

Ying Li

List of Publications by Year in descending order

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106
papers

9,793
citations

34076

52
h-index

36008

97
g-index

109
all docs

109
docs citations

109
times ranked

9430
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic CO ₂ Reduction with H ₂ O on TiO ₂ Nanocrystals: Comparison of Anatase, Rutile, and Brookite Polymorphs and Exploration of Surface Chemistry. ACS Catalysis, 2012, 2, 1817-1828.	5.5	741
2	Engineering Coexposed {001} and {101} Facets in Oxygen-Deficient TiO ₂ Nanocrystals for Enhanced CO ₂ Photoreduction under Visible Light. ACS Catalysis, 2016, 6, 1097-1108.	5.5	529
3	Photocatalytic reduction of CO ₂ with H ₂ O on mesoporous silica supported Cu/TiO ₂ catalysts. Applied Catalysis B: Environmental, 2010, 100, 386-392.	10.8	446
4	Unveiling Active Sites of CO ₂ Reduction on Nitrogen-Coordinated and Atomically Dispersed Iron and Cobalt Catalysts. ACS Catalysis, 2018, 8, 3116-3122.	5.5	405
5	CeO ₂ -TiO ₂ Catalysts for Catalytic Oxidation of Elemental Mercury in Low-Rank Coal Combustion Flue Gas. Environmental Science & Technology, 2011, 45, 7394-7400.	4.6	341
6	Tailoring Cu valence and oxygen vacancy in Cu/TiO ₂ catalysts for enhanced CO ₂ photoreduction efficiency. Applied Catalysis B: Environmental, 2013, 134-135, 349-358.	10.8	310
7	Understanding the Reaction Mechanism of Photocatalytic Reduction of CO ₂ with H ₂ O on TiO ₂ -Based Photocatalysts: A Review. Aerosol and Air Quality Research, 2014, 14, 453-469.	0.9	290
8	Superior activity of MnO _x -CeO ₂ /TiO ₂ catalyst for catalytic oxidation of elemental mercury at low flue gas temperatures. Applied Catalysis B: Environmental, 2012, 111-112, 381-388.	10.8	275
9	Spontaneous Dissociation of CO ₂ to CO on Defective Surface of Cu(I)/TiO ₂ Nanoparticles at Room Temperature. Journal of Physical Chemistry C, 2012, 116, 7904-7912.	1.5	262
10	Identification of champion transition metals centers in metal and nitrogen-codoped carbon catalysts for CO ₂ reduction. Applied Catalysis B: Environmental, 2018, 226, 463-472.	10.8	259
11	Bicrystalline TiO ₂ with controllable anatase-brookite phase content for enhanced CO ₂ photoreduction to fuels. Journal of Materials Chemistry A, 2013, 1, 8209.	5.2	223
12	Visible light responsive iodine-doped TiO ₂ for photocatalytic reduction of CO ₂ to fuels. Applied Catalysis A: General, 2011, 400, 195-202.	2.2	219
13	Development of Silica/Vanadia/Titania Catalysts for Removal of Elemental Mercury from Coal-Combustion Flue Gas. Environmental Science & Technology, 2008, 42, 5304-5309.	4.6	203
14	Oxidation and capture of elemental mercury over SiO ₂ -TiO ₂ -V ₂ O ₅ catalysts in simulated low-rank coal combustion flue gas. Chemical Engineering Journal, 2011, 169, 186-193.	6.6	185
15	Role of flue gas components in mercury oxidation over TiO ₂ supported MnO _x -CeO ₂ mixed-oxide at low temperature. Journal of Hazardous Materials, 2012, 243, 117-123.	6.5	174
16	Visible-Light-Driven Photocatalytic Degradation of Organic Water Pollutants Promoted by Sulfite Addition. Environmental Science & Technology, 2017, 51, 13372-13379.	4.6	162
17	Pore-Edge Tailoring of Single-Atom Iron-Nitrogen Sites on Graphene for Enhanced CO ₂ Reduction. ACS Catalysis, 2020, 10, 10803-10811.	5.5	140
18	Promoting electrocatalytic CO ₂ reduction on nitrogen-doped carbon with sulfur addition. Applied Catalysis B: Environmental, 2019, 252, 240-249.	10.8	139

