

Fabing Su

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.

92
papers

4,315
citations

30
h-index

64
g-index

95
ext. papers

4,825
ext. citations

6.2
avg, IF

5.35
L-index

#	Paper	IF	Citations
92	Hierarchically interconnected porous Mn Co ₃ O ₄ spinels for Low-temperature catalytic reduction of NO by CO. <i>Journal of Catalysis</i> , 2022 , 406, 72-86	7.3	1
91	CuO/ZrO ₂ co-promoted by ZnO, Sn, and CuP shows high efficiency for dimethyldichlorosilane production in the Rochow-Müller reaction. <i>Applied Catalysis A: General</i> , 2022 , 636, 118582	5.1	1
90	Ni-Ni ₃ P/SiO ₂ Catalyst for Highly Selective Production of Silicon Tetrachloride via Silicon Hydrochlorination. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 5066-5079	3.9	
89	Impact of oxygen vacancy in CuO-ZnO catalysts on the selectivity of dimethyldichlorosilane monomer in the Rochow reaction. <i>Molecular Catalysis</i> , 2021 , 504, 111453	3.3	2
88	Approach to generating the right active phase in the Direct Synthesis of trimethoxysilanes using the CuCl-Cu ₂ O catalyst. <i>Applied Surface Science</i> , 2021 , 544, 148915	6.7	2
87	Architectural CuO@CuO mesocrystals as superior catalyst for trichlorosilane synthesis. <i>Journal of Colloid and Interface Science</i> , 2021 , 589, 198-207	9.3	5
86	A Review on the Reaction Mechanism of Hydrodesulfurization and Hydrodenitrogenation in Heavy Oil Upgrading. <i>Energy & Fuels</i> , 2021 , 35, 10998-11016	4.1	12
85	Designing and preparing carbon anode materials modified with N and Fe-nanoparticle: Creating the interior electric field to improve their electrochemical performance. <i>Electrochimica Acta</i> , 2021 , 383, 138367	6.7	1
84	In situ generating Cu ₂ O/Cu heterointerfaces on the Cu ₂ O cube surface to enhance interface charge transfer for the Rochow reaction. <i>Catalysis Science and Technology</i> , 2021 , 11, 2202-2213	5.5	3
83	Subnanometric Pt on Cu Nanoparticles Confined in Y-zeolite: Highly-efficient Catalysts for Selective Catalytic Reduction of NO _x by CO. <i>ChemCatChem</i> , 2021 , 13, 1568-1577	5.2	6
82	Single Ir Atoms Anchored on Ordered Mesoporous WO ₃ Are Highly Efficient for the Selective Catalytic Reduction of NO with CO under Oxygen-rich Conditions. <i>ChemCatChem</i> , 2021 , 13, 1834-1846	5.2	7
81	Enhancement of ZIF-8 derived N-doped carbon/silicon composites for anode in lithium ions batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 872, 159712	5.7	4
80	Use of the active-phase Cu ₃ Si alloy as superior catalyst to direct synthesis of trichlorosilane via silicon hydrochlorination. <i>Journal of Solid State Chemistry</i> , 2021 , 304, 122591	3.3	3
79	Yolk-Shell-Structured CuO@NiO@ZnO Trimetallic Oxide Mesocrystal Microspheres as an Efficient Catalyst for Trichlorosilane Production. <i>ChemCatChem</i> , 2020 , 12, 1596-1602	5.2	4
78	Single-atom Sn-Zn pairs in CuO catalyst promote dimethyldichlorosilane synthesis. <i>National Science Review</i> , 2020 , 7, 600-608	10.8	16
77	Hollow core-shell structured Si@NiAl-LDH composite as high-performance anode material in lithium-ion batteries. <i>Electrochimica Acta</i> , 2020 , 331, 135331	6.7	16
76	Recycling the CoMo/AlO catalyst for effectively hydro-upgrading shale oil with high sulfur content and viscosity.. <i>RSC Advances</i> , 2020 , 10, 37287-37298	3.7	4

