

# Bolun Yang

## List of Publications by Year in descending order

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67  
papers

2,030  
citations

236925

25  
h-index

254184

43  
g-index

69  
all docs

69  
docs citations

69  
times ranked

3087  
citing authors

#	ARTICLE	IF	CITATIONS
1	NiS <sub>x</sub> Quantum Dots Accelerate Electron Transfer in Cd <sub>0.8</sub> Zn <sub>0.2</sub> S Photocatalytic System via an rGO Nanosheet "Bridge" toward Visible-Light-Driven Hydrogen Evolution. ACS Catalysis, 2018, 8, 1532-1545.	11.2	137
2	A facile strategy for the synthesis of hierarchical TiO <sub>2</sub> /CdS hollow sphere heterostructures with excellent visible light activity. Journal of Materials Chemistry A, 2014, 2, 7674-7679.	10.3	127
3	Polymerized Ionic Networks with High Charge Density: Quasi-Solid Electrolytes in Lithium-Metal Batteries. Advanced Materials, 2015, 27, 8088-8094.	21.0	110
4	Facile fabrication of novel SiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> core-shell nanosphere photocatalysts with enhanced visible light activity. Applied Surface Science, 2015, 357, 346-355.	6.1	100
5	Degradation of organic wastewater by hydrodynamic cavitation combined with acoustic cavitation. Ultrasonics Sonochemistry, 2018, 43, 156-165.	8.2	89
6	Upgrading Traditional Organic Electrolytes toward Future Lithium Metal Batteries: A Hierarchical Nano-SiO <sub>2</sub> -Supported Gel Polymer Electrolyte. ACS Energy Letters, 2020, 5, 1681-1688.	17.4	85
7	A facile one-step synthesis of three-dimensionally ordered macroporous N-doped TiO <sub>2</sub> with ethanediamine as the nitrogen source. Journal of Materials Chemistry A, 2014, 2, 15611-15619.	10.3	83
8	Zwitterionic Covalent Organic Frameworks: Attractive Porous Host for Gas Separation and Anhydrous Proton Conduction. ACS Nano, 2021, 15, 19743-19755.	14.6	78
9	Enhanced Cycling Performance for Lithium-Sulfur Batteries by a Laminated 2D g-C <sub>3</sub> N <sub>4</sub> /Graphene Cathode Interlayer. ChemSusChem, 2019, 12, 213-223.	6.8	72
10	Orthogonal synthesis, structural characteristics, and enhanced visible-light photocatalysis of mesoporous Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> heterostructured microspheres. Applied Surface Science, 2014, 311, 314-323.	6.1	69
11	Co-pyrolysis behavior of microalgae biomass and low-quality coal: Products distributions, char-surface morphology, and synergistic effects. Bioresource Technology, 2018, 255, 238-245.	9.6	68
12	Graphene-Analogues Boron Nitride Nanosheets Confining Ionic Liquids: A High-Performance Quasi-Liquid Solid Electrolyte. Small, 2016, 12, 3535-3542.	10.0	62
13	Co-pyrolysis behavior of microalgae biomass and low-rank coal: Kinetic analysis of the main volatile products. Bioresource Technology, 2019, 271, 202-209.	9.6	57
14	High-Charge Density Polymerized Ionic Networks Boosting High Ionic Conductivity as Quasi-Solid Electrolytes for High-Voltage Batteries. ACS Applied Materials & Interfaces, 2019, 11, 4001-4010.	8.0	47
15	Low loadings of platinum on transition metal carbides for hydrogen oxidation and evolution reactions in alkaline electrolytes. Chemical Communications, 2016, 52, 3697-3700.	4.1	42
16	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /Graphene Oxide Free-Standing Membranes as Modified Separators for Lithium-Sulfur Batteries with Enhanced Rate Performance. ACS Applied Energy Materials, 2020, 3, 2708-2718.	5.1	42
17	Few-Layer Boron Nitride with Engineered Nitrogen Vacancies for Promoting Conversion of Polysulfide as a Cathode Matrix for Lithium-Sulfur Batteries. Chemistry - A European Journal, 2019, 25, 8112-8117.	3.3	39
18	Vapor-Liquid Equilibrium for Mixtures of Water, Alcohols, and Ethers. Journal of Chemical & Engineering Data, 2002, 47, 1324-1329.	1.9	33

