

Chuan Shi

List of Publications by Year in descending order

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82
papers

5,655
citations

109137

35
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76769

74
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82
all docs

82
docs citations

82
times ranked

6432
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma-assisted dry reforming of methane over Mo ₂ C-Ni/Al ₂ O ₃ catalysts: Effects of \hat{I}^2 -Mo ₂ C promoter. Applied Catalysis B: Environmental, 2022, 301, 120779.	10.8	53
2	Constructing single-crystalline hierarchical plate-like ZSM-5 zeolites with short <i>b</i> -axis length for catalyzing MTO reactions. Inorganic Chemistry Frontiers, 2022, 9, 1456-1466.	3.0	11
3	Rapid solvent-free synthesis of nano-sized ZSM-5 with a low Si/Al ratio at 90 °C. Inorganic Chemistry Frontiers, 2022, 9, 1992-2000.	3.0	8
4	Plate-like MFI crystal growth achieved by guanidine compounds. Inorganic Chemistry Frontiers, 2022, 9, 2097-2103.	3.0	9
5	Rare-earth Yttrium Exchanged Cu ^{SSZ-39} Zeolite with Superior Hydrothermal Stability and SO ₂ Tolerance in NH ₃ SCR of NO _x . ChemCatChem, 2022, 14, .	1.8	6
6	Coke-resistant (Pt+Ni)/ZSM-5 catalyst for shape-selective alkylation of toluene with methanol to para-xylene. Chemical Engineering Science, 2022, 252, 117529.	1.9	14
7	Engineering the Local Coordination Environment and Density of FeN ₄ Sites by Mn Cooperation for Electrocatalytic Oxygen Reduction. Small, 2022, 18, e2200911.	5.2	44
8	A highly dispersed Ni ₃ P/HZSM-5 catalyst for hydrodeoxygenation of phenolic compounds to cycloalkanes. Journal of Catalysis, 2022, 410, 294-306.	3.1	11
9	Design of highly stable metal/ZSM-5 catalysts for the shape-selective alkylation of toluene with methanol to <i>para</i> -xylene. Inorganic Chemistry Frontiers, 2022, 9, 3348-3358.	3.0	9
10	Kinetic investigation of phenol hydrodeoxygenation over unsupported nickel phosphides. Catalysis Today, 2021, 371, 179-188.	2.2	14
11	Highly active sites of low spin FeN ₄ species: The identification and the ORR performance. Nano Research, 2021, 14, 122-130.	5.8	42
12	Cobalt oxide with flake-like morphology as efficient passive NO _x adsorber. Catalysis Communications, 2021, 149, 106203.	1.6	11
13	\hat{I}^2 -MoC _{1-x} nanorods as an efficient hydrogen evolution reaction electrocatalyst. New Journal of Chemistry, 2021, 45, 10396-10401.	1.4	12
14	Tailored activity of Cu-Fe bimetallic Beta zeolite with promising C ₃ H ₆ resistance for NH ₃ -SCR. Catalysis Science and Technology, 2021, 11, 646-655.	2.1	9
15	A stable low-temperature H ₂ -production catalyst by crowding Pt on \hat{I}^2 -MoC. Nature, 2021, 589, 396-401.	13.7	290
16	Effects of the Pore Structure and Acid-Base Property of X Zeolites on Side-Chain Alkylation of Toluene with Methanol. Industrial & Engineering Chemistry Research, 2021, 60, 14381-14396.	1.8	8
17	Hydrogenative Ring-Rearrangement of Furfural to Cyclopentanone over Pd/UiO-66-NO ₂ with Tunable Missing-Linker Defects. Molecules, 2021, 26, 5736.	1.7	10
18	The synthesis of pure and uniform nanosized TS-1 crystals with a high titanium content and a high space-time yield. Inorganic Chemistry Frontiers, 2021, 8, 5260-5269.	3.0	11

