Yanbing Guo

List of Publications by Year
in descending order

55 papers	5,162 citations	172386 29 h-index	138417 58 g-index
59 all docs	59 docs citations	59 times ranked	5554 citing authors

#	Article	IF	Citations
1	Architecture of graphdiyne nanoscale films. Chemical Communications, 2010, 46, 3256.	2.2	2,210
2	Oxygen Vacancy Promoted O₂ Activation over Perovskite Oxide for Low-Temperature CO Oxidation. ACS Catalysis, 2019, 9, 9751-9763.	5.5	296
3	Low temperature propane oxidation over Co3O4 based nano-array catalysts: Ni dopant effect, reaction mechanism and structural stability. Applied Catalysis B: Environmental, 2016, 180, 150-160.	10.8	174
4	Monolithically Integrated Spinel M_{<i>x</i>}Co_{3âˆ’<i>x</i>}O₄ (M=Co, Ni, Zn) Nanoarray Catalysts: Scalable Synthesis and Cation Manipulation for Tunable Lowâ€Temperature CH₄ and CO Oxidation. Angewandte Chemie - International Edition, 2014, 53, 7223-7227.	7.2	170
5	Light-Controlled Organic/Inorganic Pâˆ’N Junction Nanowires. Journal of the American Chemical Society, 2008, 130, 9198-9199.	6.6	162
6	Interfacial sp Câ€“Oâ€“Mo Hybridization Originated High-Current Density Hydrogen Evolution. Journal of the American Chemical Society, 2021, 143, 8720-8730.	6.6	152
7	Assembled Organic/Inorganic pâˆ’n Junction Interface and Photovoltaic Cell on a Single Nanowire. Journal of Physical Chemistry Letters, 2010, 1, 327-330.	2.1	134
8	Selfâ€Assembly of Functional Molecules into 1D Crystalline Nanostructures. Advanced Materials, 2015, 27, 985-1013.	11.1	130
9	Adjacent single-atom irons boosting molecular oxygen activation on MnO2. Nature Communications, 2021, 12, 5422.	5.8	114
10	Activating low-temperature diesel oxidation by single-atom Pt on TiO2 nanowire array. Nature Communications, 2020, 11, 1062.	5.8	90
11	Robust 3-D configurated metal oxide nano-array based monolithic catalysts with ultrahigh materials usage efficiency and catalytic performance tunability. Nano Energy, 2013, 2, 873-881.	8.2	76
12	Nanostructured MoO3 for Efficient Energy and Environmental Catalysis. Molecules, 2020, 25, 18.	1.7	74
13	Nonprecious catalytic honeycombs structured with three dimensional hierarchical Co3O4 nano-arrays for high performance nitric oxide oxidation. Journal of Materials Chemistry A, 2013, 1, 9897.	5.2	73
14	Nanostructured perovskite oxides as promising substitutes of noble metals catalysts for catalytic combustion of methane. Chinese Chemical Letters, 2018, 29, 252-260.	4.8	73
15	Oxygen Vacancies and Lewis Acid Sites Synergistically Promoted Catalytic Methane Combustion over Perovskite Oxides. Environmental Science & Technology, 2021, 55, 9243-9254.	4.6	71
16	Neighboring sp-Hybridized Carbon Participated Molecular Oxygen Activation on the Interface of Sub-nanocluster CuO/Graphdiyne. Journal of the American Chemical Society, 2022, 144, 4942-4951.	6.6	67
17	Copper-based non-precious metal heterogeneous catalysts for environmental remediation. Chinese Journal of Catalysis, 2018, 39, 566-582.	6.9	63
18	Hierarchically nanostructured materials for sustainable environmental applications. Frontiers in Chemistry, 2013, 1, 18.	1.8	62