75	High-performance Si-Containing anode materials in lithium-ion batteries: A superstructure of Si@Co ₃ N/C composite works effectively. <i>Green Energy and Environment</i> , 2020 , 7, 116-116	5.7	4
74	Phase-controlled synthesis of Ni nanocrystals with high catalytic activity in 4-nitrophenol reduction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22143-22154	13	8
73	Structural Design and Synthesis of an SnO ₂ @C@Co-NC Composite as a High-Performance Anode Material for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2020 , 26, 12882-12890	4.8	4
72	A general bottom-up synthesis of CuO-based trimetallic oxide mesocrystal superstructures for efficient catalytic production of trichlorosilane. <i>Nano Research</i> , 2020 , 13, 2819-2827	10	10
71	Recent Advances in Rochow-Müller Process Research: Driving to Molecular Catalysis and to A More Sustainable Silicone Industry. <i>ChemCatChem</i> , 2019 , 11, 2757-2779	5.2	10
70	ZnO supported on Cu ₂ O{1 0 0} enhances charge transfer in dimethyldichlorosilane synthesis. <i>Journal of Catalysis</i> , 2019 , 374, 284-296	7.3	12
69	Highly Dispersed Ni Nanocatalysts Derived from NiMnAl-Hydrotalcites as High-Performing Catalyst for Low-Temperature Syngas Methanation. <i>Catalysts</i> , 2019 , 9, 282	4	10
68	Syngas Methanation over Spray-Granulated Ni/Al ₂ O ₃ Catalyst in a Laboratory Transport-Bed Reactor. <i>Chemical Engineering and Technology</i> , 2019 , 42, 129-136	2	1
67	Impact of the Cu ₂ O microcrystal planes on active phase formation in the Rochow reaction and an experimental and theoretical understanding of the reaction mechanism. <i>Journal of Catalysis</i> , 2018 , 361, 73-83	7.3	14
66	Morphology-dependent catalytic properties of nanocupric oxides in the Rochow reaction. <i>Nano Research</i> , 2018 , 11, 804-819	10	17
65	Controlled Synthesis of Heterostructured SnO ₂ -CuO Composite Hollow Microspheres as Efficient Cu-Based Catalysts for the Rochow Reaction. <i>Catalysts</i> , 2018 , 8, 144	4	2
64	Promoting effect of In ₂ O ₃ on CuO for the Rochow reaction: The formation of PN junctions at the hetero-interfaces. <i>Journal of Catalysis</i> , 2017 , 348, 110-124	7.3	16
63	Hierarchical zinc-copper oxide hollow microspheres as active Rochow reaction catalysts: The formation and effect of charge transferable interfaces. <i>Journal of Catalysis</i> , 2017 , 348, 233-245	7.3	18
62	Ordered Mesoporous NiBeAl Catalysts for CO Methanation with Enhanced Activity and Resistance to Deactivation. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 9809-9820	3.9	53
61	Diffusion-controlled synthesis of Cu-based for the Rochow reaction. <i>Science China Materials</i> , 2017 , 60, 1215-1226	7.1	5
60	Rambutan-like hierarchically heterostructured CeO ₂ -CuO hollow microspheres: Facile hydrothermal synthesis and applications. <i>Nano Research</i> , 2017 , 10, 381-396	10	22
59	Honeycomb-like CuO/ZnO hybrid nanocatalysts prepared from solid waste generated in the organosilane industry. <i>RSC Advances</i> , 2016 , 6, 59737-59748	3.7	6
58	Highly stable Ni/SiC catalyst modified by Al ₂ O ₃ for CO methanation reaction. <i>RSC Advances</i> , 2016 , 6, 9631-9639	3.7	28

