Shenghu Zhou

List of Publications by Year
in descending order

50 papers	1,841 citations	331670 21 h-index	265206 42 g-index
51 all docs	51 docs citations	51 times ranked	2483 citing authors

#	Article	IF	Citations
1	Synthesis of Hollow Silica Nanotubes from Linear Metallosupramolecular Polyelectrolytes and Their Application as Catalyst Supports for Hydrogenation. ACS Applied Materials & Interfaces, 2022, 14, 5867-5875.	8.0	2
2	Oxygen-vacancy-rich Fe₃O₄/carbon nanosheets enabling high-attenuation and broadband microwave absorption through the integration of interfacial polarization and charge-separation polarization. Journal of Materials Chemistry A, 2022, 10, 8479-8490.	10.3	26
3	Self-Etherification of 5-Hydroxymethylfurfural to 5,5â€²(Oxy-bis(methylene))bis-2-furfural over Hierarchically Micromesoporous ZSM-5: The Role of BrÃ¸nsted- and Lewis-Acid Sites. Industrial & Engineering Chemistry Research, 2022, 61, 987-994.	3.7	3
4	Pt-NixOy heteroaggregate nanoparticles confined in hollow mesoporous silica nanospheres for enhanced hydrolysis of ammonia borane. Microporous and Mesoporous Materials, 2022, 341, 112067.	4.4	3
5	Coating PtRh alloy nanoparticles with mesoporous silica for the hydrogenation of toluene to methylcyclohexane. Reaction Kinetics, Mechanisms and Catalysis, 2022, 135, 1945-1956.	1.7	0
6	Selective hydrogenation of phenol to cyclohexanone over Pd nanoparticles encaged hollow mesoporous silica catalytic nanoreactors. Applied Catalysis A: General, 2021, 610, 117961.	4.3	18
7	Pdâ€"Fe_{<i>x</i>}O_{<i>y</i>} Hybrid Nanoparticles Encaged Hollow Mesoporous Silica Nanoreactors for Reduction of Nitroarenes to Aminoarenes. Journal of Physical Chemistry C, 2021, 125, 4001-4009.	3.1	7
8	Hydrogenation of Toluene to Methyl Cyclohexane over PtRh Bimetallic Nanoparticle-Encaged Hollow Mesoporous Silica Catalytic Nanoreactors. ACS Omega, 2021, 6, 5846-5855.	3.5	8
9	Hollow Mesoporous Nanoreactors with Encaged PtSn Alloy Nanoparticles for Selective Hydrogenation of Furfural to Furfuryl Alcohol. Industrial & Engineering Chemistry Research, 2021, 60, 6078-6088.	3.7	10
10	Pt Nanoparticles Confined in Hollow Mesoporous Silica Nanoreactors for Phenol Selective Hydrogenation to Cyclohexanol. Chemistry Letters, 2021, 50, 2001-2005.	1.3	0
11	Simultaneous Construction of Silica Nanotubes Loaded with Pd Nanoparticles for Catalytic Hydrodechlorination of Chlorophenols. ACS Applied Nano Materials, 2021, 4, 10692-10700.	5.0	5
12	Highly Efficient Irâ€"CoO<i>_x</i> Hybrid Nanostructures for the Selective Hydrogenation of Furfural to Furfuryl Alcohol. Langmuir, 2021, 37, 1894-1901.	3.5	9
13	Theoretical exploration on the vibrational and mechanical properties of M₃C₂/M₃C₂T₂ MXenes. International Journal of Quantum Chemistry, 2020, 120, e26409.	2.0	10
14	Rh nanoclusters encaged in hollow mesoporous silica nanoreactors with enhanced catalytic performance for phenol selective hydrogenation. Chemical Engineering Journal, 2020, 397, 125484.	12.7	46
15	Controlled Synthesis of Manganese Oxide Nanoparticles Encaged in Hollow Mesoporous Silica Nanoreactors and Their Enhanced Dye Degradation Activity. ACS Omega, 2020, 5, 6852-6861.	3.5	8
16	Coordination-Enhanced Synthesis for Hollow Mesoporous Silica Nanoreactors. Chemistry of Materials, 2020, 32, 2086-2096.	6.7	21
17	Antioxidative and stable PdZn/ZnO/Al2O3 catalyst coatings concerning methanol steam reforming for fuel cell-powered vehicles. Applied Energy, 2020, 268, 115043.	10.1	28
18	First-principles study of magnetism in some novel MXene materials. RSC Advances, 2020, 10, 44430-44436.	3.6	11