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19	Phase transformation of iron oxide to carbide and Fe ₃ C as an active center for the RWGS reaction. <i>New Journal of Chemistry</i> , 2021, 45, 22444-22449.	1.4	16
20	Synergy between \hat{I}^2 -Mo ₂ C Nanorods and Non-thermal Plasma for Selective CO ₂ Reduction to CO. <i>CheM</i> , 2020, 6, 3312-3328.	5.8	47
21	Investigation into the Catalytic Roles of Various Oxygen Species over Different Crystal Phases of MnO ₂ for C ₆ H ₆ and HCHO Oxidation. <i>ACS Catalysis</i> , 2020, 10, 6176-6187.	5.5	172
22	New insights into the size and support effects of \hat{I}^3 -Al ₂ O ₃ supported Au catalysts for HCHO oxidation at room temperature. <i>Catalysis Science and Technology</i> , 2020, 10, 4571-4579.	2.1	10
23	Insights into the structure-activity relationships of highly efficient CoMn oxides for the low temperature NH ₃ -SCR of NO _x . <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119215.	10.8	68
24	Catalytic Transfer Hydrogenation of Levulinic Acid to \hat{I}^3 -Valerolactone over Ni ₃ P-CePO ₄ Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7416-7425.	1.8	45
25	Rare-earth ion exchanged Cu-SSZ-13 zeolite from organotemplate-free synthesis with enhanced hydrothermal stability in NH ₃ -SCR of NO _x . <i>Catalysis Science and Technology</i> , 2019, 9, 241-251.	2.1	64
26	Catalytic Materials for Low Concentration VOCs Removal through "Storage-Regeneration-Cycling". <i>ChemCatChem</i> , 2019, 11, 3646-3661.	1.8	23
27	Positive effects of K ⁺ in hybrid CoMn-K and Pd/Ba/Al ₂ O ₃ catalysts for NO _x storage and reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 249, 333-345.	10.8	19
28	Hybrid catalysts with enhanced C ₃ H ₆ resistance for NH ₃ -SCR of NO _x . <i>Applied Catalysis B: Environmental</i> , 2019, 242, 161-170.	10.8	33
29	Three-dimensional nitrogen-doped porous carbon anchored CeO ₂ quantum dots as an efficient catalyst for formaldehyde oxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7897-7902.	5.2	55
30	Progress in hydrogen production over transition metal carbide catalysts: challenges and opportunities. <i>Current Opinion in Chemical Engineering</i> , 2018, 20, 68-77.	3.8	40
31	CoMn _x O _y nanosheets with molecular-scale homogeneity: an excellent catalyst for toluene combustion. <i>Catalysis Science and Technology</i> , 2018, 8, 459-471.	2.1	95
32	Atomic-layered Au clusters on \hat{I}^{\pm} -MoC as catalysts for the low-temperature water-gas shift reaction. <i>Science</i> , 2017, 357, 389-393.	6.0	534
33	Cu-exchanged Al-rich SSZ-13 zeolite from organotemplate-free synthesis as NH ₃ -SCR catalyst: Effects of Na ⁺ ions on the activity and hydrothermal stability. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 421-428.	10.8	161
34	Low-temperature hydrogen production from water and methanol using Pt/ \hat{I}^{\pm} -MoC catalysts. <i>Nature</i> , 2017, 544, 80-83.	13.7	1,090
35	Pt- and Pd-Promoted CeO ₂ -ZrO ₂ for Passive NO _x Adsorber Applications. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 111-125.	1.8	67
36	Highly Dispersed Copper over \hat{I}^2 -Mo ₂ C as an Efficient and Stable Catalyst for the Reverse Water Gas Shift (RWGS) Reaction. <i>ACS Catalysis</i> , 2017, 7, 912-918.	5.5	263