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19	Elucidating the Nature of the Cu(I) Active Site in CuO/TiO₂ for Excellent Low-Temperature CO Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 7091-7101.	4.0	51
20	Nano-array based monolithic catalysts: Concept, rational materials design and tunable catalytic performance. Catalysis Today, 2015, 258, 441-453.	2.2	48
21	Engineering the Nucleophilic Active Oxygen Species in CuTiO_{<i>x</i>} for Efficient Low-Temperature Propene Combustion. Environmental Science & Technology, 2020, 54, 15476-15488.	4.6	48
22	Field Emission and Electrical Switching Properties of Large-Area CuTCNQ Nanotube Arrays. Crystal Growth and Design, 2010, 10, 237-243.	1.4	45
23	The promoting mechanism of in situ Zr doping on the hydrothermal stability of Fe-SSZ-13 catalyst for NH3-SCR reaction. Applied Catalysis B: Environmental, 2021, 286, 119816.	10.8	45
24	Solar-driven efficient methane catalytic oxidation over epitaxial ZnO/La0.8Sr0.2CoO3 heterojunctions. Applied Catalysis B: Environmental, 2020, 265, 118469.	10.8	44
25	Oxygen Vacancy-Governed Opposite Catalytic Performance for C₃H₆ and C₃H₈ Combustion: The Effect of the Pt Electronic Structure and Chemisorbed Oxygen Species. Environmental Science & Technology, 2022, 56, 3245-3257.	4.6	44
26	Scalable Integration of Highly Uniform Mn_{<i>x</i>}Co_{3âˆ'<i>x</i>}O₄ Nanosheet Array onto Ceramic Monolithic Substrates for Lowâ€Temperature Propane Oxidation. ChemCatChem, 2017, 9, 4112-4119.	1.8	36
27	A Review on the Impact of SO₂ on the Oxidation of NO, Hydrocarbons, and CO in Diesel Emission Control Catalysis. ACS Catalysis, 2021, 11, 12446-12468.	5.5	36
28	Efficient Strategy to Regenerate Phosphorus-Poisoned Cu-SSZ-13 Catalysts for the NH₃-SCR of NO<i>_x</i>: The Deactivation and Promotion Mechanism of Phosphorus. ACS Catalysis, 2021, 11, 12963-12976.	5.5	36
29	ZnO/perovskite coreâ€"shell nanorod array based monolithic catalysts with enhanced propane oxidation and material utilization efficiency at low temperature. Catalysis Today, 2015, 258, 549-555.	2.2	35
30	Insight into solid-state ion-exchanged Cu-based zeolite (SSZ-13, SAPO-18, and SAPO-34) catalysts for the NH3-SCR reaction: The promoting role of NH4-form zeolite substrates. Applied Surface Science, 2022, 571, 151328.	3.1	33
31	Structure and magnetic properties of three-dimensional (La,Sr)MnO3 nanofilms on ZnO nanorod arrays. Applied Physics Letters, 2011, 98, 123105.	1.5	32
32	Insight into SO2 poisoning over Cu-SAPO-18 used for NH3-SCR. Microporous and Mesoporous Materials, 2020, 303, 110294.	2.2	30
33	Synthesis, characterization and CO oxidation of TiO2/(La,Sr)MnO3 composite nanorod array. Catalysis Today, 2012, 184, 178-183.	2.2	27
34	Mechanical-Agitation-Assisted Growth of Large-Scale and Uniform ZnO Nanorod Arrays within 3D Multichannel Monolithic Substrates. Crystal Growth and Design, 2013, 13, 3657-3664.	1.4	27
35	Nano-array integrated monolithic devices: toward rational materials design and multi-functional performance by scalable nanostructures assembly. CrystEngComm, 2016, 18, 2980-2993.	1.3	23
36	Three dimensional koosh ball nanoarchitecture with a tunable magnetic core, fluorescent nanowire shell and enhanced photocatalytic property. Journal of Materials Chemistry, 2012, 22, 6862.	6.7	22

