

Po-Wen Chung

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

2,015
citations

361413

20
h-index

395702

33
g-index

38
all docs

38
docs citations

38
times ranked

3058
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-free four-in-one modification of g-C ₃ N ₄ for superior photocatalytic CO ₂ reduction and H ₂ evolution. <i>Chemical Engineering Journal</i> , 2022, 430, 132853.	12.7	44
2	Boosting photocatalytic CO ₂ reduction in a ZnS/ZnIn ₂ S ₄ heterostructure through strain-induced direct Z-scheme and a mechanistic study of molecular CO ₂ interaction thereon. <i>Nano Energy</i> , 2022, 93, 106809.	16.0	110
3	Chromatic Fulleropyrrolidine as Long-Lived Metal-Free Catalyst for CO ₂ Photoreduction Reaction. <i>ChemSusChem</i> , 2022, 15, .	6.8	4
4	Photocatalytic CO ₂ reduction for C ₂ -C ₃ oxy-compounds on ZIF-67 derived carbon with TiO ₂ . <i>Journal of CO₂ Utilization</i> , 2022, 58, 101920.	6.8	8
5	Connecting Molecular and Supramolecular Shapeshifting by the Ostwald's Nucleation Stages of a Star Giant Molecule. <i>Journal of the American Chemical Society</i> , 2022, , .	13.7	0
6	Silica-Supported Nanoscale Hydrotalcite-Derived Oxides for C ₄ Chemicals from Ethanol Condensation. <i>ACS Applied Nano Materials</i> , 2022, 5, 7885-7895.	5.0	3
7	Solution-Processable Naphthalene Diimide-Based Conjugated Polymers as Organocatalysts for Photocatalytic CO ₂ Reaction with Extremely Stable Catalytic Activity for Over 330 Hours. <i>Chemistry of Materials</i> , 2022, 34, 4955-4963.	6.7	8
8	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. <i>Angewandte Chemie</i> , 2021, 133, 19293-19303.	2.0	6
9	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19144-19154.	13.8	11
10	Frontispiece: Materials Engineering of Violin Soundboards by Stradivari and Guarneri. <i>Angewandte Chemie - International Edition</i> , 2021, 60, .	13.8	0
11	Frontispiz: Materials Engineering of Violin Soundboards by Stradivari and Guarneri. <i>Angewandte Chemie</i> , 2021, 133, .	2.0	0
12	The oversolubility of methane gas in nano-confined water in nanoporous silica materials. <i>Microporous and Mesoporous Materials</i> , 2020, 293, 109793.	4.4	15
13	Understanding catalytic hydrogenolysis of 5-hydroxymethylfurfural (HMF) to 2,5-dimethylfuran (DMF) using carbon supported Ru catalysts. <i>Fuel Processing Technology</i> , 2020, 199, 106225.	7.2	40
14	Hydrophobic Copper Catalysts Derived from Copper Phyllosilicates in the Hydrogenation of Levulinic Acid to β -Valerolactone. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54851-54861.	8.0	20
15	KSCN-induced Interfacial Dipole in Black TiO ₂ for Enhanced Photocatalytic CO ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25186-25194.	8.0	54
16	Understanding the production of 5-hydroxymethylfurfural (HMF) from chitosan using solid acids. <i>Molecular Catalysis</i> , 2019, 479, 110627.	2.0	15
17	Unsupported and silica-supported perovskite-type lanthanum manganite and lanthanum ferrite in the conversion of ethanol. <i>Fuel Processing Technology</i> , 2019, 194, 106117.	7.2	11
18	Chemical Transformation for 5-Hydroxymethylfurfural Production from Saccharides Using Molten Salt System. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5712-5717.	6.7	24

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19	Carbon-doped SnS ₂ nanostructure as a high-efficiency solar fuel catalyst under visible light. <i>Nature Communications</i> , 2018, 9, 169.	12.8	350
20	The Aldolization Nature of Mn ⁴⁺ -Nonstoichiometric Oxygen Pair Sites of Perovskite-Type LaMnO ₃ in the Conversion of Ethanol. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11949-11958.	6.7	12
21	Frontispiece: Weak-Acid Sites Catalyze the Hydrolysis of Crystalline Cellulose to Glucose in Water: Importance of Post-Synthetic Functionalization of the Carbon Surface. <i>Angewandte Chemie - International Edition</i> , 2015, 54, n/a-n/a.	13.8	0
22	Weak-Acid Sites Catalyze the Hydrolysis of Crystalline Cellulose to Glucose in Water: Importance of Post-Synthetic Functionalization of the Carbon Surface. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11050-11053.	13.8	74
23	Importance of Internal Porosity for Glucan Adsorption in Mesoporous Carbon Materials. <i>Langmuir</i> , 2015, 31, 7288-7295.	3.5	30
24	Long-Chain Glucan Adsorption and Depolymerization in Zeolite-Templated Carbon Catalysts. <i>ACS Catalysis</i> , 2015, 5, 6422-6425.	11.2	62
25	Catalytic Hydrolysis of Cellulose to Glucose Using Weak-Acid Surface Sites on Postsynthetically Modified Carbon. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 2866-2872.	6.7	61
26	Hydrolysis Catalysis of <i>Miscanthus</i> Xylan to Xylose Using Weak-Acid Surface Sites. <i>ACS Catalysis</i> , 2014, 4, 302-310.	11.2	70
27	Glucan Adsorption on Mesoporous Carbon Nanoparticles: Effect of Chain Length and Internal Surface. <i>Langmuir</i> , 2012, 28, 15222-15232.	3.5	89
28	Mesoporous Silica Nanoparticle-Stabilized and Manganese-Modified Rhodium Nanoparticles as Catalysts for Highly Selective Synthesis of Ethanol and Acetaldehyde from Syngas. <i>ChemCatChem</i> , 2012, 4, 674-680.	3.7	28
29	Ordered Mesoporous Polymer-Silica Hybrid Nanoparticles as Vehicles for the Intracellular Controlled Release of Macromolecules. <i>ACS Nano</i> , 2011, 5, 360-366.	14.6	95
30	Facile Synthesis of Monodisperse Spherical MCM-48 Mesoporous Silica Nanoparticles with Controlled Particle Size. <i>Chemistry of Materials</i> , 2010, 22, 5093-5104.	6.7	248
31	Temperature Responsive Solution Partition of Organic-Inorganic Hybrid Poly(<i>N</i> -isopropylacrylamide)-Coated Mesoporous Silica Nanospheres. <i>Advanced Functional Materials</i> , 2008, 18, 1390-1398.	14.9	129
32	Structurally Ordered Mesoporous Carbon Nanoparticles as Transmembrane Delivery Vehicle in Human Cancer Cells. <i>Nano Letters</i> , 2008, 8, 3724-3727.	9.1	258
33	Exploration of complex multilayer film growth morphologies: STM analysis and predictive atomistic modeling for Ag on Ag(111). <i>Physical Review B</i> , 2008, 77, .	3.2	24
34	Temperature dependence of island growth shapes during submonolayer deposition of Ag on Ag(111). <i>Physical Review B</i> , 2005, 71, .	3.2	53
35	Alkaline-earth metal fluoroalkoxide complexes with multi-coordinated polyether appendage: synthesis and characterization. <i>Inorganica Chimica Acta</i> , 2002, 334, 172-182.	2.4	19
36	Synthesis and characterization of two novel tetranuclear sodium ketoiminate complexes; structural evidence for formation of dative Na-S-Na...A...A...S-F and Na-C (olefin) bonding interactions. <i>Dalton Transactions RSC</i> , 2000, , 343-347.	2.3	24