Liang Wang

List of Publications by Year
in descending order

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97 papers	7,200 citations	53794 45 h-index	58581 82 g-index
116 all docs	116 docs citations	116 times ranked	7687 citing authors

#	Article	IF	Citations
1	Biocompatible Chemically Fueled Transient Polymer Nanoparticles for Temporally Programmable in Vivo Imaging. CCS Chemistry, 2023, 5, 669-681.	7.8	4
2	Zeolite Catalysts for Green Production of Caprolactam. Industrial & Engineering Chemistry Research, 2023, 62, 2217-2224.	3.7	10
3	Selective Oxidation of Methane into Methanol Under Mild Conditions. Chemical Research in Chinese Universities, 2022, 38, 671-676.	2.6	11
4	Structure-performance interplay of rhodium-based catalysts for syngas conversion to ethanol. Materials Chemistry Frontiers, 2022, 6, 663-679.	5.9	4
5	Alloyed PdCu Nanoparticles within Siliceous Zeolite Crystals for Catalytic Semihydrogenation. ACS Materials Au, 2022, 2, 313-320.	6.0	5
6	Supramolecularly regulated artificial transmembrane signal transduction for 'ON/OFF'-switchable enzyme catalysis. Chemical Communications, 2022, 58, 5725-5728.	4.1	11
7	Cu/ZnO/Al₂O₃ Catalyst Modulated by Zirconia with Enhanced Performance in CO₂ Hydrogenation to Methanol. Industrial & Engineering Chemistry Research, 2022, 61, 10446-10454.	3.7	16
8	â€œOn/Offâ€•Switchable Sequential Light-Harvesting Systems Based on Controllable Protein Nanosheets for Regulation of Photocatalysis. ACS Nano, 2022, 16, 8012-8021.	14.6	23
9	Fischerâ€“Tropsch synthesis to olefins boosted by MFI zeolite nanosheets. Nature Nanotechnology, 2022, 17, 714-720.	31.5	51
10	Fischer-Tropsch reaction within zeolite crystals for selective formation of gasoline-ranged hydrocarbons. Journal of Energy Chemistry, 2021, 54, 429-433.	12.9	30
11	Bioinspired artificial nanochannels: construction and application. Materials Chemistry Frontiers, 2021, 5, 1610-1631.	5.9	18
12	Enhanced catalytic performance of methane combustion over zeolite-supported Pd catalysts with the lanthanum. Catalysis Today, 2021, 364, 16-20.	4.4	16
13	Direct Synthesis of Pure Aqueous H₂O₂ Solution within Aluminosilicate Zeolite Crystals. ACS Catalysis, 2021, 11, 1946-1951.	11.2	28
14	Design of Cyclodextrin-Based Functional Systems for Biomedical Applications. Frontiers in Chemistry, 2021, 9, 635507.	3.6	30
15	Dynamically Tunable Ultrathin Protein Membranes for Controlled Molecular Separation. ACS Applied Materials & Interfaces, 2021, 13, 12359-12365.	8.0	4
16	Isolated boron in zeolite for oxidative dehydrogenation of propane. Science, 2021, 372, 76-80.	12.6	155
17	Zeolite Fixed Metal Nanoparticles: New Perspective in Catalysis. Accounts of Chemical Research, 2021, 54, 2579-2590.	15.6	117
18	Titanosilicate zeolite supported Pt nanoparticles with electronic metal-support interactions for efficient methanol steam reforming. Catalysis Today, 2021, 382, 42-47.	4.4	15