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37	Heterogeneous Catalytic Transfer Partial-Hydrogenation with Formic Acid as Hydrogen Source Over the Schiff-Base Modified Gold Nano-Catalyst. <i>Catalysis Letters</i> , 2017, 147, 517-524.	1.4	12
38	Phase Effect of Ni _x P _y Hybridized with g-C ₃ N ₄ for Photocatalytic Hydrogen Generation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30583-30590.	4.0	116
39	Photocatalytic Formaldehyde Oxidation over Plasmonic Au/TiO ₂ under Visible Light: Moisture Indispensability and Light Enhancement. <i>ACS Catalysis</i> , 2017, 7, 6514-6524.	5.5	121
40	“Storage-oxidation” cycling process for indoor benzene removal at room temperature. <i>Catalysis Today</i> , 2017, 297, 193-200.	2.2	10
41	Low-temperature H ₂ -plasma-assisted NO _x storage and reduction over a combined Pt/Ba/Al and LaMnFe catalyst. <i>Catalysis Science and Technology</i> , 2017, 7, 145-158.	2.1	13
42	Nano-sized gold particles dispersed on HZSM-5 and SiO ₂ substrates for catalytic oxidation of HCHO. <i>Catalysis Today</i> , 2017, 281, 512-519.	2.2	52
43	Improvement of catalytic activity over Cu-Fe modified Al-rich Beta catalyst for the selective catalytic reduction of NO with NH ₃ . <i>Microporous and Mesoporous Materials</i> , 2016, 236, 211-217.	2.2	39
44	Fe-doped Beta zeolite from organotemplate-free synthesis for NH ₃ -SCR of NO _x . <i>Catalysis Science and Technology</i> , 2016, 6, 6581-6592.	2.1	29
45	Gold stabilized on various oxide supports catalyzing formaldehyde oxidation at room temperature. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1729-1737.	6.9	31
46	Ozone catalytic oxidation for ammonia removal from simulated air at room temperature. <i>Catalysis Science and Technology</i> , 2015, 5, 2227-2237.	2.1	5
47	An energy-efficient catalytic process for the tandem removal of formaldehyde and benzene by metal/HZSM-5 catalysts. <i>Catalysis Science and Technology</i> , 2015, 5, 4968-4972.	2.1	13
48	Nanoscale HZSM-5 supported PtAg bimetallic catalysts for simultaneous removal of formaldehyde and benzene. <i>Catalysis Today</i> , 2015, 258, 616-626.	2.2	35
49	Hollow zeolite encapsulated Ni-Pt bimetallics for sintering and coking resistant dry reforming of methane. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16461-16468.	5.2	148
50	Catalytic role of Î ² -Mo ₂ C in DRM catalysts that contain Ni and Mo. <i>Catalysis Today</i> , 2015, 258, 676-683.	2.2	41
51	Enhancement of low-temperature activity over Cu-exchanged zeolite beta from organotemplate-free synthesis for the selective catalytic reduction of NO _x with NH ₃ in exhaust gas streams. <i>Microporous and Mesoporous Materials</i> , 2014, 200, 304-310.	2.2	41
52	Ozone catalytic oxidation of adsorbed benzene over AgMn/HZSM-5 catalysts at room temperature. <i>Catalysis Science and Technology</i> , 2014, 4, 2589-2598.	2.1	35
53	In situ synthesis of Au-Pd bimetallic nanoparticles on amine-functionalized SiO ₂ for the aqueous-phase hydrodechlorination of chlorobenzene. <i>RSC Advances</i> , 2014, 4, 48254-48259.	1.7	15
54	Ozone catalytic oxidation of benzene over AgMn/HZSM-5 catalysts at room temperature: Effects of Mn loading and water content. <i>Chinese Journal of Catalysis</i> , 2014, 35, 1465-1474.	6.9	34

