

XiangLan Xu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5523992/xianglan-xu-publications-by-citations.pdf>

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

66
papers

1,356
citations

24
h-index

35
g-index

74
ext. papers

1,750
ext. citations

5.5
avg, IF

4.79
L-index

#	Paper	IF	Citations
66	Constructing La ₂ B ₂ O ₇ (B = Ti, Zr, Ce) Compounds with Three Typical Crystalline Phases for the Oxidative Coupling of Methane: The Effect of Phase Structures, Superoxide Anions, and Alkalinity on the Reactivity. <i>ACS Catalysis</i> , 2019 , 9, 4030-4045	13.1	74
65	Ni ₂ Co/Al ₂ O ₃ Bimetallic Catalysts for CH ₄ Steam Reforming: Elucidating the Role of Co for Improving Coke Resistance. <i>ChemCatChem</i> , 2014 , 6, 3377-3386	5.2	61
64	Nickel-Supported on La ₂ Sn ₂ O ₇ and La ₂ Zr ₂ O ₇ Pyrochlores for Methane Steam Reforming: Insight into the Difference between Tin and Zirconium in the B Site of the Compound. <i>ChemCatChem</i> , 2014 , 6, 3366-3376	5.2	58
63	Improving water tolerance of Co ₃ O ₄ by SnO ₂ addition for CO oxidation. <i>Applied Surface Science</i> , 2015 , 355, 1254-1260	6.7	55
62	Tin Modification on Ni/Al ₂ O ₃ : Designing Potent Coke-Resistant Catalysts for the Dry Reforming of Methane. <i>ChemCatChem</i> , 2014 , 6, 2095-2104	5.2	54
61	Effects of La, Ce, and Y Oxides on SnO ₂ Catalysts for CO and CH ₄ Oxidation. <i>ChemCatChem</i> , 2013 , 5, 2025-2036	5.2	54
60	Developing reactive catalysts for low temperature oxidative coupling of methane: On the factors deciding the reaction performance of Ln ₂ Ce ₂ O ₇ with different rare earth A sites. <i>Applied Catalysis A: General</i> , 2018 , 552, 117-128	5.1	52
59	High surface area La ₂ Sn ₂ O ₇ pyrochlore as a novel, active and stable support for Pd for CO oxidation. <i>Catalysis Science and Technology</i> , 2015 , 5, 2270-2281	5.5	50
58	Methane Dry Reforming over Coke-Resistant Mesoporous Ni-Al ₂ O ₃ Catalysts Prepared by Evaporation-Induced Self-Assembly Method. <i>ChemCatChem</i> , 2015 , 7, 3753-3762	5.2	48
57	Study on RuO ₂ /SnO ₂ : Novel and Active Catalysts for CO and CH ₄ Oxidation. <i>ChemCatChem</i> , 2012 , 4, 1122-1132	5.2	47
56	Ni/Ln ₂ Zr ₂ O ₇ (Ln = La, Pr, Sm and Y) catalysts for methane steam reforming: the effects of A site replacement. <i>Catalysis Science and Technology</i> , 2017 , 7, 2729-2743	5.5	46
55	SnO ₂ promoted by alkali metal oxides for soot combustion: The effects of surface oxygen mobility and abundance on the activity. <i>Applied Surface Science</i> , 2018 , 435, 406-414	6.7	46
54	New insights into CO ₂ methanation mechanisms on Ni/MgO catalysts by DFT calculations: Elucidating Ni and MgO roles and support effects. <i>Journal of CO₂ Utilization</i> , 2019 , 33, 55-63	7.6	36
53	SnO ₂ nano-rods with superior CO oxidation performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5616-5619	5.619	33
52	Facile preparation of mesoporous Cu ₂ Bn solid solutions as active catalysts for CO oxidation. <i>RSC Advances</i> , 2015 , 5, 25755-25764	3.7	32
51	Optimizing the Reaction Performance of La ₂ Ce ₂ O ₇ -Based Catalysts for Oxidative Coupling of Methane (OCM) at Lower Temperature by Lattice Doping with Ca Cations. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 183-194	2.3	32
50	Preparation and characterization of SnO ₂ catalysts for CO and CH ₄ oxidation. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2012 , 106, 113-125	1.6	31

