

Catherine M Aitchison

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,568
citations

567281

15
h-index

713466

21
g-index

22
all docs

22
docs citations

22
times ranked

1965
citing authors

#	ARTICLE	IF	CITATIONS
1	A mobile robotic chemist. <i>Nature</i> , 2020, 583, 237-241.	27.8	645
2	Photocatalytic Hydrogen Evolution from Water Using Fluorene and Dibenzothiophene Sulfone-Conjugated Microporous and Linear Polymers. <i>Chemistry of Materials</i> , 2019, 31, 305-313.	6.7	173
3	Tracking Charge Transfer to Residual Metal Clusters in Conjugated Polymers for Photocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2020, 142, 14574-14587.	13.7	118
4	Maximising the hydrogen evolution activity in organic photocatalysts by co-polymerisation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11994-12003.	10.3	93
5	Emulsion polymerization derived organic photocatalysts for improved light-driven hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2490-2496.	10.3	84
6	Reprogramming bacterial protein organelles as a nanoreactor for hydrogen production. <i>Nature Communications</i> , 2020, 11, 5448.	12.8	69
7	Subcomponent Exchange Transforms an Fe ^{II} L ₄ Cage from High- to Low-Spin, Switching Guest Release in a Two-Cage System. <i>Journal of the American Chemical Society</i> , 2017, 139, 6294-6297.	13.7	64
8	Water Oxidation with Cobalt-Loaded Linear Conjugated Polymer Photocatalysts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18695-18700.	13.8	55
9	Photocatalyst Z-scheme system composed of a linear conjugated polymer and BiVO ₄ for overall water splitting under visible light. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16283-16290.	10.3	52
10	Hydrogen evolution from water using heteroatom substituted fluorene conjugated co-polymers. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8700-8705.	10.3	47
11	Photocatalytic proton reduction by a computationally identified, molecular hydrogen-bonded framework. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7158-7170.	10.3	45
12	Structure-activity relationships in well-defined conjugated oligomer photocatalysts for hydrogen production from water. <i>Chemical Science</i> , 2020, 11, 8744-8756.	7.4	41
13	Conjugated nanomaterials for solar fuel production. <i>Nanoscale</i> , 2021, 13, 634-646.	5.6	21
14	Orthogonal Stimuli Trigger Self-Assembly and Phase Transfer of Fe ₄ L ₄ Cages and Cargoes. <i>Journal of the American Chemical Society</i> , 2018, 140, 16952-16956.	13.7	18
15	Water Oxidation with Cobalt-Loaded Linear Conjugated Polymer Photocatalysts. <i>Angewandte Chemie</i> , 2020, 132, 18854-18859.	2.0	16
16	Aromatic polymers made by reductive polydehalogenation of oligocyclic monomers as conjugated polymers of intrinsic microporosity (C-PIMs). <i>Polymer Chemistry</i> , 2019, 10, 5200-5205.	3.9	7
17	Synthetic approaches to artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019, 215, 242-281.	3.2	5
18	Impact of Chemical Structure on the Dynamics of Mass Transfer of Water in Conjugated Microporous Polymers: A Neutron Spectroscopy Study. <i>ACS Applied Polymer Materials</i> , 2021, 3, 765-776.	4.4	5

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19	Probing Dynamics of Water Mass Transfer in Organic Porous Photocatalyst Water-Splitting Materials by Neutron Spectroscopy. <i>Chemistry of Materials</i> , 2021, 33, 1363-1372.	6.7	5
20	Demonstrator devices for artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019, 215, 345-363.	3.2	2