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	Rational Designs for Highly Proton-Conductive Metalâˆ’Organic Frameworks. Journal of the American Chemical Society, 2009, 131, 9906-9907.	6.6	637
2	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
3	One-step electrosynthesis of ethylene and ethanol from CO2 in an alkaline electrolyzer. Journal of Power Sources, 2016, 301, 219-228.	4.0	399
4	High Proton Conductivity of One-Dimensional Ferrous Oxalate Dihydrate. Journal of the American Chemical Society, 2009, 131, 3144-3145.	6.6	325
5	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
6	Oxalate-Bridged Bimetallic Complexes {NH(prol)₃}[MCr(ox)₃] (M =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 55 Journal of the American Chemical Society, 2009, 131, 13516-13522.	6.6	240
7	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
8	Proton transfer in hydrogen-bonded degenerate systems of water and ammonia in metalâ€“organic frameworks. Chemical Science, 2019, 10, 16-33.	3.7	224
9	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
10	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
11	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
12	Hydrated Protonâ€Conductive Metalâ€“Organic Frameworks. ChemPlusChem, 2016, 81, 691-701.	1.3	108
13	Proton-Conductive Metalâ€“Organic Frameworks. Bulletin of the Chemical Society of Japan, 2016, 89, 1-10.	2.0	101
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	Proton dynamics of two-dimensional oxalate-bridged coordination polymers. Physical Chemistry Chemical Physics, 2014, 16, 17295-17304.	1.3	36
22	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
23	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
24	Ion-conductive metalâ€“organic frameworks. Dalton Transactions, 2021, 50, 5385-5397.	1.6	33
25	Support effects of metalâ€“organic frameworks in heterogeneous catalysis. Nanoscale, 2022, 14, 3398-3406.	2.8	33
26	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
27	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
28	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
29	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
30	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
31	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 2âˆ’ = oxalate). Inorganic Chemistry Communication, 2016, 72, 138-140.	1.8	18
32	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
33	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
34	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
35	Alkoxo- and carboxylato-bridged hexanuclear copper(II) complex: Synthesis, structure and magnetic properties. Inorganic Chemistry Communication, 2017, 83, 49-51.	1.8	15
36	Tailoring widely used ammonia synthesis catalysts for H and N poisoning resistance. Physical Chemistry Chemical Physics, 2019, 21, 5117-5122.	1.3	13

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37	Support Effect of Metalâ€“Organic Frameworks on Ethanol Production through Acetic Acid Hydrogenation. ACS Applied Materials & Interfaces, 2021, 13, 19992-20001.	4.0	12
38	1D cerium(III) coordination polymer with pivalate bridges: Synthesis, structure and magnetic properties. Journal of Molecular Structure, 2017, 1141, 170-175.	1.8	9
39	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
40	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
41	Vapor-Induced Superionic Conduction of Magnesium Ions in a Metalâ€“Organic Framework. Journal of Physical Chemistry C, 2021, 125, 21124-21130.	1.5	8
42	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
43	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
44	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
45	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
46	Introduction of an Amino Group on Zeolitic Imidazolate Framework through a Ligand-exchange Reaction. Chemistry Letters, 2017, 46, 1004-1006.	0.7	2
47	Biochemical Evaluation of Copper Compounds Derived from O- and N-/O- Donor Ligands. Pharmaceutical Chemistry Journal, 2017, 51, 272-276.	0.3	2
48	Poly[tris{Î¼-2-[(dimethylamino)methyl]imidazolato-Îº3 N 1,N 2:N 3}(nitrato-ÎºO)dizinc(II)]. IUCrData, 2016, 1, .	0.1	2
49	Development of Nanoalloy Catalysts for Realization of Carbon-Neutral Energy Cycles. Materials Science Forum, 0, 783-786, 2046-2050.	0.3	1
50	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
51	Alcoholic Compounds as an Efficient Energy Carrier. Nanostructure Science and Technology, 2019, , 387-417.	0.1	1
52	Synthesis of a porous MOF, UiO-67-NSO2CF3, through post-synthetic method. Inorganic Chemistry Communication, 2021, 131, 108794.	1.8	1
53	Poly[butane-1,4-diammonium [tri-Î¼-oxalato-dimanganese(II)] hexahydrate]. IUCrData, 2016, 1, .	0.1	1
54	(Invited) Ion-Conductive Metal-Organic Frameworks. ECS Meeting Abstracts, 2020, MA2020-02, 2009-2009.	0.0	0

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55	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