Ir-Valence Control and Surface Nanostructure on Oxygen Evolution Reaction over a Highly Efficient Irâ€“TiO₂ Nanorod Catalyst. ACS Catalysis, 2019, 9, 6974-6986.	5.5	90
14	Electrochemical hydrogenation of non-aromatic carboxylic acid derivatives as a sustainable synthesis process: from catalyst design to device construction. Physical Chemistry Chemical Physics, 2019, 21, 5882-5889.	1.3	27
15	Tailoring widely used ammonia synthesis catalysts for H and N poisoning resistance. Physical Chemistry Chemical Physics, 2019, 21, 5117-5122.	1.3	13
16	Catalytic enhancement on Tiâ€“Zr complex oxide particles for electrochemical hydrogenation of oxalic acid to produce an alcoholic compound by controlling electronic states and oxide structures. Catalysis Science and Technology, 2019, 9, 6561-6565.	2.1	18
17	Design of Shapeâ€Palladium Nanoparticles Anchored on Titanium(IV) Metalâ€Organic Framework: Highly Active Catalysts for Reduction of p â€Nitrophenol in Water. ChemistrySelect, 2018, 3, 7934-7939.	0.7	9
18	Modulation of the catalytic activity of Pt nanoparticles through charge-transfer interactions with metalâ€“organic frameworks. Chemical Communications, 2017, 53, 6720-6723.	2.2	50

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19	Introduction of an Amino Group on Zeolitic Imidazolate Framework through a Ligand-exchange Reaction. Chemistry Letters, 2017, 46, 1004-1006.	0.7	2
20	Alkoxo- and carboxylato-bridged hexanuclear copper(II) complex: Synthesis, structure and magnetic properties. Inorganic Chemistry Communication, 2017, 83, 49-51.	1.8	15
21	1D cerium(III) coordination polymer with pivalate bridges: Synthesis, structure and magnetic properties. Journal of Molecular Structure, 2017, 1141, 170-175.	1.8	9
22	Effects of the structure of the Rh3+ modifier on photocatalytic performances of an Rh3+/TiO2 photocatalyst under irradiation of visible light. Applied Catalysis B: Environmental, 2017, 205, 340-346.	10.8	8
23	Electroreduction of Carbon Dioxide to Hydrocarbons Using Bimetallic Cuâ€“Pd Catalysts with Different Mixing Patterns. Journal of the American Chemical Society, 2017, 139, 47-50.	6.6	632
24	Biochemical Evaluation of Copper Compounds Derived from O- and N-/O- Donor Ligands. Pharmaceutical Chemistry Journal, 2017, 51, 272-276.	0.3	2
25	High-pressure zinc oxide phase as visible-light-active photocatalyst with narrow band gap. Journal of Materials Chemistry A, 2017, 5, 20298-20303.	5.2	101
26	An azide-bridged copper(II) 1D-chain with ferromagnetic interactions: synthesis, structure and magnetic studies. Transition Metal Chemistry, 2017, 42, 635-641.	0.7	7
27	Direct Power Charge and Discharge Using the Glycolic Acid/Oxalic Acid Redox Couple toward Carbon-Neutral Energy Circulation. ECS Transactions, 2017, 75, 17-21.	0.3	1
28	Electrochemical Production of Glycolic Acid from Oxalic Acid Using a Polymer Electrolyte Alcohol Electrosynthesis Cell Containing a Porous TiO2 Catalyst. Scientific Reports, 2017, 7, 17032.	1.6	34
29	A study on proton conduction in a layered metalâ€“organic framework, Rb 2 (adp)[Zn 2 (ox) 3]Â·3H 2 O (adp = adipic acid, ox 2â˜ = oxalate). Inorganic Chemistry Communication, 2016, 72, 138-140.	1.8	18
30	Proton-Conductive Metalâ€“Organic Frameworks. Bulletin of the Chemical Society of Japan, 2016, 89, 1-10.	2.0	101
31	Hydrated Protonâ€Conductive Metalâ€“Organic Frameworks. ChemPlusChem, 2016, 81, 691-701.	1.3	108
32	Superionic Conduction in Coâ€Vacant P2â€Na_{<i>x</i>}CoO₂ Created by Hydrogen Reductive Elimination. Chemistry - an Asian Journal, 2016, 11, 1537-1541.	1.7	3
33	Hydrogenation of oxalic acid using light-assisted water electrolysis for the production of an alcoholic compound. Green Chemistry, 2016, 18, 3700-3706.	4.6	26
34	A new approach for the facile preparation of metalâ€“organic framework composites directly contacting with metal nanoparticles through arc plasma deposition. Chemical Communications, 2016, 52, 8385-8388.	2.2	24
35	A significant change in selective adsorption behaviour for ethanol by flexibility control through the type of central metals in a metalâ€“organic framework. Chemical Science, 2016, 7, 1349-1356.	3.7	44
36	One-step electrosynthesis of ethylene and ethanol from CO2 in an alkaline electrolyzer. Journal of Power Sources, 2016, 301, 219-228.	4.0	399