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19	Ultrasonic spray pyrolysis synthesis of Ag/TiO ₂ nanocomposite photocatalysts for simultaneous H ₂ production and CO ₂ reduction. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 9967-9976.	3.8	136
20	Copper and iodine co-modified TiO ₂ nanoparticles for improved activity of CO ₂ photoreduction with water vapor. <i>Applied Catalysis B: Environmental</i> , 2012, 123-124, 257-264.	10.8	128
21	Impact of SO ₂ on elemental mercury oxidation over CeO ₂ @TiO ₂ catalyst. <i>Chemical Engineering Journal</i> , 2013, 219, 319-326.	6.6	125
22	Atomically Dispersed Iron@Nitrogen Sites on Hierarchically Mesoporous Carbon Nanotube and Graphene Nanoribbon Networks for CO ₂ Reduction. <i>ACS Nano</i> , 2020, 14, 5506-5516.	7.3	125
23	A review on the effects of TiO ₂ surface point defects on CO ₂ photoreduction with H ₂ O. <i>Journal of Materiomics</i> , 2017, 3, 17-32.	2.8	119
24	Integrating photocatalysis and thermocatalysis to enable efficient CO ₂ reforming of methane on Pt supported CeO ₂ with Zn doping and atomic layer deposited MgO overcoating. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118189.	10.8	115
25	Porous microspheres of MgO-patched TiO ₂ for CO ₂ photoreduction with H ₂ O vapor: temperature-dependent activity and stability. <i>Chemical Communications</i> , 2013, 49, 3664.	2.2	114
26	Magnetite@Polypyrrole Metacomposites: Dielectric Properties and Magnetoresistance Behavior. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10191-10202.	1.5	113
27	Mechanistic Study of CO ₂ Photoreduction with H ₂ O on Cu/TiO ₂ Nanocomposites by in Situ X-ray Absorption and Infrared Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2017, 121, 490-499.	1.5	107
28	Boosting CO ₂ reduction on Fe-N-C with sulfur incorporation: Synergistic electronic and structural engineering. <i>Nano Energy</i> , 2020, 68, 104384.	8.2	106
29	Removal of gaseous Hg ⁰ using novel seaweed biomass-based activated carbon. <i>Chemical Engineering Journal</i> , 2019, 366, 41-49.	6.6	103
30	Integrated CO ₂ capture and photocatalytic conversion by a hybrid adsorbent/photocatalyst material. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 489-499.	10.8	102
31	Preparation of microwave-activated magnetic bio-char adsorbent and study on removal of elemental mercury from flue gas. <i>Science of the Total Environment</i> , 2019, 697, 134049.	3.9	101
32	Role of Moisture in Adsorption, Photocatalytic Oxidation, and Reemission of Elemental Mercury on a SiO ₂ @TiO ₂ Nanocomposite. <i>Environmental Science & Technology</i> , 2006, 40, 6444-6448.	4.6	100
33	Sulfur-infiltrated porous carbon microspheres with controllable multi-modal pore size distribution for high energy lithium-sulfur batteries. <i>Nanoscale</i> , 2014, 6, 882-888.	2.8	97
34	Efficient CO ₂ Electroreduction by Highly Dense and Active Pyridinic Nitrogen on Holey Carbon Layers with Fluorine Engineering. <i>ACS Catalysis</i> , 2019, 9, 2124-2133.	5.5	97
35	Mercury removal from flue gas by magnetic iron-copper oxide modified porous char derived from biomass materials. <i>Fuel</i> , 2019, 256, 115977.	3.4	96
36	Removal of elemental mercury from simulated coal-combustion flue gas using a SiO ₂ @TiO ₂ nanocomposite. <i>Fuel Processing Technology</i> , 2008, 89, 567-573.	3.7	94

