Yanshan Gao

List of Publications by Year
in descending order

53 papers	4,642 citations	159585 30 h-index	175258 52 g-index
53 all docs	53 docs citations	53 times ranked	5037 citing authors

#	Article	IF	Citations
1	Controllable synthesis of MnO2/iron mesh monolithic catalyst and its significant enhancement for toluene oxidation. Chinese Chemical Letters, 2023, 34, 107437.	9.0	5
2	Unravelling the Mechanism of Intermediateâ€Temperature CO₂ Interaction with Moltenâ€NaNO₃â€Saltâ€Promoted MgO. Advanced Materials, 2022, 34, e2106677.	21.0	21
3	The influencing mechanism of NH3 and NOx addition on the catalytic oxidation of toluene over Mn2Cu1Al1Ox catalyst. Journal of Cleaner Production, 2022, 348, 131152.	9.3	16
4	Preparation of ammonium polyphosphate and dye co-intercalated LDH/polypropylene composites with enhanced flame retardant and UV resistance properties. Chemosphere, 2021, 277, 130370.	8.2	46
5	Electrochemical Reduction of CO₂ to CO over Transition Metal/Nâ€Doped Carbon Catalysts: The Active Sites and Reaction Mechanism. Advanced Science, 2021, 8, e2102886.	11.2	121
6	The influence of Pt loading and dispersion on the NOx storage and reduction performance of Pt/K2CO3/Co1Mg2Al1Ox catalysts. Catalysis Today, 2020, 339, 148-158.	4.4	11
7	Electrolytic cell design for electrochemical CO2 reduction. Journal of CO2 Utilization, 2020, 35, 90-105.	6.8	184
8	Facile synthesis of Co3O4/N-doped carbon nanocomposites as efficient electrode material for sensitive determination of hydrazine. Journal of Alloys and Compounds, 2020, 816, 152574.	5.5	12
9	Fundamental investigation on layered double hydroxides derived mixed metal oxides for selective catalytic reduction of NOx by H2. Catalysis Today, 2020, 355, 450-457.	4.4	12
10	A comparative study on the NOx storage and reduction performance of Pt/Ni1Mg2Al1Ox and Pt/Mn1Mg2Al1Ox catalysts. Dalton Transactions, 2020, 49, 3970-3980.	3.3	2
11	Thermal properties and flame-retardant characteristics of layered double hydroxide polymer nanocomposites. , 2020, , 311-345.		5
12	Preparation of MnO2 decorated Co3Fe1O powder/monolithic catalyst with improved catalytic activity for toluene oxidation. Journal of Environmental Sciences, 2020, 96, 194-203.	6.1	22
13	Oxygen vacancy mediated CuyCo3-yFe1Ox mixed oxide as highly active and stable toluene oxidation catalyst by multiple phase interfaces formation and metal doping effect. Applied Catalysis B: Environmental, 2020, 269, 118827.	20.2	122
14	Industrial carbon dioxide capture and utilization: state of the art and future challenges. Chemical Society Reviews, 2020, 49, 8584-8686.	38.1	610
15	Synthesis of ZSM-5/Siliceous Zeolite Composites for Improvement of Hydrophobic Adsorption of Volatile Organic Compounds. Frontiers in Chemistry, 2019, 7, 505.	3.6	45
16	Enhanced water gas shift processes for carbon dioxide capture and hydrogen production. Applied Energy, 2019, 254, 113700.	10.1	36
17	Promotional effect of Ce doping in Cu4Al1Ox â€“ LDO catalyst for low-T practical NH3-SCR: Steady-state and transient kinetics studies. Applied Catalysis B: Environmental, 2019, 255, 117749.	20.2	75
18	Synthesis of hierarchical Li4SiO4 nanoparticles/flakers composite from vermiculite/MCM-41 hybrid with improved CO2 capture performance under different CO2 concentrations. Chemical Engineering Journal, 2019, 371, 424-432.	12.7	20

