

Yanshan Gao

List of Publications by Year in descending order

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53
papers

4,642
citations

159585

30
h-index

175258

52
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53
all docs

53
docs citations

53
times ranked

5037
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in solid sorbents for CO ₂ capture and new development trends. <i>Energy and Environmental Science</i> , 2014, 7, 3478-3518.	30.8	953
2	Industrial carbon dioxide capture and utilization: state of the art and future challenges. <i>Chemical Society Reviews</i> , 2020, 49, 8584-8686.	38.1	610
3	Flame retardant polymer/layered double hydroxide nanocomposites. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10996.	10.3	299
4	A Critical Review on the Heterogeneous Catalytic Oxidation of Elemental Mercury in Flue Gases. <i>Environmental Science & Technology</i> , 2013, 47, 10813-10823.	10.0	222
5	Electrolytic cell design for electrochemical CO ₂ reduction. <i>Journal of CO₂ Utilization</i> , 2020, 35, 90-105.	6.8	184
6	Comprehensive investigation of CO ₂ adsorption on Mg-Al-CO ₃ LDH-derived mixed metal oxides. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12782.	10.3	164
7	Synthesis of Flame-Retardant Polypropylene/LDH-Borate Nanocomposites. <i>Macromolecules</i> , 2013, 46, 6145-6150.	4.8	146
8	Oxygen vacancy mediated Cu _y Co _{3-y} Fe _{10x} mixed oxide as highly active and stable toluene oxidation catalyst by multiple phase interfaces formation and metal doping effect. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118827.	20.2	122
9	Synthesis of layered double hydroxides/graphene oxide nanocomposite as a novel high-temperature CO ₂ adsorbent. <i>Journal of Energy Chemistry</i> , 2015, 24, 127-137.	12.9	121
10	Electrochemical Reduction of CO ₂ to CO over Transition Metal/N-Doped Carbon Catalysts: The Active Sites and Reaction Mechanism. <i>Advanced Science</i> , 2021, 8, e2102886.	11.2	121
11	Thin film nanocomposite forward osmosis membranes based on layered double hydroxide nanoparticles blended substrates. <i>Journal of Membrane Science</i> , 2016, 504, 196-205.	8.2	120
12	Synthesis of nano-sized spherical Mg ₃ Al-CO ₃ layered double hydroxide as a high-temperature CO ₂ adsorbent. <i>RSC Advances</i> , 2013, 3, 3414.	3.6	119
13	Molten salts-modified MgO-based adsorbents for intermediate-temperature CO ₂ capture: A review. <i>Journal of Energy Chemistry</i> , 2017, 26, 830-838.	12.9	114
14	Synthesis of Highly Efficient Flame Retardant High-Density Polyethylene Nanocomposites with Inorgano-Layered Double Hydroxides As Nanofiller Using Solvent Mixing Method. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5094-5104.	8.0	110
15	Recent advances in lithium containing ceramic based sorbents for high-temperature CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7962-8005.	10.3	106
16	Promotional effect of Ce doping in Cu ₄ Al ₁₀ O _x LDO catalyst for low-T practical NH ₃ -SCR: Steady-state and transient kinetics studies. <i>Applied Catalysis B: Environmental</i> , 2019, 255, 117749.	20.2	75
17	The synergistic effect of layered double hydroxides with other flame retardant additives for polymer nanocomposites: a critical review. <i>Dalton Transactions</i> , 2018, 47, 14827-14840.	3.3	71
18	Highly sensitive p-nitrophenol chemical sensor based on crystalline MnO ₂ nanotubes. <i>New Journal of Chemistry</i> , 2014, 38, 4420-4426.	2.8	70

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19	Synthesis of LiAl ₂ -layered double hydroxides for CO ₂ capture over a wide temperature range. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18454-18462.	10.3	69
20	Microporous Zeolite@Vertically Aligned Mg-Al Layered Double Hydroxide Core@Shell Structures with Improved Hydrophobicity and Toluene Adsorption Capacity under Wet Conditions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34834-34839.	8.0	65
21	Synthesis of polypropylene/Mg ₃ Al-X (X = CO ₃ ²⁻ , NO ₃ ⁻ , Cl ⁻ , SO ₄ ²⁻) LDH nanocomposites using a solvent mixing method: thermal and melt rheological properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9928.	10.3	61
22	Preparation of ammonium polyphosphate and dye co-intercalated LDH/polypropylene composites with enhanced flame retardant and UV resistance properties. <i>Chemosphere</i> , 2021, 277, 130370.	8.2	46
23	Adsorption of acid red from dye wastewater by Zn ₂ Al-NO ₃ LDHs and the resource of adsorbent sludge as nanofiller for polypropylene. <i>Journal of Alloys and Compounds</i> , 2014, 587, 99-104.	5.5	45
24	Synthesis of ZSM-5/Siliceous Zeolite Composites for Improvement of Hydrophobic Adsorption of Volatile Organic Compounds. <i>Frontiers in Chemistry</i> , 2019, 7, 505.	3.6	45
25	Layered double hydroxide-oxidized carbon nanotube hybrids as highly efficient flame retardant nanofillers for polypropylene. <i>Scientific Reports</i> , 2016, 6, 35502.	3.3	44
26	Polypropylene/Mg ₃ Al-tartrazine LDH nanocomposites with enhanced thermal stability, UV absorption, and rheological properties. <i>RSC Advances</i> , 2013, 3, 26017.	3.6	39
27	Synthesis of highly efficient flame retardant polypropylene nanocomposites with surfactant intercalated layered double hydroxides. <i>Dalton Transactions</i> , 2018, 47, 2965-2975.	3.3	37
28	Enhanced water gas shift processes for carbon dioxide capture and hydrogen production. <i>Applied Energy</i> , 2019, 254, 113700.	10.1	36
29	Study on MnO ₃ /NO ₂ (M = Li, Na, and K)/MgO Composites for Intermediate-Temperature CO ₂ Capture. <i>Energy & Fuels</i> , 2019, 33, 1704-1712.	5.1	32
30	Novel Na ₂ Mo ₄ O ₁₃ /MoO ₃ hybrid material as highly efficient CWAO catalyst for dye degradation at ambient conditions. <i>Scientific Reports</i> , 2014, 4, 6797.	3.3	31
31	Electrospun organic-inorganic nanohybrids as sustained release drug delivery systems. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9165-9174.	5.8	31
32	Synthesis and properties of polypropylene/layered double hydroxide nanocomposites with different LDHs particle sizes. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46204.	2.6	28
33	A simple and reliable method for determining the delamination degree of nitrate and glycine intercalated LDHs in formamide. <i>Chemical Communications</i> , 2014, 50, 10130.	4.1	27
34	Fabrication of lithium silicates from zeolite for CO ₂ capture at high temperatures. <i>Journal of Energy Chemistry</i> , 2019, 33, 81-89.	12.9	23
35	Morphology-dependent performance of Mg ₃ Al-CO ₃ -layered double hydroxide as a nanofiller for polypropylene nanocomposites. <i>RSC Advances</i> , 2015, 5, 51900-51911.	3.6	22
36	Preparation of MnO ₂ decorated Co ₃ Fe ₁₀ O powder/monolithic catalyst with improved catalytic activity for toluene oxidation. <i>Journal of Environmental Sciences</i> , 2020, 96, 194-203.	6.1	22