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55	CO Oxidation Activity at Room Temperature over Au/CeO ₂ Catalysts: Disclosure of Induction Period and Humidity Effect. ACS Catalysis, 2014, 4, 3481-3489.	5.5	125
56	FeOx-supported gold catalysts for catalytic removal of formaldehyde at room temperature. Applied Catalysis B: Environmental, 2014, 154-155, 73-81.	10.8	137
57	A comparative study of the catalytic oxidation of HCHO and CO over Mn _{0.75} Co _{2.25} O ₄ catalyst: The effect of moisture. Applied Catalysis B: Environmental, 2014, 160-161, 542-551.	10.8	85
58	Effect of O ₂ /CH ₄ ratio on the optimal specific-energy-input (SEI) for oxidative reforming of biogas in a plasma-shade reactor. Journal of Energy Chemistry, 2013, 22, 681-684.	7.1	15
59	A study of the mechanism of low-temperature SCR of NO with NH ₃ on MnO _x /CeO ₂ . Journal of Molecular Catalysis A, 2013, 378, 82-90.	4.8	108
60	Catalytic removal of formaldehyde at room temperature over supported gold catalysts. Applied Catalysis B: Environmental, 2013, 132-133, 245-255.	10.8	212
61	Three-dimensional ordered mesoporous Co-Mn oxide: A highly active catalyst for "storage-oxidation-cycling" for the removal of formaldehyde. Catalysis Communications, 2013, 36, 52-57.	1.6	71
62	Regeneration of deactivated Au/TiO ₂ nanocatalysts during co oxidation by using in-situ O ₂ and N ₂ /O ₂ plasma. , 2012, , .		0
63	Uniformity, Structure, and Photocatalytic Activity of TiO ₂ Films Deposited by Atmospheric-Pressure Linear Cold Plasma. Chemical Vapor Deposition, 2012, 18, 309-314.	1.4	13
64	Mn _x Co _{3-x} O ₄ solid solution as high-efficient catalysts for low-temperature oxidation of formaldehyde. Catalysis Communications, 2012, 28, 18-22.	1.6	130
65	Catalytic formaldehyde removal by "storage-oxidation-cycling" process over supported silver catalysts. Chemical Engineering Journal, 2012, 200-202, 729-737.	6.6	94
66	Enhanced Low-Temperature Activity of Ag-Promoted Co-ZSM-5 for the CH ₄ -SCR of NO. Catalysis Letters, 2011, 141, 207-212.	1.4	7
67	Plasma Catalytic Oxidation of Stored Benzene in a Cycled Storage-Discharge (CSD) Process: Catalysts, Reactors and Operation Conditions. Plasma Chemistry and Plasma Processing, 2011, 31, 799-810.	1.1	26
68	Carbon dioxide reforming of methane in kilohertz spark-discharge plasma at atmospheric pressure. AIChE Journal, 2011, 57, 2854-2860.	1.8	48
69	Low-concentration formaldehyde removal from air using a cycled storage-discharge (CSD) plasma catalytic process. Chemical Engineering Science, 2011, 66, 3922-3929.	1.9	133
70	The Role of Active Sites of CoH-ZSM-5 Catalysts for the C ₂ H ₄ -SCR of NO. Catalysis Letters, 2010, 135, 182-189.	1.4	4
71	A Carbide Catalyst Effective for the Dry Reforming of Methane at Atmospheric Pressure. ACS Symposium Series, 2010, , 181-196.	0.5	7
72	The Nature of Active Sites of Co/Al ₂ O ₃ for the Selective Catalytic Reduction of NO with C ₂ H ₄ . Catalysis Letters, 2009, 133, 134-141.	1.4	3

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73	Development of a Catalytic Cycle in Molybdenum Carbide Catalyzed NO/CO Reaction. <i>Catalysis Letters</i> , 2009, 130, 239-245.	1.4	10
74	Redox Properties of Cobalt Nitrides for NO Dissociation and Reduction. <i>Catalysis Letters</i> , 2009, 130, 63-71.	1.4	17
75	Low-temperature NO _x Selective Reduction by Hydrocarbons on H-Mordenite Catalysts in Dielectric Barrier Discharge Plasma. <i>Plasma Chemistry and Plasma Processing</i> , 2009, 29, 43-53.	1.1	13
76	In situ DRIFTS study during C ₂ H ₄ -SCR of NO over Co-ZSM-5. <i>Journal of Molecular Catalysis A</i> , 2009, 312, 31-39.	4.8	19
77	Catalytic reduction of NO by CO over NiO/CeO ₂ catalyst in stoichiometric NO/CO and NO/CO/O ₂ reaction. <i>Applied Catalysis B: Environmental</i> , 2008, 81, 141-149.	10.8	136
78	A process for a high yield of aromatics from the oxygen-free conversion of methane: combining plasma with Ni/HZSM-5 catalysts. <i>Green Chemistry</i> , 2007, 9, 647.	4.6	21
79	Pulsed Streamer Discharge Plasma over Ni/HZSM-5 Catalysts for Methane Conversion to Aromatics at Atmospheric Pressure. <i>Plasma Processes and Polymers</i> , 2007, 4, 15-18.	1.6	13
80	Atmospheric Cold Plasmas for Synthesizing Nanocrystalline Anatase TiO ₂ using Dielectric Barrier Discharges. <i>Plasma Processes and Polymers</i> , 2007, 4, 574-582.	1.6	33
81	The reactions and composition of the surface intermediate species in the selective catalytic reduction of NO _x with ethylene over Co-ZSM-5. <i>Research on Chemical Intermediates</i> , 2007, 33, 549-566.	1.3	5
82	High yield of aromatics from CH ₄ in a plasma-followed-by-catalyst (PFC) reactor. <i>AIChE Journal</i> , 2006, 52, 3321-3324.	1.8	6