57	Porous (CuO) _x ZnO hollow spheres as efficient Rochow reaction catalysts. <i>CrystEngComm</i> , 2016 , 18, 2808-2819	3	18
56	Anti-sintering ZrO ₂ -modified Ni/Al ₂ O ₃ catalyst for CO methanation. <i>RSC Advances</i> , 2016 , 6, 20979-20986	6	20
55	Novel leaflike Cu ₂ O nanosheets as highly efficient catalysts for the Rochow reaction. <i>Journal of Catalysis</i> , 2016 , 337, 1-13	7-3	35
54	CO methanation on ordered mesoporous Ni ₂ /Al catalysts: Effects of the catalyst structure and Cr promoter on the catalytic properties. <i>Journal of Catalysis</i> , 2016 , 337, 221-232	7-3	93
53	SiO ₂ -stabilized Ni/t-ZrO ₂ catalysts with ordered mesopores: one-pot synthesis and their superior catalytic performance in CO methanation. <i>Catalysis Science and Technology</i> , 2016 , 6, 3529-3543	5-5	17
52	Carbon-coated porous silicon composites as high performance Li-ion battery anode materials: can the production process be cheaper and greener?. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 552-560	13	75
51	One-dimensional Cu-based catalysts with layered Cu ₂ O/CuO walls for the Rochow reaction. <i>Nano Research</i> , 2016 , 9, 1377-1392	10	31
50	V-promoted Ni/Al ₂ O ₃ catalyst for synthetic natural gas (SNG) production: Catalyst preparation methodologies. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 1599-1605	2.8	14
49	Heterojunctions generated in SnO ₂ /CuO nanocatalysts for improved catalytic property in the Rochow reaction. <i>RSC Advances</i> , 2015 , 5, 63355-63362	3-7	15
48	Synergistic effect in bimetallic copper/silver (Cu _x Ag) nanoparticles enhances silicon conversion in Rochow reaction. <i>RSC Advances</i> , 2015 , 5, 54364-54371	3-7	30
47	Recent advances in methanation catalysts for the production of synthetic natural gas. <i>RSC Advances</i> , 2015 , 5, 22759-22776	3-7	341
46	Attrition-resistant Ni/Mg/Al ₂ O ₃ catalyst for fluidized bed syngas methanation. <i>Catalysis Science and Technology</i> , 2015 , 5, 3119-3129	5-5	11
45	Yolk bishell Mn(x)Co(1-x)Fe ₂ O ₄ hollow microspheres and their embedded form in carbon for highly reversible lithium storage. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6300-9	9-5	57
44	Preparation of high-surface-area Ni/Al ₂ O ₃ catalysts for improved CO methanation. <i>RSC Advances</i> , 2015 , 5, 7539-7546	3-7	21
43	Necessity of moderate metal-support interaction in Ni/Al ₂ O ₃ for syngas methanation at high temperatures. <i>RSC Advances</i> , 2015 , 5, 10187-10196	3-7	17
42	Facile synthesis of ordered mesoporous Ni ₂ /Al catalysts with high hydrothermal stability for CO methanation. <i>RSC Advances</i> , 2015 , 5, 84186-84194	3-7	10
41	Controllable wet synthesis of multicomponent copper-based catalysts for Rochow reaction. <i>RSC Advances</i> , 2015 , 5, 73011-73019	3-7	13
40	One-pot hydrothermal growth of raspberry-like CeO ₂ on CuO microsphere as copper-based catalyst for Rochow reaction. <i>Applied Surface Science</i> , 2015 , 359, 120-129	6-7	17

39	High-performance nickel manganese ferrite/oxidized graphene composites as flexible and binder-free anodes for Li-ion batteries. <i>RSC Advances</i> , 2015 , 5, 40018-40025	3.7	8
38	A Co ₃ O ₄ @CeO ₂ functionalized SBA-15 monolith with a three-dimensional framework improves NO _x -assisted soot combustion. <i>RSC Advances</i> , 2015 , 5, 26815-26822	3.7	34
37	Low-Cost Synthesis of Porous Silicon via Ferrite-Assisted Chemical Etching and Their Application as Si-Based Anodes for Li-Ion Batteries. <i>Advanced Electronic Materials</i> , 2015 , 1, 1400059	6.4	14
36	Preparation of porous silicon/carbon microspheres as high performance anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5859-5865	13	49
35	One-pot catalytic conversion of methanol to C ₆ -C ₂₁ hydrocarbons over bi-functional MFe ₂ O ₄ (M = Ni, Zn, Mn, Co) catalysts. <i>RSC Advances</i> , 2015 , 5, 13374-13384	3.7	1
34	Preparation of porous carbon microspheres anode materials from fine needle coke powders for lithium-ion batteries. <i>RSC Advances</i> , 2015 , 5, 11115-11123	3.7	29
33	Multiple transition metal oxide mesoporous nanospheres with controllable composition for lithium storage. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5041-5050	13	27
32	Controllably oxidized copper flakes as multicomponent copper-based catalysts for the Rochow reaction. <i>RSC Advances</i> , 2014 , 4, 7826	3.7	16
31	Graphitized porous carbon microspheres assembled with carbon black nanoparticles as improved anode materials in Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10161	13	71
30	Highly active and stable Ni/Al ₂ O ₃ catalysts selectively deposited with CeO ₂ for CO methanation. <i>RSC Advances</i> , 2014 , 4, 16094-16103	3.7	81
29	Intercorrelation of structure and performance of Ni/Mg/Al ₂ O ₃ catalysts prepared with different methods for syngas methanation. <i>Catalysis Science and Technology</i> , 2014 , 4, 472-481	5.5	44
28	Scalable synthesis of porous silicon/carbon microspheres as improved anode materials for Li-ion batteries. <i>RSC Advances</i> , 2014 , 4, 43114-43120	3.7	27
27	MnO _x @CeO ₂ supported on a three-dimensional and networked SBA-15 monolith for NO _x -assisted soot combustion. <i>RSC Advances</i> , 2014 , 4, 14879	3.7	40
26	Enhanced catalytic performances of Ni/Al ₂ O ₃ catalyst via addition of V ₂ O ₃ for CO methanation. <i>Applied Catalysis A: General</i> , 2014 , 488, 37-47	5.1	94
25	Ni _{0.33} Mn _{0.33} Co _{0.33} Fe ₂ O ₄ nanoparticles anchored on oxidized carbon nanotubes as advanced anode materials in Li-ion batteries. <i>RSC Advances</i> , 2014 , 4, 33769-33775	3.7	4
24	Synthesis of porous microspheres composed of graphitized carbon@amorphous silicon/carbon layers as high performance anode materials for Li-ion batteries. <i>RSC Advances</i> , 2014 , 4, 55010-55015	3.7	6
23	Partially Reduced CuO Nanoparticles as Multicomponent Cu-Based Catalysts for the Rochow Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 6662-6668	3.9	19
22	Effect of nickel nanoparticle size in Ni/Al ₂ O ₃ on CO methanation reaction for the production of synthetic natural gas. <i>Catalysis Science and Technology</i> , 2013 , 3, 2009	5.5	88

