

Shuai Tan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Harnessing strong metal-support interactions via a reverse route. <i>Nature Communications</i> , 2020 , 11, 30427-30432	27.4	33
20	Strong Effect of B-Site Substitution on the Reactivity of Layered Perovskite Oxides Probed via Isopropanol Conversion 2019 , 1, 230-236		7
19	Design of a facility for the in situ measurement of catalytic reaction by neutron scattering spectroscopy. <i>Review of Scientific Instruments</i> , 2018 , 89, 014101	1.7	4
18	A Mesoporous Cobalt Aluminate Spinel Catalyst for Nonoxidative Propane Dehydrogenation. <i>ChemCatChem</i> , 2017 , 9, 3330-3337	5.2	44
17	Insight into the Selectivity of Isopropanol Conversion at Strontium Titanate (100) Surfaces: A Combination Kinetic and Spectroscopic Study. <i>ACS Catalysis</i> , 2017 , 7, 8118-8129	13.1	14
16	One-Step Synthesis of Zeolite Membranes Containing Catalytic Metal Nanoclusters. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24671-81	9.5	20
15	Three-Dimensional Clustered Nanostructures for Microfluidic Surface-Enhanced Raman Detection. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24974-81	9.5	16
14	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	13.1	79
13	Amine Functionalization of Microsized and Nanosized Mesoporous Carbons for Carbon Dioxide Capture. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7355-7361	3.9	24
12	Poly(ethylenimine)-Functionalized Monolithic Alumina Honeycomb Adsorbents for CO ₂ Capture from Air. <i>ChemSusChem</i> , 2016 , 9, 1859-68	8.3	45
11	Propane Dehydrogenation over In ₂ O ₃ /Ga ₂ O ₃ /Al ₂ O ₃ Mixed Oxides. <i>ChemCatChem</i> , 2016 , 8, 214-221	5.2	41
10	Facile synthesis of hierarchical MoS ₂ /carbon microspheres as a robust anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9653-9660	13	68
9	Significantly increasing porosity of mesoporous carbon by NaNH ₂ activation for enhanced CO ₂ adsorption. <i>Microporous and Mesoporous Materials</i> , 2016 , 230, 100-108	5.3	34
8	Metal Organic Frameworks for Selective Adsorption of t-Butyl Mercaptan from Natural Gas. <i>Energy & Fuels</i> , 2015 , 29, 3312-3321	4.1	35
7	Catalytic propane dehydrogenation over In ₂ O ₃ /Ga ₂ O ₃ mixed oxides. <i>Applied Catalysis A: General</i> , 2015 , 498, 167-175	5.1	62
6	Structure design and photocatalytic properties of one-dimensional SnO ₂ -TiO ₂ composites. <i>Nanoscale Research Letters</i> , 2015 , 10, 200	5	20
5	Role of Additives in Composite PEI/Oxide CO ₂ Adsorbents: Enhancement in the Amine Efficiency of Supported PEI by PEG in CO ₂ Capture from Simulated Ambient Air. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24748-59	9.5	82

4	Titanium Oxynitride Nanoparticles Anchored on Carbon Nanotubes as Energy Storage Materials. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24212-7	9.5	26
3	An In Situ Spectroscopic Study of Prochiral Reactant-Chiral Modifier Interactions on Palladium Catalyst: Case of Alkenoic Acid and Cinchonidine in Various Solvents. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18043-18052	3.8	17
2	Kinetic Study of Asymmetric Hydrogenation of β -Unsaturated Carboxylic Acid Over Cinchona-Modified Pd/Al ₂ O ₃ Catalyst. <i>Topics in Catalysis</i> , 2012 , 55, 512-517	2.3	12
1	In situ ATR-IR study of prochiral 2-methyl-2-pentenoic acid adsorption on Al ₂ O ₃ and Pd/Al ₂ O ₃ . <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 19573-9	3.6	14