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19	Recent advances in lithium containing ceramic based sorbents for high-temperature CO₂ capture. Journal of Materials Chemistry A, 2019, 7, 7962-8005.	10.3	106
20	Fabrication of lithium silicates from zeolite for CO2 capture at high temperatures. Journal of Energy Chemistry, 2019, 33, 81-89.	12.9	23
21	Study on MNO₃/NO₂ (M = Li, Na, and K)/MgO Composites for Intermediate-Temperature CO₂ Capture. Energy & Fuels, 2019, 33, 1704-1712.	5.1	32
22	Synthesis and properties of polypropylene/layered double hydroxide nanocomposites with different LDHs particle sizes. Journal of Applied Polymer Science, 2018, 135, 46204.	2.6	28
23	Synthesis of highly efficient flame retardant polypropylene nanocomposites with surfactant intercalated layered double hydroxides. Dalton Transactions, 2018, 47, 2965-2975.	3.3	37
24	Microporous Zeolite@Vertically Aligned Mgâ€“Al Layered Double Hydroxide Core@Shell Structures with Improved Hydrophobicity and Toluene Adsorption Capacity under Wet Conditions. ACS Applied Materials & Interfaces, 2018, 10, 34834-34839.	8.0	65
25	Ammonium Polyphosphate Intercalated Layered Double Hydroxide and Zinc Borate as Highly Efficient Flame Retardant Nanofillers for Polypropylene. Polymers, 2018, 10, 1114.	4.5	17
26	The synergistic effect of layered double hydroxides with other flame retardant additives for polymer nanocomposites: a critical review. Dalton Transactions, 2018, 47, 14827-14840.	3.3	71
27	Preparation and Characterization of Highly Efficient CuFe Mixed Oxides for Total Oxidation of Toluene. Journal of Nanoscience and Nanotechnology, 2018, 18, 3381-3386.	0.9	7
28	Preparation of 4,4â€²-diaminostilbene-2,2â€²-disulfonic acid intercalated LDH/polypropylene nanocomposites with enhanced UV absorption property. Polymer Composites, 2017, 38, 1937-1947.	4.6	16
29	Co₃O₄ nanoparticles/MWCNTs composites: a potential scaffold for hydrazine and glucose electrochemical detection. RSC Advances, 2017, 7, 50087-50096.	3.6	17
30	Electrospun organicâ€“inorganic nanohybrids as sustained release drug delivery systems. Journal of Materials Chemistry B, 2017, 5, 9165-9174.	5.8	31
31	Molten salts-modified MgO-based adsorbents for intermediate-temperature CO2 capture: A review. Journal of Energy Chemistry, 2017, 26, 830-838.	12.9	114
32	Ethylene-VInyl acetate/LDH nanocomposites with enhanced thermal stability, flame retardancy, and rheological property. Polymer Composites, 2016, 37, 3449-3459.	4.6	10
33	Layered double hydroxide-oxidized carbon nanotube hybrids as highly efficient flame retardant nanofillers for polypropylene. Scientific Reports, 2016, 6, 35502.	3.3	44
34	Synthesis and characterization of alkali metal molybdates with high catalytic activity for dye degradation. RSC Advances, 2016, 6, 54553-54563.	3.6	15
35	Thin film nanocomposite forward osmosis membranes based on layered double hydroxide nanoparticles blended substrates. Journal of Membrane Science, 2016, 504, 196-205.	8.2	120
36	Morphology Controlled Synthesis of Co₃O₄ Nanostructures for Hydrazine Chemical Sensor. Nanoscience and Nanotechnology Letters, 2016, 8, 634-640.	0.4	8

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37	Morphology-dependent performance of Mg₃Alâ€“CO₃layered double hydroxide as a nanofiller for polypropylene nanocomposites. RSC Advances, 2015, 5, 51900-51911.	3.6	22
38	Synthesis of layered double hydroxides/graphene oxide nanocomposite as a novel high-temperature CO2 adsorbent. Journal of Energy Chemistry, 2015, 24, 127-137.	12.9	121
39	Flame retardant polymer/layered double hydroxide nanocomposites. Journal of Materials Chemistry A, 2014, 2, 10996.	10.3	299
40	Synthesis of LiAl₂-layered double hydroxides for CO₂capture over a wide temperature range. Journal of Materials Chemistry A, 2014, 2, 18454-18462.	10.3	69
41	A simple and reliable method for determining the delamination degree of nitrate and glycine intercalated LDHs in formamide. Chemical Communications, 2014, 50, 10130.	4.1	27
42	Recent advances in solid sorbents for CO₂capture and new development trends. Energy and Environmental Science, 2014, 7, 3478-3518.	30.8	953
43	Highly sensitive p-nitrophenol chemical sensor based on crystalline Î±-MnO₂ nanotubes. New Journal of Chemistry, 2014, 38, 4420-4426.	2.8	70
44	Adsorption of acid red from dye wastewater by Zn2Al-NO3 LDHs and the resource of adsorbent sludge as nanofiller for polypropylene. Journal of Alloys and Compounds, 2014, 587, 99-104.	5.5	45
45	Synthesis of Highly Efficient Flame Retardant High-Density Polyethylene Nanocomposites with Inorgano-Layered Double Hydroxides As Nanofiller Using Solvent Mixing Method. ACS Applied Materials & Interfaces, 2014, 6, 5094-5104.	8.0	110
46	Novel Na2Mo4O13/Î±-MoO3 hybrid material as highly efficient CWAO catalyst for dye degradation at ambient conditions. Scientific Reports, 2014, 4, 6797.	3.3	31
47	Synthesis of polypropylene/Mg3Alâ€“X (X = CO32â¯, NO3â¯, Clâ¯, SO42â¯) LDH nanocomposites using a solvent mixing method: thermal and melt rheological properties. Journal of Materials Chemistry A, 2013, 1, 9928.	10.3	61
48	Synthesis of Flame-Retardant Polypropylene/LDH-Borate Nanocomposites. Macromolecules, 2013, 46, 6145-6150.	4.8	146
49	A Critical Review on the Heterogeneous Catalytic Oxidation of Elemental Mercury in Flue Gases. Environmental Science & Technology, 2013, 47, 10813-10823.	10.0	222
50	Polypropylene/Mg3Alâ€“tartrazine LDH nanocomposites with enhanced thermal stability, UV absorption, and rheological properties. RSC Advances, 2013, 3, 26017.	3.6	39
51	Comprehensive investigation of CO2 adsorption on Mgâ€“Alâ€“CO3 LDH-derived mixed metal oxides. Journal of Materials Chemistry A, 2013, 1, 12782.	10.3	164
52	Synthesis of nano-sized spherical Mg3Alâ€“CO3 layered double hydroxide as a high-temperature CO2 adsorbent. RSC Advances, 2013, 3, 3414.	3.6	119
53	Synthesis and Characterization of High Surface Area Flower-Like Ca-Containing Layered Double Hydroxides Mg<I>₃</I>_{â€“}<I>_x</I>Ca<I>₁â€“NO₃. Science of Advanced Materials, 2013, 5, 411-420.	9.7	18