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37	Photocatalytic conversion of CO ₂ and H ₂ O to fuels by nanostructured CeO ₂ /TiO ₂ /SBA-15 composites. <i>Catalysis Science and Technology</i> , 2012, 2, 2558.	2.1	94
38	CO ₂ photoreduction with H ₂ O vapor by porous MgO-TiO ₂ microspheres: effects of surface MgO dispersion and CO ₂ adsorption-desorption dynamics. <i>Catalysis Science and Technology</i> , 2014, 4, 1539-1546.	2.1	91
39	The effect of coordination environment on the activity and selectivity of single-atom catalysts. <i>Coordination Chemistry Reviews</i> , 2022, 461, 214493.	9.5	91
40	A Density Functional Theory and Experimental Study of CO ₂ Interaction with Brookite TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2012, 116, 19755-19764.	1.5	84
41	Novel titanium dioxide/iron (III) oxide/graphene oxide photocatalytic membrane for enhanced humic acid removal from water. <i>Chemical Engineering Journal</i> , 2016, 302, 633-640.	6.6	79
42	A review on application of cerium-based oxides in gaseous pollutant purification. <i>Separation and Purification Technology</i> , 2020, 250, 117181.	3.9	79
43	Kinetics of mercury oxidation in the presence of hydrochloric acid and oxygen over a commercial SCR catalyst. <i>Chemical Engineering Journal</i> , 2013, 220, 53-60.	6.6	76
44	Atomic-level active sites of efficient imidazolate framework-derived nickel catalysts for CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26231-26237.	5.2	72
45	Silver-incorporated bicrystalline (anatase/brookite) TiO ₂ microspheres for CO ₂ photoreduction with water in the presence of methanol. <i>Applied Catalysis A: General</i> , 2013, 467, 474-482.	2.2	70
46	Photocatalytic degradation of phenol in water under simulated sunlight by an ultrathin MgO coated Ag/TiO ₂ nanocomposite. <i>Chemosphere</i> , 2019, 216, 1-8.	4.2	68
47	CO ₂ Reduction by Plasmonic Au Nanoparticle-Decorated TiO ₂ Photocatalyst with an Ultrathin Al ₂ O ₃ Interlayer. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18949-18956.	1.5	66
48	Atomic layer deposition enabled MgO surface coating on porous TiO ₂ for improved CO ₂ photoreduction. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 274-283.	10.8	63
49	Self-growth-templating synthesis of 3D N,P,Co-doped mesoporous carbon frameworks for efficient bifunctional oxygen and carbon dioxide electroreduction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13104-13111.	5.2	62
50	A review on adsorption-enhanced photoreduction of carbon dioxide by nanocomposite materials. <i>Advanced Composites and Hybrid Materials</i> , 2018, 1, 6-31.	9.9	58
51	Interfacially reinforced carbon fiber silicone resin via constructing functional nano-structural silver. <i>Composites Science and Technology</i> , 2019, 181, 107689.	3.8	58
52	A review on removal of mercury from flue gas utilizing existing air pollutant control devices (APCDs). <i>Journal of Hazardous Materials</i> , 2022, 427, 128132.	6.5	58
53	Enhancing photocatalytic CO ₂ reduction by coating an ultrathin Al ₂ O ₃ layer on oxygen deficient TiO ₂ nanorods through atomic layer deposition. <i>Applied Surface Science</i> , 2017, 404, 49-56.	3.1	55
54	In situ biomineralization-constructed superhydrophilic and underwater superoleophobic PVDF-TiO ₂ membranes for superior antifouling separation of oil-in-water emulsions. <i>Journal of Membrane Science</i> , 2021, 622, 119030.	4.1	55

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55	A Novel Photo-thermochemical Approach for Enhanced Carbon Dioxide Reforming of Methane. <i>ChemCatChem</i> , 2018, 10, 940-945.	1.8	54
56	Modification of boiler operating conditions for mercury emissions reductions in coal-fired utility boilers. <i>Fuel</i> , 2006, 85, 204-212.	3.4	52
57	A novel N,Fe-Decorated carbon nanotube/carbon nanosheet architecture for efficient CO ₂ reduction. <i>Electrochimica Acta</i> , 2018, 273, 154-161.	2.6	50
58	Synthesis of novel MgAl layered double oxide grafted TiO ₂ cuboids and their photocatalytic activity on CO ₂ reduction with water vapor. <i>Catalysis Science and Technology</i> , 2015, 5, 3288-3295.	2.1	47
59	Novel anti-fouling Fe ₂ O ₃ /TiO ₂ nanowire membranes for humic acid removal from water. <i>Chemical Engineering Journal</i> , 2015, 271, 180-187.	6.6	45
60	Enhanced disinfection of Escherichia coli and bacteriophage MS2 in water using a copper and silver loaded titanium dioxide nanowire membrane. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 1.	3.3	43
61	Novel superhydrophilic antifouling PVDF-BiOCl nanocomposite membranes fabricated via a modified blending-phase inversion method. <i>Separation and Purification Technology</i> , 2021, 254, 117656.	3.9	40
62	Removal of Elemental Mercury from Flue Gas Using Microwave/Ultrasound-Activated Ce-Fe Magnetic Porous Carbon Derived from Biomass Straw. <i>Energy & Fuels</i> , 2019, 33, 8394-8402.	2.5	39
63	Membrane distillation coupled with a novel two-stage pretreatment process for petrochemical wastewater treatment and reuse. <i>Separation and Purification Technology</i> , 2019, 224, 23-32.	3.9	38
64	Kinetic Study for Photocatalytic Oxidation of Elemental Mercury on a SiO ₂ -TiO ₂ Nanocomposite. <i>Environmental Engineering Science</i> , 2007, 24, 3-12.	0.8	37
65	Giant magnetoresistance in non-magnetic phosphoric acid doped polyaniline silicon nanocomposites with higher magnetic field sensing sensitivity. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10866.	1.3	36
66	A novel synthesis of oleophilic Fe ₂ O ₃ /polystyrene fibers by ¹³⁷ I-Ray irradiation for the enhanced photocatalysis of 4-chlorophenol and 4-nitrophenol degradation. <i>Journal of Hazardous Materials</i> , 2019, 379, 120806.	6.5	35
67	Facile Integration of Hierarchical Pores and N,P-Codoping in Carbon Networks Enables Efficient Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2017, 238, 375-383.	2.6	34
68	ZnO-CoO Nanoparticles Encapsulated in 3D Porous Carbon Microspheres for High-performance Lithium-Ion Battery Anodes. <i>Electrochimica Acta</i> , 2014, 135, 224-231.	2.6	32
69	Synthesis of Carbon-TiO ₂ Nanocomposites with Enhanced Reversible Capacity and Cyclic Performance as Anodes for Lithium-Ion Batteries. <i>Electrochimica Acta</i> , 2015, 155, 288-296.	2.6	32
70	One-Step Chemical Vapor Deposition Synthesis of Hierarchical Ni and N Co-Doped Carbon Nanosheet/Nanotube Hybrids for Efficient Electrochemical CO ₂ Reduction at Commercially Viable Current Densities. <i>ACS Catalysis</i> , 2021, 11, 10333-10344.	5.5	32
71	CO ₂ photoreduction with water vapor by Ti-embedded MgAl layered double hydroxides. <i>Journal of CO₂ Utilization</i> , 2016, 15, 15-23.	3.3	30
72	Efficient oil/water separation by a durable underwater superoleophobic mesh membrane with TiO ₂ coating via biomineralization. <i>Separation and Purification Technology</i> , 2019, 222, 35-44.	3.9	30