49	Synthesis of a Highly Active and Stable Nickel-Embedded Alumina Catalyst for Methane Dry Reforming: On the Confinement Effects of Alumina Shells for Nickel Nanoparticles. <i>ChemCatChem</i> , 2017 , 9, 3563-3571	5.2	30
48	The distributions of alkaline earth metal oxides and their promotional effects on Ni/CeO ₂ for CO ₂ methanation. <i>Journal of CO₂ Utilization</i> , 2020 , 38, 113-124	7.6	30
47	Promotional effects of samarium on Co ₃ O ₄ spinel for CO and CH ₄ oxidation. <i>Journal of Rare Earths</i> , 2014 , 32, 159-169	3.7	29
46	Elucidating the promotional effects of niobia on SnO ₂ for CO oxidation: developing an XRD extrapolation method to measure the lattice capacity of solid solutions. <i>Catalysis Science and Technology</i> , 2016 , 6, 5280-5291	5.5	28
45	SnO ₂ Based Catalysts with Low-Temperature Performance for Oxidative Coupling of Methane: Insight into the Promotional Effects of Alkali-Metal Oxides. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 1787-1799	2.3	26
44	Tuning SnO ₂ Surface Area for Catalytic Toluene Deep Oxidation: On the Inherent Factors Determining the Reactivity. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14052-14063	3.9	26
43	Rutile RuO ₂ dispersion on rutile and anatase TiO ₂ supports: The effects of support crystalline phase structure on the dispersion behaviors of the supported metal oxides. <i>Catalysis Today</i> , 2020 , 339, 220-232	5.3	25
42	Thermally stable ultra-small Pd nanoparticles encapsulated by silica: elucidating the factors determining the inherent activity of noble metal catalysts. <i>Catalysis Science and Technology</i> , 2016 , 6, 5405-5414	5.5	24
41	Ni/La ₂ O ₃ Catalysts for Dry Reforming of Methane: Insights into the Factors Improving the Catalytic Performance. <i>ChemCatChem</i> , 2019 , 11, 2887-2899	5.2	22
40	Sn-MFI as active, sulphur and water tolerant catalysts for selective reduction of NO _x . <i>RSC Advances</i> , 2015 , 5, 42789-42797	3.7	21
39	A ₂ B ₂ O ₇ pyrochlore compounds: A category of potential materials for clean energy and environment protection catalysis. <i>Journal of Rare Earths</i> , 2020 , 38, 840-849	3.7	20
38	Insights into CO ₂ methanation mechanism on cubic ZrO ₂ supported Ni catalyst via a combination of experiments and DFT calculations. <i>Fuel</i> , 2021 , 283, 118867	7.1	20
37	The influence on the structural and redox property of CuO by using different precursors and precipitants for catalytic soot combustion. <i>Applied Surface Science</i> , 2018 , 453, 204-213	6.7	20
36	Tetragonal Rutile SnO ₂ Solid Solutions for NO _x -SCR by NH ₃ : Tailoring the Surface Mobile Oxygen and Acidic Sites by Lattice Doping. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10315-10326	3.9	19
35	Identifying Surface Active Sites of SnO ₂ : Roles of Surface O ₂ ⁻ Anions and Acidic Species Played for Toluene Deep Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 18569-18581	3.9	18
34	Facile Cr ³⁺ -Doping Strategy Dramatically Promoting Ru/CeO ₂ for Low-Temperature CO ₂ Methanation: Unraveling the Roles of Surface Oxygen Vacancies and Hydroxyl Groups. <i>ACS Catalysis</i> , 2021 , 11, 5762-5775	13.1	17
33	SnO ₂ -based solid solutions for CH ₄ deep oxidation: Quantifying the lattice capacity of SnO ₂ using an X-ray diffraction extrapolation method. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 1293-1302	11.3	17
32	Mesoporous Y ₂ Sn ₂ O ₇ pyrochlore with exposed (111) facets: an active and stable catalyst for CO oxidation. <i>RSC Advances</i> , 2016 , 6, 71791-71799	3.7	12