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19	Kinetic Study of Glycerol Etherification with Isobutene. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 3742-3751.	3.7	31
20	Increased Active Sites by in Situ Growth of CoP Quantum Dots on CdS/rGO To Achieve Efficient Photocatalytic H <sub>2</sub> Production. <i>ACS Applied Energy Materials</i> , 2019, 2, 4195-4204.	5.1	31
21	Investigation of a bubbling fluidized bed methanation reactor by using CFD-DEM and approximate image processing method. <i>Chemical Engineering Science</i> , 2019, 207, 1107-1120.	3.8	30
22	On-line analysis on the interaction between organic compounds from co-pyrolysis of microalgae and low-rank coal: Thermal behavior and kinetic characteristics. <i>Bioresource Technology</i> , 2018, 268, 672-676.	9.6	28
23	Thermal characteristics and surface morphology of char during co-pyrolysis of low-rank coal blended with microalgal biomass: Effects of <i>Nannochloropsis</i> and <i>Chlorella</i> . <i>Bioresource Technology</i> , 2018, 249, 501-509.	9.6	26
24	Oxygen Deficiency Driven Conversion of Polysulfide by Electrocatalysis: MoO <sub>3</sub> Nanobelts for an Improved Lithium-Sulfur Battery Cathode. <i>ChemNanoMat</i> , 2019, 5, 926-931.	2.8	26
25	Optimization of Synthetic Strategy of 4-(5-Di- <i>tert</i> -butyldibenzo-18-crown-6 Using Response Surface Methodology. <i>Organic Process Research and Development</i> , 2013, 17, 368-374.	2.7	25
26	CFD simulation of bubbling fluidized beds using a local-structure-dependent drag model. <i>Chemical Engineering Journal</i> , 2017, 329, 100-115.	12.7	25
27	Tungsten Carbide and Cobalt Modified Nickel Nanoparticles Supported on Multiwall Carbon Nanotubes as Highly Efficient Electrocatalysts for Urea Oxidation in Alkaline Electrolyte. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 41338-41343.	8.0	25
28	Dynamics and control study on the low temperature methanation reactor with mass and heat recycle. <i>Journal of Process Control</i> , 2013, 23, 1360-1370.	3.3	23
29	Design and Control of the Cryogenic Distillation Process for Purification of Synthetic Natural Gas from Methanation of Coke Oven Gas. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 19583-19593.	3.7	23
30	Molecule Simulation for the Secondary Reactions of Fluid Catalytic Cracking Gasoline by the Method of Structure Oriented Lumping Combined with Monte Carlo. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 4648-4657.	3.7	22
31	Polymer gel electrolytes containing sulfur-based ionic liquids in lithium battery applications at room temperature. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 515-521.	2.9	21
32	Hydrogen production from decalin dehydrogenation over Pt-Ni/C bimetallic catalysts. <i>Chinese Journal of Catalysis</i> , 2014, 35, 1833-1839.	14.0	21
33	Multi-scale CFD simulations of bubbling fluidized bed methanation process. <i>Chemical Engineering Journal</i> , 2019, 377, 119818.	12.7	21
34	Solvent-Controlled Reactivity of Au/CeO <sub>2</sub> Towards Hydrogenation of <i>p</i> -Chloronitrobenzene. <i>Catalysis Letters</i> , 2018, 148, 1490-1498.	2.6	19
35	Mechanistic Study on Adsorption Desulfurization Using Modified Graphene. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 10589-10598.	3.7	19
36	Effect of pore size and porosity distribution on radiation absorption and thermal performance of porous solar energy absorber. <i>Science China Technological Sciences</i> , 2019, 62, 2213-2225.	4.0	17

