

Simon H Pang

List of Publications by Year in descending order

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34
papers

1,918
citations

331259

21
h-index

414034

32
g-index

35
all docs

35
docs citations

35
times ranked

2648
citing authors

#	ARTICLE	IF	CITATIONS
1	Directing reaction pathways by catalyst active-site selection using self-assembled monolayers. <i>Nature Communications</i> , 2013, 4, 2448.	5.8	180
2	Adsorption and Reaction of Furfural and Furfuryl Alcohol on Pd(111): Unique Reaction Pathways for Multifunctional Reagents. <i>ACS Catalysis</i> , 2011, 1, 1272-1283.	5.5	145
3	Synergy between Ceria Oxygen Vacancies and Cu Nanoparticles Facilitates the Catalytic Conversion of CO ₂ to CO under Mild Conditions. <i>ACS Catalysis</i> , 2018, 8, 12056-12066.	5.5	137
4	Direct CO ₂ Capture from Air using Poly(ethylenimine)-Loaded Polymer/Silica Fiber Sorbents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5264-5273.	3.2	131
5	Facet-Specific Stability of ZIF-8 in the Presence of Acid Gases Dissolved in Aqueous Solutions. <i>Chemistry of Materials</i> , 2016, 28, 6960-6967.	3.2	127
6	Interactions of SO ₂ -Containing Acid Gases with ZIF-8: Structural Changes and Mechanistic Investigations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27221-27229.	1.5	115
7	Design of Aminopolymer Structure to Enhance Performance and Stability of CO ₂ Sorbents: Poly(propylenimine) vs Poly(ethylenimine). <i>Journal of the American Chemical Society</i> , 2017, 139, 3627-3630.	6.6	115
8	Effects of Thiol Modifiers on the Kinetics of Furfural Hydrogenation over Pd Catalysts. <i>ACS Catalysis</i> , 2014, 4, 3123-3131.	5.5	106
9	Propane Dehydrogenation over Alumina-Supported Iron/Phosphorus Catalysts: Structural Evolution of Iron Species Leading to High Activity and Propylene Selectivity. <i>ACS Catalysis</i> , 2016, 6, 5673-5683.	5.5	96
10	Aminopolymer-Impregnated Hierarchical Silica Structures: Unexpected Equivalent CO ₂ Uptake under Simulated Air Capture and Flue Gas Capture Conditions. <i>Chemistry of Materials</i> , 2019, 31, 5229-5237.	3.2	85
11	Synergistic Effects of Water and SO ₂ on Degradation of MIL-125 in the Presence of Acid Gases. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27230-27240.	1.5	79
12	Vapor phase hydrogenation of furfural over nickel mixed metal oxide catalysts derived from layered double hydroxides. <i>Applied Catalysis A: General</i> , 2016, 517, 187-195.	2.2	73
13	Oxidatively Stable Linear Poly(propylenimine)-Containing Adsorbents for CO ₂ Capture from Ultradilute Streams. <i>ChemSusChem</i> , 2018, 11, 2628-2637.	3.6	72
14	PIM-1 as a Solution-Processable "Molecular Basket" for CO ₂ Capture from Dilute Sources. <i>ACS Macro Letters</i> , 2015, 4, 1415-1419.	2.3	60
15	Synergistic Effects of Alloying and Thiolate Modification in Furfural Hydrogenation over Cu-Based Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4110-4114.	2.1	56
16	Adsorption Orientation-Induced Selectivity Control of Reactions of Benzyl Alcohol on Pd(111). <i>Journal of Physical Chemistry C</i> , 2012, 116, 13654-13660.	1.5	54
17	Effect of Extended Aging and Oxidation on Linear Poly(propylenimine)-Mesoporous Silica Composites for CO ₂ Capture from Simulated Air and Flue Gas Streams. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38085-38097.	4.0	46
18	Controlling Catalytic Selectivity via Adsorbate Orientation on the Surface: From Furfural Deoxygenation to Reactions of Epoxides. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1348-1356.	2.1	37

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19	Adsorption Microcalorimetry of CO ₂ in Confined Aminopolymers. <i>Langmuir</i> , 2017, 33, 117-124.	1.6	29
20	Efficient Hydrogen Delivery for Microbial Electrosynthesis via 3D-Printed Cathodes. <i>Frontiers in Microbiology</i> , 2021, 12, 696473.	1.5	25
21	O H versus C H bond scission sequence in ethanol decomposition on Pd(111). <i>Surface Science</i> , 2014, 619, 114-118.	0.8	22
22	Ring-Opening and Oxidation Pathways of Furanic Oxygenates on Oxygen-Precovered Pd(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 27933-27943.	1.5	20
23	Temperature-Programmed Desorption for Isotope Separation in Nanoporous Materials. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1995-2001.	1.5	19
24	3D Printed Polymer Composites for CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22015-22020.	1.8	17
25	Surface Chemistry of 2-Iodoethanol on Pd(111): Orientation of Surface-Bound Alcohol Controls Selectivity. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4201-4208.	1.5	13
26	Hydrogen Exposure Effects on Pt/Al ₂ O ₃ Catalysts Coated with Thiolate Monolayers. <i>Langmuir</i> , 2014, 30, 14104-14110.	1.6	11
27	Control of surface alkyl catalysis with thiolate monolayers. <i>Catalysis Science and Technology</i> , 2016, 6, 2413-2418.	2.1	11
28	Linking Silica Support Morphology to the Dynamics of Aminopolymers in Composites. <i>Langmuir</i> , 2017, 33, 5412-5422.	1.6	11
29	Transport Cost for Carbon Removal Projects With Biomass and CO ₂ Storage. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	9
30	Volatile Products of the Autoxidation of Poly(ethylenimine) in CO ₂ Sorbents. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8807-8816.	1.5	9
31	Fluorescent Probe of Aminopolymer Mobility in Bulk and in Nanoconfined Direct Air CO ₂ Capture Supports. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10419-10428.	1.5	5
32	Developing reactors for electrifying bio-methanation: a perspective from bio-electrochemistry. <i>Sustainable Energy and Fuels</i> , 2022, 6, 1249-1263.	2.5	3
33	Hydrogenolysis of N-Benzylcyclohexylamine: A Support Specific "Nano Effect". <i>Catalysis Letters</i> , 2021, 151, 2972-2981.	1.4	0
34	CATALYSIS BY MICROPOROUS METAL ORGANIC FRAMEWORKS. , 2018, , .		0