#	ARTICLE	IF	CITATIONS
19	Structural Identification and Enhanced Catalytic Performance of Alumina-Supported Well-Defined Rh-SnO₂ Close-Contact Heteroaggragate Nanostructures. ACS Applied Nano Materials, 2019, 2, 5086-5095.	5.0	10
20	Controllable Synthesis of Surface Pt-Rich Bimetallic AuPt Nanocatalysts for Selective Hydrogenation Reactions. ACS Omega, 2019, 4, 15621-15627.	3.5	11
21	Enhanced Catalytic Performance for Hydrogenation of Substituted Nitroaromatics over Ir-Based Bimetallic Nanocatalysts. ACS Applied Materials & Interfaces, 2019, 11, 6958-6969.	8.0	29
22	Controlled Synthesis and Enhanced Catalytic Activity of Well-Defined Close-Contact Pdâ€“ZnO Nanostructures. Langmuir, 2019, 35, 6288-6296.	3.5	6
23	Entropyâ€Maximized Synthesis of Multimetallic Nanoparticle Catalysts via a Ultrasonicationâ€Assisted Wet Chemistry Method under Ambient Conditions. Advanced Materials Interfaces, 2019, 6, 1900015.	3.7	130
24	Supported CuNi Alloy Catalyzed N-Alkylation of Bioderived 2,5-Dihydroxymethylfuran With Aniline. Industrial & Engineering Chemistry Research, 2019, 58, 6309-6315.	3.7	11
25	One-Pot Syntheses of Porous Hollow Silica Nanoreactors Encapsulating Rare Earth Oxide Nanoparticles for Methylene Blue Degradation. Industrial & Engineering Chemistry Research, 2019, 58, 3726-3734.	3.7	15
26	Enhanced Catalytic Hydrogenation Performance of Rh-Co₂O₃ Heteroaggregate Nanostructures by in Situ Transformation of Rh@Co Coreâ€“Shell Nanoparticles. ACS Omega, 2019, 4, 20829-20837.	3.5	9
27	Design of Cu-based intermetallic nanocrystals for enhancing hydrogenation selectivity. Chemical Engineering Science, 2019, 196, 402-413.	3.8	22
28	Pd-SnO2/Al2O3 heteroaggregate nanocatalysts for selective hydrogenations of p-nitroacetophenone and p-nitrobenzaldehyde. Applied Catalysis A: General, 2018, 549, 273-279.	4.3	17
29	A Generic Method for Preparing Hollow Mesoporous Silica Catalytic Nanoreactors with Metal Oxide Nanoparticles inside Their Cavities. Angewandte Chemie, 2018, 130, 16696-16701.	2.0	8
30	A Generic Method for Preparing Hollow Mesoporous Silica Catalytic Nanoreactors with Metal Oxide Nanoparticles inside Their Cavities. Angewandte Chemie - International Edition, 2018, 57, 16458-16463.	13.8	45
31	First-principles study on the electrical and thermal properties of the semiconducting Sc₃(CN)F₂ MXene. RSC Advances, 2018, 8, 22452-22459.	3.6	24
32	Design of Highly Efficient Pt-SnO₂ Hydrogenation Nanocatalysts using Pt@Sn Coreâ€“Shell Nanoparticles. ACS Catalysis, 2017, 7, 1583-1591.	11.2	86
33	AuPd@Mesoporous SiO₂: Synthesis and Selectivity in Catalytic Hydrogenation/Hydrodechlorination of <i>p</i>-Chloronitrobenzene. Journal of Nanoscience and Nanotechnology, 2017, 17, 3744-3750.	0.9	2
34	Fe,Pd Coâ€Incorporated LaCoO₃ Perovskites: Modification of Thermal Stability and Catalytic Activity for Gasoline Vehicle Exhaust Purification. European Journal of Inorganic Chemistry, 2015, 2015, 2317-2322.	2.0	4
35	Mesoporous KIT-6 Supported Pdâ€“M x O y (MÂ=ÂNi, Co, Fe) Catalysts with Enhanced Selectivity for p-Chloronitrobenzene Hydrogenation. Catalysis Letters, 2015, 145, 784-793.	2.6	28
36	Kinetically Stabilized Pd@Pt Coreâ€“Shell Octahedral Nanoparticles with Thin Pt Layers for Enhanced Catalytic Hydrogenation Performance. ACS Catalysis, 2015, 5, 1335-1343.	11.2	72