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73	Mercury Emissions Control in Coal Combustion Systems Using Potassium Iodide: Bench-Scale and Pilot-Scale Studies. <i>Energy & Fuels</i> , 2009, 23, 236-243.	2.5	29
74	Kinetic modeling of mercury oxidation by chlorine over CeO ₂ –TiO ₂ catalysts. <i>Fuel</i> , 2013, 113, 726-732.	3.4	28
75	Photocatalytic CO ₂ reduction on porous TiO ₂ synergistically promoted by atomic layer deposited MgO overcoating and photodeposited silver nanoparticles. <i>Catalysis Today</i> , 2020, 339, 328-336.	2.2	28
76	FeOOH and Fe ₂ O ₃ co-grafted TiO ₂ photocatalysts for bisphenol A degradation in water. <i>Catalysis Communications</i> , 2017, 97, 125-129.	1.6	27
77	Atomic layer deposited TiO ₂ ultrathin layer on Ag ₂ S/ZnO nanorods for stable and efficient photocatalytic degradation of RhB. <i>Advanced Composites and Hybrid Materials</i> , 2018, 1, 404-413.	9.9	27
78	Highly Efficient Nickel, Iron, and Nitrogen Codoped Carbon Catalysts Derived from Industrial Waste Petroleum Coke for Electrochemical CO ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8840-8847.	3.2	26
79	Flower-like Bismuth Metal-Organic Frameworks Grown on Carbon Paper as a Free-Standing Electrode for Efficient Electrochemical Sensing of Cd ²⁺ and Pb ²⁺ in Water. <i>Engineered Science</i> , 2018, , .	1.2	26
80	NANOWASTES AND THE ENVIRONMENT: USING MERCURY AS AN EXAMPLE POLLUTANT TO ASSESS THE ENVIRONMENTAL FATE OF CHEMICALS ADSORBED ONTO MANUFACTURED NANOMATERIALS. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 808.	2.2	24
81	Mesoporous TiO ₂ –BiOBr microspheres with tailorable adsorption capacities for photodegradation of organic water pollutants: probing adsorption–photocatalysis synergy by combining experiments and kinetic modeling. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 769-781.	1.2	22
82	An integrated electrocoagulation – Electro catalysis water treatment process using stainless steel cathodes coated with ultrathin TiO ₂ nanofilms. <i>Chemosphere</i> , 2020, 254, 126776.	4.2	21
83	Superparamagnetic iron oxide-enclosed hollow gold nanostructure with tunable surface plasmon resonances to promote near-infrared photothermal conversion. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 2387-2398.	9.9	21
84	Energy Recycling by Co-Combustion of Coal and Recovered Paint Solids from Automobile Paint Operations. <i>Journal of the Air and Waste Management Association</i> , 2009, 59, 553-559.	0.9	20
85	Probing the Origin of Photocatalytic Effects in Photothermochemical Dry Reforming of Methane on a Pt/CeO ₂ Catalyst. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18684-18692.	1.5	17
86	Superhydrophobic Electrospun PVDF Membranes with Silanization and Fluorosilanization Co-functionalized CNTs for Improved Direct Contact Membrane Distillation. <i>Engineered Science</i> , 2020, , .	1.2	17
87	Degradation of Hazardous Organics via Cathodic Flow-through Process Using a Spinel FeCo ₂ O ₄ /CNT Decorated Stainless-Steel Mesh. <i>ES Materials & Manufacturing</i> , 2021, , .	1.1	16
88	Thermal stability and flammability of cotton fabric with TiO ₂ coatings based on biomineralization. <i>Materials Chemistry and Physics</i> , 2022, 282, 125986.	2.0	16
89	Mercury Capture by Nano-Structured Titanium Dioxide Sorbent during Coal Combustion: Lab-Scale to Pilot-Scale Studies. <i>Aerosol and Air Quality Research</i> , 2009, 9, 394-403.	0.9	15
90	Syngas production at a near-unity H ₂ /CO ratio from photo-thermo-chemical dry reforming of methane on a Pt decorated Al ₂ O ₃ –CeO ₂ catalyst. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7896-7910.	5.2	15