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37	Unravelling the Mechanism of Intermediate-Temperature CO ₂ Interaction with Molten NaNO ₃ -Promoted MgO. <i>Advanced Materials</i> , 2022, 34, e2106677.	21.0	21
38	Synthesis of hierarchical Li ₄ SiO ₄ nanoparticles/flakers composite from vermiculite/MCM-41 hybrid with improved CO ₂ capture performance under different CO ₂ concentrations. <i>Chemical Engineering Journal</i> , 2019, 371, 424-432.	12.7	20
39	Synthesis and Characterization of High Surface Area Flower-Like Ca-Containing Layered Double Hydroxides Mg ₃ (OH) ₂ (NO ₃) ₂ ·xH ₂ O/Ca ₁₈ (OH) ₁₆ (NO ₃) ₂ ·10H ₂ O. <i>Science of Advanced Materials</i> , 2013, 5, 411-420.	0.7	18
40	Co ₃ O ₄ nanoparticles/MWCNTs composites: a potential scaffold for hydrazine and glucose electrochemical detection. <i>RSC Advances</i> , 2017, 7, 50087-50096.	3.6	17
41	Ammonium Polyphosphate Intercalated Layered Double Hydroxide and Zinc Borate as Highly Efficient Flame Retardant Nanofillers for Polypropylene. <i>Polymers</i> , 2018, 10, 1114.	4.5	17
42	Preparation of 4,4'-diaminostilbene-2,2'-disulfonic acid intercalated LDH/polypropylene nanocomposites with enhanced UV absorption property. <i>Polymer Composites</i> , 2017, 38, 1937-1947.	4.6	16
43	The influencing mechanism of NH ₃ and NO _x addition on the catalytic oxidation of toluene over Mn ₂ Cu ₁ Al ₁ O _x catalyst. <i>Journal of Cleaner Production</i> , 2022, 348, 131152.	9.3	16
44	Synthesis and characterization of alkali metal molybdates with high catalytic activity for dye degradation. <i>RSC Advances</i> , 2016, 6, 54553-54563.	3.6	15
45	Facile synthesis of Co ₃ O ₄ /N-doped carbon nanocomposites as efficient electrode material for sensitive determination of hydrazine. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152574.	5.5	12
46	Fundamental investigation on layered double hydroxides derived mixed metal oxides for selective catalytic reduction of NO _x by H ₂ . <i>Catalysis Today</i> , 2020, 355, 450-457.	4.4	12
47	The influence of Pt loading and dispersion on the NO _x storage and reduction performance of Pt/K ₂ CO ₃ /Co ₁ Mg ₂ Al ₁ O _x catalysts. <i>Catalysis Today</i> , 2020, 339, 148-158.	4.4	11
48	Ethylene-Vinyl acetate/LDH nanocomposites with enhanced thermal stability, flame retardancy, and rheological property. <i>Polymer Composites</i> , 2016, 37, 3449-3459.	4.6	10
49	Morphology Controlled Synthesis of Co ₃ O ₄ Nanostructures for Hydrazine Chemical Sensor. <i>Nanoscience and Nanotechnology Letters</i> , 2016, 8, 634-640.	0.4	8
50	Preparation and Characterization of Highly Efficient CuFe Mixed Oxides for Total Oxidation of Toluene. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 3381-3386.	0.9	7
51	Thermal properties and flame-retardant characteristics of layered double hydroxide polymer nanocomposites. , 2020, , 311-345.		5
52	Controllable synthesis of MnO ₂ /iron mesh monolithic catalyst and its significant enhancement for toluene oxidation. <i>Chinese Chemical Letters</i> , 2023, 34, 107437.	9.0	5
53	A comparative study on the NO _x storage and reduction performance of Pt/Ni ₁ Mg ₂ Al ₁ O _x and Pt/Mn ₁ Mg ₂ Al ₁ O _x catalysts. <i>Dalton Transactions</i> , 2020, 49, 3970-3980.	3.3	2