31	Investigation of lattice capacity effect on Cu ²⁺ -doped SnO ₂ solid solution catalysts to promote reaction performance toward NO-SCR with NH ₃ . <i>Chinese Journal of Catalysis</i> , 2020 , 41, 877-888	11.3	12
30	Stable CuO/La ₂ Sn ₂ O ₇ catalysts for soot combustion: Study on the monolayer dispersion behavior of CuO over a La ₂ Sn ₂ O ₇ pyrochlore support. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 396-408	11.3	11
29	Treating Copper(II) Oxide Nanoflowers with Hydrogen Peroxide: A Novel and Facile Strategy To Prepare High-Performance Copper(II) Oxide Nanosheets with Exposed (1 1 0) Facets. <i>ChemCatChem</i> , 2016 , 8, 3714-3719	5.2	10
28	The promotional effects of plasma treating on Ni/Y ₂ Ti ₂ O ₇ for steam reforming of methane (SRM): Elucidating the NiO-support interaction and the states of the surface oxygen anions. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 4556-4569	6.7	10
27	Modifying the Surface of BaAl ₂ O ₇ with Y ₂ Sn ₂ O ₇ Pyrochlore: Monolayer Dispersion Behaviour of Composite Oxides. <i>ChemPhysChem</i> , 2017 , 18, 1533-1540	3.2	8
26	O ₂ adsorption on MO ₂ (M=Ru, Ir, Sn) films supported on rutile TiO ₂ (110) by DFT calculations: Probing the nature of metal oxide-support interaction. <i>Journal of Colloid and Interface Science</i> , 2016 , 473, 100-11	9.3	8
25	Pd Supported on SnO ₂ -Al ₂ O ₃ Composite Supports for CO Oxidation Designing Thermally Stable and Active Supports for Pd. <i>Zeitschrift Fur Physikalische Chemie</i> , 2014 , 228, 27-48	3.1	8
24	Mesoporous High-Surface-Area Copper(II) In Mixed-Oxide Nanorods: Remarkable for Carbon Monoxide Oxidation. <i>ChemCatChem</i> , 2016 , 8, 2329-2334	5.2	8
23	Superior 3DOM Y ₂ Zr ₂ O ₇ supports for Ni to fabricate highly active and selective catalysts for CO ₂ methanation. <i>Fuel</i> , 2021 , 293, 120460	7.1	7
22	Tuning Ni ³⁺ quantity of NiO via doping of cations with varied valence states: The key role of Ni ³⁺ on the reactivity. <i>Applied Surface Science</i> , 2021 , 550, 149316	6.7	6
21	Promoting the surface active sites of defect BaSnO ₃ perovskite with BaBr ₂ for the oxidative coupling of methane. <i>Catalysis Today</i> , 2021 , 374, 29-37	5.3	6
20	CO oxidation on PdO catalysts with perfect and defective rutile-TiO ₂ as supports: Elucidating the role of oxygen vacancy in support by DFT calculations. <i>Applied Surface Science</i> , 2017 , 401, 49-56	6.7	5
19	The Influence of RuO ₂ Distribution and Dispersion on the Reactivity of RuO ₂ /SnO ₂ Composite Oxide Catalysts Probed by CO Oxidation. <i>ChemCatChem</i> , 2019 , 11, 2473-2483	5.2	5
18	Tailoring Active O ₂ ²⁻ and O ₂ ¹⁻ Anions on a ZnO Surface with the Addition of Different Alkali Metals Probed by CO Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 9382-9392	3.9	4
17	Band Gap as a Novel Descriptor for the Reactivity of 2D Titanium Dioxide and its Supported Pt Single Atom for Methane Activation. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2484-2488	6.4	4
16	The enhancement effects of BaX ₂ (X = F, Cl, Br) on SnO ₂ -based catalysts for the oxidative coupling of methane (OCM). <i>Catalysis Today</i> , 2021 , 364, 35-45	5.3	4
15	A DFT study of (WO ₃) ₃ nanoclusters adsorption on defective MgO ultrathin films on Ag(001). <i>RSC Advances</i> , 2017 , 7, 54091-54099	3.7	3
14	Dissecting La ₂ Ce ₂ O ₇ catalyst to unravel the origin of the surface active sites devoting to its performance for oxidative coupling of methane (OCM). <i>Catalysis Today</i> , 2021 ,	5.3	3

