Shuai Tan

List of Publications by Citations

21 papers	697 citations	16 h-index	21 g-index
21 ext. papers	823 ext. citations	7.3 avg, IF	3.83 L-index

#	Paper	IF	Citations
21	Role of Additives in Composite PEI/Oxide CO Adsorbents: Enhancement in the Amine Efficiency of Supported PEI by PEG in CO Capture from Simulated Ambient Air. *ACS Applied Materials & Interfaces*, **2015**, 7, 24748-59	9.5	82
20	Propane Dehydrogenation over Alumina-Supported Iron/Phosphorus Catalysts: Structural Evolution of Iron Species Leading to High Activity and Propylene Selectivity. *ACS Catalysis*, **2016**, 6, 5673-5683	13.1	79
19	Facile synthesis of hierarchical MoS2 arbon microspheres as a robust anode for lithium ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 9653-9660	13	68
18	Catalytic propane dehydrogenation over In2O3 a2O3 mixed oxides. *Applied Catalysis A: General*, **2015**, 498, 167-175	5.1	62
17	Poly(ethylenimine)-Functionalized Monolithic Alumina Honeycomb Adsorbents for CO2 Capture from Air. *ChemSusChem*, **2016**, 9, 1859-68	8.3	45
16	A Mesoporous Cobalt Aluminate Spinel Catalyst for Nonoxidative Propane Dehydrogenation. *ChemCatChem*, **2017**, 9, 3330-3337	5.2	44
15	Propane Dehydrogenation over In2O3 a2O3 Al2O3 Mixed Oxides. *ChemCatChem*, **2016**, 8, 214-221	5.2	41
14	Metal Organic Frameworks for Selective Adsorption of t-Butyl Mercaptan from Natural Gas. *Energy & Fuels*, **2015**, 29, 3312-3321	4.1	35
13	Significantly increasing porosity of mesoporous carbon by NaNH2 activation for enhanced CO2 adsorption. *Microporous and Mesoporous Materials*, **2016**, 230, 100-108	5.3	34
12	Harnessing strong metal-support interactions via a reverse route. *Nature Communications*, **2020**, 11, 3042	17.4	33
11	Titanium Oxynitride Nanoparticles Anchored on Carbon Nanotubes as Energy Storage Materials. *ACS Applied Materials & Interfaces*, **2015**, 7, 24212-7	9.5	26
10	Amine Functionalization of Microsized and Nanosized Mesoporous Carbons for Carbon Dioxide Capture. *Industrial & Engineering Chemistry Research*, **2016**, 55, 7355-7361	3.9	24
9	Structure design and photocatalytic properties of one-dimensional SnO2-TiO2 composites. *Nanoscale Research Letters*, **2015**, 10, 200	5	20
8	One-Step Synthesis of Zeolite Membranes Containing Catalytic Metal Nanoclusters. *ACS Applied Materials & Interfaces*, **2016**, 8, 24671-81	9.5	20
7	An In Situ Spectroscopic Study of Prochiral Reactant hiral Modifier Interactions on Palladium Catalyst: Case of Alkenoic Acid and Cinchonidine in Various Solvents. *Journal of Physical Chemistry C* , **2013**, 117, 18043-18052	3.8	17
6	Three-Dimensional Clustered Nanostructures for Microfluidic Surface-Enhanced Raman Detection. *ACS Applied Materials & Interfaces*, **2016**, 8, 24974-81	9.5	16
5	Insight into the Selectivity of Isopropanol Conversion at Strontium Titanate (100) Surfaces: A Combination Kinetic and Spectroscopic Study. *ACS Catalysis*, **2017**, 7, 8118-8129	13.1	14

List of Publications

4	In situ ATR-IR study of prochiral 2-methyl-2-pentenoic acid adsorption on Al2O3 and Pd/Al2O3. *Physical Chemistry Chemical Physics*, **2011**, 13, 19573-9	3.6	14
3	Kinetic Study of Asymmetric Hydrogenation of □□Unsaturated Carboxylic Acid Over Cinchona-Modified Pd/Al2O3 Catalyst. *Topics in Catalysis*, **2012**, 55, 512-517	2.3	12
2	Strong Effect of B-Site Substitution on the Reactivity of Layered Perovskite Oxides Probed via Isopropanol Conversion **2019**, 1, 230-236		7
1	Design of a facility for the in situ measurement of catalytic reaction by neutron scattering spectroscopy. *Review of Scientific Instruments*, **2018**, 89, 014101	1.7	4