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37	Molecular O₂ Activation over Cu(I)-Mediated Câ%‰¡N Bond for Low-Temperature CO Oxidation. ACS Applied Materials & Interfaces, 2018, 10, 17167-17174.	4.0	22
38	Rational design, synthesis and evaluation of ZnO nanorod array supported Pt:La0.8Sr0.2MnO3 lean NOx traps. Applied Catalysis B: Environmental, 2018, 236, 348-358.	10.8	22
39	Graphdiyne: an emerging two-dimensional (2D) carbon material for environmental remediation. Environmental Science: Nano, 2021, 8, 1863-1885.	2.2	22
40	Cuâ€Decorated ZnO Nanorod Array Integrated Structured Catalysts for Lowâ€Pressure CO₂ Hydrogenation to Methanol. Advanced Materials Interfaces, 2018, 5, 1700730.	1.9	20
41	Interfacial structure-governed SO₂ resistance of Cu/TiO₂ catalysts in the catalytic oxidation of CO. Catalysis Science and Technology, 2020, 10, 1661-1674.	2.1	20
42	Single crystalline brookite titanium dioxide nanorod arrays rooted on ceramic monoliths: a hybrid nanocatalyst support with ultra-high surface area and thermal stability. CrystEngComm, 2013, 15, 8345.	1.3	19
43	Molecular Insights into NO-Promoted Sulfate Formation on Model TiO₂ Nanoparticles with Different Exposed Facets. Environmental Science & Technology, 2018, 52, 14110-14118.	4.6	19
44	Understanding low temperature oxidation activity of nanoarray-based monolithic catalysts: from performance observation to structural and chemical insights. Emission Control Science and Technology, 2017, 3, 18-36.	0.8	18
45	Scalable continuous flow synthesis of ZnO nanorod arrays in 3-D ceramic honeycomb substrates for low-temperature desulfurization. CrystEngComm, 2017, 19, 5128-5136.	1.3	16
46	In situ TPR removal: a generic method for fabricating tubular array devices with mechanical and structural soundness, and functional robustness on various substrates. Journal of Materials Chemistry, 2012, 22, 23098.	6.7	14
47	Mesoporous Perovskite Nanotubeâ€Array Enhanced Metallicâ€State Platinum Dispersion for Low Temperature Propane Oxidation. ChemCatChem, 2018, 10, 2184-2189.	1.8	14
48	Surface modification of macroporous La0.8Sr0.2CoO3 perovskite oxides integrated monolithic catalysts for improved propane oxidation. Catalysis Today, 2021, 376, 168-176.	2.2	13
49	Understanding the direct relationship between various structure-directing agents and low-temperature hydrothermal durability over Cu-SAPO-34 during the NH₃-SCR reaction. Catalysis Science and Technology, 2022, 12, 579-595.	2.1	13
50	Fabrication and Excellent Antibacterial Activity of Well-defined CuO/Graphdiyne Nanostructure. Chemical Research in Chinese Universities, 2021, 37, 1341-1347.	1.3	11
51	Construction of Heterojunction Nanowires from Polythiophene/Polypyrrole for Applications as Efficient Switches. Chemistry - an Asian Journal, 2011, 6, 98-102.	1.7	10
52	Promoting effect of post-synthesis treatment strategy on NH3-SCR performance and hydrothermal stability of Cu-SAPO-18. Microporous and Mesoporous Materials, 2021, 328, 111496.	2.2	8
53	Induced helix formation and stabilization of a meta-linked polymer containing pyridine units. Journal of Polymer Science Part A, 2007, 45, 1403-1412.	2.5	7
54	Robust and well-controlled TiO₂â€"Al₂O₃ binary nanoarray-integrated ceramic honeycomb for efficient propane combustion. CrystEngComm, 2019, 21, 2727-2735.	1.3	5

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55	Methanol Production: Cuâ€Decorated ZnO Nanorod Array Integrated Structured Catalysts for Lowâ€Pressure CO₂ Hydrogenation to Methanol (Adv. Mater. Interfaces 3/2018). Advanced Materials Interfaces, 2018, 5, 1870011.	1.9	3