13	Band-Gap Engineering: A New Tool for Tailoring the Activity of Semiconducting Oxide Catalysts for CO Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 9188-9196	6.4	3
12	Study on the Structure-Reactivity Relationship of LnMn ₂ O ₅ (Ln = La, Pr, Sm, Y) Mullite Catalysts for Soot Combustion. <i>Chemistry Africa</i> , 2020 , 3, 695-701	2.2	2
11	NiO supported on Y ₂ Ti ₂ O ₇ pyrochlore for CO ₂ reforming of CH ₄ : insight into the monolayer dispersion threshold effect on coking resistance. <i>Catalysis Science and Technology</i> , 2020 , 10, 8396-8409	5.5	2
10	Metallic Ag Confined on SnO ₂ Surface for Soot Combustion: the Influence of Ag Distribution and Dispersion on the Reactivity. <i>ChemCatChem</i> , 2021 , 13, 2222-2233	5.2	2
9	Facile Hydrothermal Synthesis of Sn-Mn Mixed Oxide Nano-rods with Exposed (110) Facets and Remarkable Catalytic Performance. <i>ChemistrySelect</i> , 2017 , 2, 6364-6369	1.8	1
8	Interface-dependent activity and selectivity for CO ₂ hydrogenation on Ni/CeO ₂ and Ni/Ce _{0.9} Sn _{0.1} O _x . <i>Fuel</i> , 2022 , 316, 123191	7.1	1
7	A+1Nb ₅ +O ₃ (A = Li, Na, K) Perovskites with Different Fine Structures for Oxidative Coupling of Methane: Tracing the Crystalline Phase Effect on the Surface Active Sites. <i>Journal of Physical Chemistry C</i> ,	3.8	1
6	Influence of Cesium Loading on Oxidative Coupling of Methane (OCM) over Cs/SnO ₂ Catalysts. <i>Chemistry Africa</i> , 2020 , 3, 687-694	2.2	1
5	Design of strontium stannate perovskites with different fine structures for the oxidative coupling of methane (OCM): Interpreting the functions of surface oxygen anions, basic sites and the structure-activity relationship. <i>Journal of Catalysis</i> , 2021 ,	7.3	1
4	H ₂ adsorption and dissociation on PdO(101) films supported on rutile TiO ₂ (110) facet: elucidating the support effect by DFT calculations. <i>Journal of Molecular Modeling</i> , 2016 , 22, 204	2	1
3	Unraveling the Intrinsic Reasons Promoting the Reactivity of ZnAl ₂ O ₄ Spinel by Fe and Co for CO Oxidation. <i>Catalysis Surveys From Asia</i> , 2021 , 25, 180-191	2.8	1
2	Ni/LaBO ₃ (B = Al, Cr, Fe) Catalysts for Steam Reforming of Methane (SRM): On the Interaction Between Ni and LaBO ₃ Perovskites with Differed Fine Structures. <i>Catalysis Surveys From Asia</i> , 2021 , 25, 424	2.8	1
1	Unraveling the Principles of Lattice Disorder Degree of Bi ₂ B ₂ O ₇ (B = Sn, Ti, Zr) Compounds on Activating Gas Phase O ₂ for Soot Combustion. <i>ACS Catalysis</i> , 2021 , 11, 12112-12122	13.1	1