Po-Wen Chung

List of Publications by Year
in descending order

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36	2,015	361413	395702
papers	citations	20 h-index	33 g-index

38	38	38	3058
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carbon-doped SnS2 nanostructure as a high-efficiency solar fuel catalyst under visible light. Nature Communications, 2018, 9, 169.	12.8	350
2	Structurally Ordered Mesoporous Carbon Nanoparticles as Transmembrane Delivery Vehicle in Human Cancer Cells. Nano Letters, 2008, 8, 3724-3727.	9.1	258
3	Facile Synthesis of Monodisperse Spherical MCM-48 Mesoporous Silica Nanoparticles with Controlled Particle Size. Chemistry of Materials, 2010, 22, 5093-5104.	6.7	248
4	Temperature Responsive Solution Partition of Organicâ€“Inorganic Hybrid Poly(Nâ€isopropylacrylamide)â€Coated Mesoporous Silica Nanospheres. Advanced Functional Materials, 2008, 18, 1390-1398.	14.9	129
5	Boosting photocatalytic CO2 reduction in a ZnS/ZnIn2S4 heterostructure through strain-induced direct Z-scheme and a mechanistic study of molecular CO2 interaction thereon. Nano Energy, 2022, 93, 106809.	16.0	110
6	Ordered Mesoporous Polymerâ^'Silica Hybrid Nanoparticles as Vehicles for the Intracellular Controlled Release of Macromolecules. ACS Nano, 2011, 5, 360-366.	14.6	95
7	Glucan Adsorption on Mesoporous Carbon Nanoparticles: Effect of Chain Length and Internal Surface. Langmuir, 2012, 28, 15222-15232.	3.5	89
8	Weakâ€Acid Sites Catalyze the Hydrolysis of Crystalline Cellulose to Glucose in Water: Importance of Postâ€Synthetic Functionalization of the Carbon Surface. Angewandte Chemie - International Edition, 2015, 54, 11050-11053.	13.8	74
9	Hydrolysis Catalysis of Miscanthus Xylan to Xylose Using Weak-Acid Surface Sites. ACS Catalysis, 2014, 4, 302-310.	11.2	70
10	Long-Chain Glucan Adsorption and Depolymerization in Zeolite-Templated Carbon Catalysts. ACS Catalysis, 2015, 5, 6422-6425.	11.2	62
11	Catalytic Hydrolysis of Cellulose to Glucose Using Weak-Acid Surface Sites on Postsynthetically Modified Carbon. ACS Sustainable Chemistry and Engineering, 2014, 2, 2866-2872.	6.7	61
12	KSCN-induced Interfacial Dipole in Black TiO₂ for Enhanced Photocatalytic CO₂ Reduction. ACS Applied Materials & Interfaces, 2019, 11, 25186-25194.	8.0	54
13	Temperature dependence of island growth shapes during submonolayer deposition ofAgonAg(111). Physical Review B, 2005, 71, .	3.2	53
14	Metal-free four-in-one modification of g-C3N4 for superior photocatalytic CO2 reduction and H2 evolution. Chemical Engineering Journal, 2022, 430, 132853.	12.7	44
15	Understanding catalytic hydrogenolysis of 5-hydroxymethylfurfural (HMF) to 2,5-dimethylfuran (DMF) using carbon supported Ru catalysts. Fuel Processing Technology, 2020, 199, 106225.	7.2	40
16	Importance of Internal Porosity for Glucan Adsorption in Mesoporous Carbon Materials. Langmuir, 2015, 31, 7288-7295.	3.5	30
17	Mesoporous Silica Nanoparticleâ€Stabilized and Manganeseâ€Modified Rhodium Nanoparticles as Catalysts for Highly Selective Synthesis of Ethanol and Acetaldehyde from Syngas. ChemCatChem, 2012, 4, 674-680.	3.7	28
18	Synthesis and characterization of two novel tetranuclear sodium ketoiminate complexes; structural evidence for formation of dative Naâ€ŠâŠÂ·â€…Â·â€…Â·â€ŠF and Naâ€“C (olefin) bonding interactions. Dalton Transactions RSC, 2000, , 343-347.	2.3	24

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19	Exploration of complex multilayer film growth morphologies: STM analysis and predictive atomistic modeling for Ag on Ag(111). Physical Review B, 2008, 77, .	3.2	24
20	Chemical Transformation for 5-Hydroxymethylfurfural Production from Saccharides Using Molten Salt System. ACS Sustainable Chemistry and Engineering, 2018, 6, 5712-5717.	6.7	24
21	Hydrophobic Copper Catalysts Derived from Copper Phyllosilicates in the Hydrogenation of Levulinic Acid to Î³-Valerolactone. ACS Applied Materials & Interfaces, 2020, 12, 54851-54861.	8.0	20
22	Alkaline-earth metal fluoroalkoxide complexes with multi-coordinated polyether appendage: synthesis and characterization. Inorganica Chimica Acta, 2002, 334, 172-182.	2.4	19
23	Understanding the production of 5-hydroxymethylfurfural (HMF) from chitosan using solid acids. Molecular Catalysis, 2019, 479, 110627.	2.0	15
24	The oversolubility of methane gas in nano-confined water in nanoporous silica materials. Microporous and Mesoporous Materials, 2020, 293, 109793.	4.4	15
25	The Aldolization Nature of Mn4+-Nonstoichiometric Oxygen Pair Sites of Perovskite-Type LaMnO3 in the Conversion of Ethanol. ACS Sustainable Chemistry and Engineering, 2018, 6, 11949-11958.	6.7	12
26	Unsupported and silica-supported perovskite-type lanthanum manganite and lanthanum ferrite in the conversion of ethanol. Fuel Processing Technology, 2019, 194, 106117.	7.2	11
27	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. Angewandte Chemie - International Edition, 2021, 60, 19144-19154.	13.8	11
28	Photocatalytic CO2 reduction for C2-C3 oxy-compounds on ZIF-67 derived carbon with TiO2. Journal of CO2 Utilization, 2022, 58, 101920.	6.8	8
29	Solution-Processable Naphthalene Diimide-Based Conjugated Polymers as Organocatalysts for Photocatalytic CO₂ Reaction with Extremely Stable Catalytic Activity for Over 330 Hours. Chemistry of Materials, 2022, 34, 4955-4963.	6.7	8
30	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. Angewandte Chemie, 2021, 133, 19293-19303.	2.0	6
31	Chromatic Fulleropyrrolidine as Longâ€Lived Metalâ€Free Catalyst for CO₂ Photoreduction Reaction. ChemSusChem, 2022, 15, .	6.8	4
32	Silica-Supported Nanoscale Hydrotalcite-Derived Oxides for C4 Chemicals from Ethanol Condensation. ACS Applied Nano Materials, 2022, 5, 7885-7895.	5.0	3
33	Frontispiece: Weak-Acid Sites Catalyze the Hydrolysis of Crystalline Cellulose to Glucose in Water: Importance of Post-Synthetic Functionalization of the Carbon Surface. Angewandte Chemie - International Edition, 2015, 54, n/a-n/a.	13.8	0
34	Frontispiece: Materials Engineering of Violin Soundboards by Stradivari and Guarneri. Angewandte Chemie - International Edition, 2021, 60, .	13.8	0
35	Frontispiz: Materials Engineering of Violin Soundboards by Stradivari and Guarneri. Angewandte Chemie, 2021, 133, .	2.0	0
36	Connecting Molecular and Supramolecular Shapeshifting by the Ostwaldâ€™s Nucleation Stages of a Star Giant Molecule. Journal of the American Chemical Society, 2022, , .	13.7	0