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37	Poly[tris{Î¼-2-[(dimethylamino)methyl]imidazolato-Îº3 N 1,N 2:N 3}(nitrato-ÎºO)dizinc(II)]. IUCrData, 2016, 1, .	0.1	2
38	Poly[butane-1,4-diammonium [tri-Î¼-oxalato-dimanganese(II)] hexahydrate]. IUCrData, 2016, 1, .	0.1	1
39	Preparation of solidâ€"solution type Feâ€"Co nanoalloys by synchronous deposition of Fe and Co using dual arc plasma guns. Dalton Transactions, 2015, 44, 15764-15768.	1.6	16
40	Atomically mixed Fe-group nanoalloys: catalyst design for the selective electrooxidation of ethylene glycol to oxalic acid. Physical Chemistry Chemical Physics, 2015, 17, 11359-11366.	1.3	23
41	CO₂-free electric power circulation via direct charge and discharge using the glycolic acid/oxalic acid redox couple. Energy and Environmental Science, 2015, 8, 1456-1462.	15.6	40
42	Proton Conduction Study on Water Confined in Channel or Layer Networks of La^{III}M^{III}(ox)₃Â·10H₂O (M = Cr, Co, Ru, La). Inorganic Chemistry, 2015, 54, 8529-8535.	1.9	44
43	Control of Crystalline Proton-Conducting Pathways by Water-Induced Transformations of Hydrogen-Bonding Networks in a Metalâ€"Organic Framework. Journal of the American Chemical Society, 2014, 136, 7701-7707.	6.6	226
44	Design and Synthesis of Hydroxide Ionâ€"Conductive Metalâ€"Organic Frameworks Based on Salt Inclusion. Journal of the American Chemical Society, 2014, 136, 1702-1705.	6.6	124
45	Proton dynamics of two-dimensional oxalate-bridged coordination polymers. Physical Chemistry Chemical Physics, 2014, 16, 17295-17304.	1.3	36
46	Synthesis and catalytic application of PVP-coated Ru nanoparticles embedded in a porous metalâ€"organic framework. Dalton Transactions, 2014, 43, 11295-11298.	1.6	21
47	Proton Conductivity Control by Ion Substitution in a Highly Proton-Conductive Metalâ€"Organic Framework. Journal of the American Chemical Society, 2014, 136, 13166-13169.	6.6	204
48	CO2-Free Power Generation on an Iron Group Nanoalloy Catalyst via Selective Oxidation of Ethylene Glycol to Oxalic Acid in Alkaline Media. Scientific Reports, 2014, 4, 5620.	1.6	36
49	Proton-Conductive Magnetic Metalâ€"Organic Frameworks, {NR₃(CH₂COOH)}[M_a^{II}M_b^{III}(ox)₃]: Effect of Carboxyl Residue upon Proton Conduction. Journal of the American Chemical Society, 2013, 135, 2256-2262.	6.6	205
50	Promotion of Low-Humidity Proton Conduction by Controlling Hydrophilicity in Layered Metalâ€"Organic Frameworks. Journal of the American Chemical Society, 2012, 134, 5472-5475.	6.6	303
51	Hydroxyl Group Recognition by Hydrogen-Bonding Donor and Acceptor Sites Embedded in a Layered Metalâ€"Organic Framework. Journal of the American Chemical Society, 2011, 133, 11050-11053.	6.6	90
52	Rational Designs for Highly Proton-Conductive Metalâˆ'Organic Frameworks. Journal of the American Chemical Society, 2009, 131, 9906-9907.	6.6	637
53	High Proton Conductivity of One-Dimensional Ferrous Oxalate Dihydrate. Journal of the American Chemical Society, 2009, 131, 3144-3145.	6.6	325
54	Oxalate-Bridged Bimetallic Complexes {NH(prol)₃}[MCr(ox)₃] (M =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 72 Journal of the American Chemical Society, 2009, 131, 13516-13522.	6.6	240

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55	Development of Nanoalloy Catalysts for Realization of Carbon-Neutral Energy Cycles. Materials Science Forum, 0, 783-786, 2046-2050.	0.3	1