21	Nickel catalysts supported on calcium titanate for enhanced CO methanation. <i>Catalysis Science and Technology</i> , 2013 , 3, 490-499	5.5	71
20	Template preparation of high-surface-area barium hexaaluminate as nickel catalyst support for improved CO methanation. <i>RSC Advances</i> , 2013 , 3, 18156	3.7	31
19	Growth of silicon/carbon microrods on graphite microspheres as improved anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4483	13	65
18	Mesoporous CoFe ₂ O ₄ nanospheres cross-linked by carbon nanotubes as high-performance anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7444	13	110
17	Flower-like ZnO grown on urchin-like CuO microspheres for catalytic synthesis of dimethyldichlorosilane. <i>RSC Advances</i> , 2013 , 3, 9794	3.7	20
16	Solvothermal synthesis of copper (I) chloride microcrystals with different morphologies as copper-based catalysts for dimethyldichlorosilane synthesis. <i>Journal of Colloid and Interface Science</i> , 2013 , 404, 16-23	9.3	18
15	A thermodynamic analysis of methanation reactions of carbon oxides for the production of synthetic natural gas. <i>RSC Advances</i> , 2012 , 2, 2358	3.7	472
14	Well-defined hydroxyapatite/polycation nanohybrids via surface-initiated atom transfer radical polymerization for biomedical applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9358		13
13	Nanostructured trimetallic Pt/FeRuC, Pt/NiRuC, and Pt/CoRuC catalysts for methanol electrooxidation. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13643		59
12	Nickel Catalysts Supported on Barium Hexaaluminate for Enhanced CO Methanation. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 10345-10353	3.9	78
11	Shape-controlled synthesis of Cu ₂ O microparticles and their catalytic performances in the Rochow reaction. <i>Catalysis Science and Technology</i> , 2012 , 2, 1207	5.5	48
10	Urchin-like ZnO microspheres synthesized by thermal decomposition of hydrozincite as a copper catalyst promoter for the Rochow reaction. <i>RSC Advances</i> , 2012 , 2, 4164	3.7	22
9	Preparation of hierarchical dandelion-like CuO microspheres with enhanced catalytic performance for dimethyldichlorosilane synthesis. <i>Catalysis Science and Technology</i> , 2012 , 2, 1953	5.5	54
8	Enhanced Investigation of CO Methanation over Ni/Al ₂ O ₃ Catalysts for Synthetic Natural Gas Production. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 4875-4886	3.9	222
7	Flower-like CuO microspheres with enhanced catalytic performance for dimethyldichlorosilane synthesis. <i>RSC Advances</i> , 2012 , 2, 2254	3.7	38
6	Facile solvothermal synthesis of porous cubic Cu microparticles as copper catalysts for Rochow reaction. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 1295-302	9.5	43
5	Synthesis of network reduced graphene oxide in polystyrene matrix by a two-step reduction method for superior conductivity of the composite. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17254		197
4	Nitrogen-containing microporous carbon nanospheres with improved capacitive properties. <i>Energy and Environmental Science</i> , 2011 , 4, 717-724	35.4	789

3	Aerobic Oxidation of Benzyl Alcohol over Activated Carbon Supported Manganese and Vanadium Catalysts: Effect of Surface Oxygen-Containing Groups. <i>Catalysis Letters</i> , 2011 , 141, 149-157	2.8	17
2	General Synthesis and Gas-Sensing Properties of Multiple-Shell Metal Oxide Hollow Microspheres. <i>Angewandte Chemie</i> , 2011 , 123, 2790-2793	3.6	142
1	In-situ growth of heterophase Ni nanocrystals on graphene for enhanced catalytic reduction of 4-nitrophenol. <i>Nano Research</i> , 1	10	1