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91	Simulated solar light-driven photocatalytic degradation of trichloroethylene in water using BiOBr promoted by sulfite addition. <i>Environmental Sciences Europe</i> , 2020, 32, .	2.6	14
92	Water wave vibration-promoted solar evaporation with super high productivity. <i>Nano Energy</i> , 2022, 92, 106745.	8.2	14
93	Nitrogen Coordinated Single Atomic Metals Supported on Nanocarbons: A New Frontier in Electrocatalytic CO ₂ Reduction. <i>Engineered Science</i> , 2018, , .	1.2	13
94	Removal of Waterborne Particles by Electrofiltration: Pilot-Scale Testing. <i>Environmental Engineering Science</i> , 2009, 26, 1795-1803.	0.8	11
95	MgAl-layered double hydroxide flower arrays grown on carbon paper for efficient electrochemical sensing of nitrite. <i>Journal of Electroanalytical Chemistry</i> , 2019, 855, 113632.	1.9	11
96	Elucidating the Role of Dissolved Organic Matter and Sunlight in Mediating the Formation of Ag@Au Bimetallic Alloy Nanoparticles in the Aquatic Environment. <i>Environmental Science & Technology</i> , 2021, 55, 1710-1720.	4.6	11
97	Feasibility study of flowback/produced water treatment using direct-contact membrane distillation. <i>Desalination and Water Treatment</i> , 2016, 57, 21314-21327.	1.0	10
98	Metal-Organic Framework MIL-125 Derived Mg ²⁺ -Doped Mesoporous TiO ₂ for Photocatalytic CO ₂ Reduction. <i>ChemPhotoChem</i> , 2021, 5, 79-89.	1.5	8
99	Photocatalytic reduction of chlorate in aqueous TiO ₂ suspension with hole scavenger under simulated solar light. <i>Emergent Materials</i> , 2021, 4, 435-446.	3.2	7
100	A Sustainable Synthesis of Nickel-Nitrogen-Carbon Catalysts for Efficient Electrochemical CO ₂ Reduction to CO. <i>ES Materials & Manufacturing</i> , 2021, , .	1.1	7
101	Response to Comment on "Visible-Light-Driven Photocatalytic Degradation of Organic Water Pollutants Promoted by Sulfite Addition". <i>Environmental Science & Technology</i> , 2018, 52, 1677-1678.	4.6	6
102	Introducing Engineered Science. <i>Engineered Science</i> , 2018, , .	1.2	6
103	Integrating solar steam generation with electrocatalysis to achieve simultaneous fouling-resistant desalination and accelerated organics degradation. <i>Desalination</i> , 2022, 532, 115763.	4.0	5
104	Efficient Photothermochemical Dry Reforming of Methane over Ni Supported on ZrO ₂ with CeO ₂ Incorporation. <i>Catalysis Today</i> , 2022, , .	2.2	5
105	Preface to Special Issue - CO ₂ Capture, Sequestration, Conversion and Utilization. <i>Aerosol and Air Quality Research</i> , 2014, 14, 451-452.	0.9	2
106	Thin Film Materials and Devices. <i>ES Materials & Manufacturing</i> , 2020, , .	1.1	1