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37	Architecture controlled PtNi@mSiO₂ and Ptâ€“NiO@mSiO₂ mesoporous coreâ€“shell nanocatalysts for enhanced p-chloronitrobenzene hydrogenation selectivity. RSC Advances, 2015, 5, 20238-20247.	3.6	28
38	Tandem catalytic conversion of 1-butene and ethene to propene over combined mesoporous W-FDU-12 and MgO catalysts. RSC Advances, 2015, 5, 23981-23989.	3.6	19
39	Metathesis of 1-butene and ethene to propene over mesoporous W-KIT-6 catalysts: the influence of Si/W ratio. Journal of Porous Materials, 2015, 22, 613-620.	2.6	13
40	Enhanced catalytic performance for metathesis reactions over ordered tungsten and aluminum co-doped mesoporous KIT-6 catalysts. New Journal of Chemistry, 2015, 39, 7971-7978.	2.8	24
41	Controlled synthesis of Pdâ€“NiO@SiO₂ mesoporous coreâ€“shell nanoparticles and their enhanced catalytic performance for p-chloronitrobenzene hydrogenation with H₂. Catalysis Science and Technology, 2015, 5, 405-414.	4.1	56
42	Enhanced catalytic performance of molybdenum-doped mesoporous SBA-15 for metathesis of 1-butene and ethene to propene. Catalysis Science and Technology, 2014, 4, 4010-4019.	4.1	50
43	Transformation of Au3M/SiO2 (MÂ=ÂNi, Co, Fe) into Auâ€“MO x /SiO2 Catalysts for the Reduction of p-Nitrophenol. Catalysis Letters, 2014, 144, 1001-1008.	2.6	9
44	Solâ€“gel auto-combustion synthesis of Niâ€“CexZr1â^'xO2 catalysts for carbon dioxide reforming of methane. RSC Advances, 2013, 3, 22285.	3.6	24
45	Size-Controlled Synthesis of Highly Stable and Active Pd@SiO₂ Coreâ€“Shell Nanocatalysts for Hydrogenation of Nitrobenzene. Journal of Physical Chemistry C, 2013, 117, 8974-8982.	3.1	63
46	Enhanced Catalytic Hydrogenation Activity and Selectivity of Pt-M_{<i>x</i>}O_{<i>y</i>}/Al₂O₃ (M = Ni, Fe, Co) Heteroaggregate Catalysts by <i>in Situ</i> Transformation of PtM Alloy Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 7294-7302.	3.1	37
47	Low-Temperature Solution-Phase Synthesis of NiAu Alloy Nanoparticles via Butyllithium Reduction: Influences of Synthesis Details and Application As the Precursor to Active Au-NiO/SiO₂ Catalysts through Proper Pretreatment. Journal of Physical Chemistry C, 2009, 113, 5758-5765.	3.1	50
48	In Situ Phase Separation of NiAu Alloy Nanoparticles for Preparing Highly Active Au/NiO CO Oxidation Catalysts. ChemPhysChem, 2008, 9, 2475-2479.	2.1	91
49	Enhanced CO Tolerance for Hydrogen Activation in Auâ^'Pt Dendritic Heteroaggregate Nanostructures. Journal of the American Chemical Society, 2006, 128, 1780-1781.	13.7	229
50	Pt-Cu Core-Shell and Alloy Nanoparticles for Heterogeneous NOx Reduction: Anomalous Stability and Reactivity of a Core-Shell Nanostructure. Angewandte Chemie - International Edition, 2005, 44, 4539-4543.	13.8	214