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37	Methane Oxidation over a V <sub>2</sub> O <sub>5</sub> Catalyst in the Liquid Phase. <i>Energy &amp; Fuels</i> , 2006, 20, 915-918.	5.1	16
38	Hydromechanical Simulation of a Bubbling Fluidized Bed Using an Extended Bubble-based EMMS Model. <i>Powder Technology</i> , 2017, 313, 369-381.	4.2	16
39	Calcium cation enhanced cathode/electrolyte interface property of Li <sub>2</sub> FeSiO <sub>4</sub> /C cathode for lithium-ion batteries with long-cycling life. <i>Chemical Physics</i> , 2018, 503, 1-13.	1.9	16
40	Characterization of KF/Al <sub>2</sub> O <sub>3</sub> Catalyst for the Synthesis of Diethyl Carbonate by Transesterification of Ethylene Carbonate. <i>Catalysis Letters</i> , 2010, 137, 232-238.	2.6	15
41	Predicting Properties of Biodiesel Fuels using Mixture Topological Index. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2009, 86, 375-382.	1.9	14
42	Study on CO <sub>2</sub> facilitated separation of mixed matrix membranes containing surface modified MWCNTs. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47848.	2.6	13
43	Understanding the Initial Decomposition Pathways of the n-Alkane/Nitroalkane Binary Mixture. <i>Chinese Journal of Chemistry</i> , 2013, 31, 1087-1094.	4.9	12
44	Liquid-liquid-solid mass transfer and phase behavior of heterogeneous etherification of glycerol with isobutene. <i>AIChE Journal</i> , 2018, 64, 2526-2535.	3.6	12
45	Bubbling fluidized bed methanation study with resolving the mesoscale structure effects. <i>AIChE Journal</i> , 2019, 65, e16561.	3.6	12
46	Chemical Looping with Oxygen Uncoupling of the Lignocellulosic Biomass Main Model Compound: Product Distribution and Kinetic Analysis on Lignin. <i>Energy &amp; Fuels</i> , 2020, 34, 10968-10979.	5.1	12
47	Process Simulation Based on Experimental Investigations for 3-Methylthiophene Alkylation with Isobutylene in a Reactive Distillation Column. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 9803-9811.	3.7	10
48	A strontium-doped Li <sub>2</sub> FeSiO <sub>4</sub> /C cathode with enhanced performance for the lithium-ion battery. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 3659-3673.	2.5	10
49	Dielectric barrier discharge plasma grafting carboxylate groups on Pt/Al <sub>2</sub> O <sub>3</sub> catalysts for highly efficient hydrogen release from perhydro-dibenzyltoluene. <i>Catalysis Science and Technology</i> , 2022, 12, 1441-1449.	4.1	10
50	Structure elucidation and NMR assignments for two new quinones from fructus rhodomyrti of <i>Rhodomyrtus tomentosa</i> . <i>Chemistry of Natural Compounds</i> , 2011, 47, 524-526.	0.8	9
51	VN/S Nanoclusters Encapsulated with Graphene via Zeta Potential Control: A Pomegranate-Like Cathode for Lithium-Sulfur Batteries with Enhanced Rate Performance. <i>ChemElectroChem</i> , 2020, 7, 1679-1688.	3.4	9
52	Upgrading Ethanol to Higher Alcohols via Biomass-Derived Ni/Bio-Apatite. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 3466-3476.	6.7	9
53	Improved Inheritance Algorithm for the Assembly of Coal Fragments. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 12392-12399.	3.7	7
54	Dynamic analysis on methanation reactor using a double-input multi-output linearized model. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 389-397.	3.5	7

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55	Two-Dimensional Computational Fluid Dynamics Simulation of Heat Removal in Fluidized Bed Methanation Reactors from Coke Oven Gas Using Immersed Horizontal Tubes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 981-991.	3.7	7
56	Biodiesel Production with Water-Tolerance and A Microwave Absorbing Catalyst using Tung Oil. <i>International Journal of Green Energy</i> , 2013, 10, 999-1010.	3.8	6
57	Synthesis and characterization of <i>trans</i> -di(nitrobenzo)- and di(aminobenzo)-18-crown-6 derivatives with high selectivity. <i>Synthetic Communications</i> , 2018, 48, 329-335.	2.1	6
58	Catalytic Dehydration of 1,4-Butanediol over Mg <sup>2+</sup> /Yb Binary Oxides and the Mechanism Study. <i>ChemCatChem</i> , 2020, 12, 2859-2871.	3.7	6
59	Mesoporous Silica Encapsulated Phosphotungstic Acid Catalysts for Alkylation Desulfurization of Gasoline. <i>Catalysis Letters</i> , 2021, 151, 95-106.	2.6	6
60	Preparation of vinyl amine-co-vinyl alcohol/polysulfone composite membranes and their carbon dioxide facilitated transport properties. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	5
61	Prediction model for increasing propylene from FCC gasoline secondary reactions based on Levenberg-Marquardt algorithm coupled with support vector machines. <i>Journal of Chemometrics</i> , 2010, 24, 574-583.	1.3	3
62	Dehydration kinetics for coal-based isobutanol on Al <sub>2</sub> O <sub>3</sub> . <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 2096-2103.	1.7	2
63	Effects of preparation parameters on CO <sub>2</sub> /N <sub>2</sub> gas permselectivity of polyether thin film composite membrane. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47755.	2.6	2
64	Decalin dehydrogenation on active carbon supported Pt-Ni bimetallic catalysts. , 2011, , .		1
65	Synthesizing 4,4-(5-Di-tert-butyl-dibenzo 18-crown-6 Monitored by Online FTIR. <i>Journal of Heterocyclic Chemistry</i> , 2014, 51, 1058-1062.	2.6	1
66	Kinetic study of the catalytic hydrogenation of the methylcyclopentadiene dimer over Pd/C catalyst. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2015, 115, 311-319.	1.7	1
67	Membrane separation process modeling for CO <sub>2</sub> partial removal in prepurification of air separation units. <i>Chemical Engineering Communications</i> , 2019, 206, 1676-1688.	2.6	1