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19	Strong metalâ€“support interactions on gold nanoparticle catalysts achieved through Le Chatelierâ€™s principle. Nature Catalysis, 2021, 4, 418-424.	34.4	146
20	Boron Nanosheet-Supported Rh Catalysts for Hydrogen Evolution: A New Territory for the Strong Metal-Support Interaction Effect. Nano-Micro Letters, 2021, 13, 138.	27.0	37
21	Product selectivity controlled by manganese oxide crystals in catalytic ammoxidation. Chinese Journal of Catalysis, 2021, 42, 2164-2172.	14.0	11
22	Tuning product selectivity in CO₂hydrogenation over metal-based catalysts. Chemical Science, 2021, 12, 14660-14673.	7.4	38
23	Efficient adjustment of product selectivity using controllable Pd nanoparticles in nitroarene hydrogenation. Particuology, 2020, 48, 13-18.	3.6	4
24	Hydrophobic zeolite modification for in situ peroxide formation in methane oxidation to methanol. Science, 2020, 367, 193-197.	12.6	470
25	Light-powered and transient peptide two-dimensional assembly driven by trans-to-cis isomerization of azobenzene side chains. Chemical Communications, 2020, 56, 1867-1870.	4.1	21
26	Metal@Zeolite Hybrid Materials for Catalysis. ACS Central Science, 2020, 6, 1685-1697.	11.3	146
27	Dispersed Nickel Boosts Catalysis by Copper in CO₂ Hydrogenation. ACS Catalysis, 2020, 10, 9261-9270.	11.2	52
28	NbOPO₄Supported Rh Nanoparticles with Strong Metalâ€“Support Interactions for Selective CO₂Hydrogenation. ChemSusChem, 2020, 13, 6300-6306.	6.8	19
29	Coking-Resistant Iron Catalyst in Ethane Dehydrogenation Achieved through Siliceous Zeolite Modulation. Journal of the American Chemical Society, 2020, 142, 16429-16436.	13.7	120
30	Strong Oxideâ€“Support Interactions Accelerate Selective Dehydrogenation of Propane by Modulating the Surface Oxygen. ACS Catalysis, 2020, 10, 10559-10569.	11.2	35
31	Side-Chain Length Dependence of Youngâ€™s Modulus and Strength in Crystalline Poly(3-alkylthiophene) Nanofibers. Macromolecules, 2020, 53, 10061-10068.	4.8	10
32	Atomically Dispersed Ru on Manganese Oxide Catalyst Boosts Oxidative Cyanation. ACS Catalysis, 2020, 10, 6299-6308.	11.2	51
33	Synthesis of Aluminophosphate Molecular Sieves in Alkaline Media. Chemistry - A European Journal, 2020, 26, 11408-11411.	3.3	5
34	Solvent-free crystallization of ZSM-5 zeolite on SiC foam as a monolith catalyst for biofuel upgrading. Chinese Journal of Catalysis, 2020, 41, 1118-1124.	14.0	12
35	Silica accelerates the selective hydrogenation of CO2 to methanol on cobalt catalysts. Nature Communications, 2020, 11, 1033.	12.8	124
36	Direct Conversion of Syngas to Ethanol within Zeolite Crystals. CheM, 2020, 6, 646-657.	11.7	123

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37	Mesoporous Coâ€Al oxide nanosheets as highly efficient catalysts for CO oxidation. AICHE Journal, 2020, 66, e16923.	3.6	8
38	Novel shielding and synergy effects of Mn-Ce oxides confined in mesoporous zeolite for low temperature selective catalytic reduction of NOx with enhanced SO2/H2O tolerance. Journal of Hazardous Materials, 2020, 396, 122592.	12.4	79
39	Hierarchical zeolite enveloping Pd-CeO2 nanowires: An efficient adsorption/catalysis bifunctional catalyst for low temperature propane total degradation. Chemical Engineering Journal, 2020, 393, 124717.	12.7	62
40	Aerobic Activation of Câ€H Bond in Amines Over a Nanorod Manganese Oxide Catalyst. ChemCatChem, 2019, 11, 401-406.	3.7	14
41	Solvent-Free Synthesis of Coreâ€“Shell Zn/ZSM-5@Silicalite-1 Catalyst for Selective Conversion of Methanol to BTX Aromatics. Industrial & Engineering Chemistry Research, 2019, 58, 15453-15458.	3.7	36
42	Biomimetic Pulsating Vesicles with Both pH-Tunable Membrane Permeability and Light-Triggered Disassemblyâ€“Re-assembly Behaviors Prepared by Supra-Amphiphilic Helices. ACS Applied Materials & Interfaces, 2019, 11, 30566-30574.	8.0	15
43	New Strategies for the Preparation of Sinterâ€Resistant Metalâ€Nanoparticleâ€Based Catalysts. Advanced Materials, 2019, 31, e1901905.	21.0	203
44	Cobaltâ€“Nickel Catalysts for Selective Hydrogenation of Carbon Dioxide into Ethanol. ACS Catalysis, 2019, 9, 11335-11340.	11.2	85
45	N-Oxyl Radicals Trapped on Zeolite Surface Accelerate Photocatalysis. ACS Catalysis, 2019, 9, 10448-10453.	11.2	15
46	Wet-Chemistry Strong Metalâ€“Support Interactions in Titania-Supported Au Catalysts. Journal of the American Chemical Society, 2019, 141, 2975-2983.	13.7	280
47	Product Selectivity Controlled by Nanoporous Environments in Zeolite Crystals Enveloping Rhodium Nanoparticle Catalysts for CO₂ Hydrogenation. Journal of the American Chemical Society, 2019, 141, 8482-8488.	13.7	242
48	Selective Hydrogenation of CO₂ to Ethanol over Cobalt Catalysts. Angewandte Chemie - International Edition, 2018, 57, 6104-6108.	13.8	241
49	Selective Hydrogenation of CO₂ to Ethanol over Cobalt Catalysts. Angewandte Chemie, 2018, 130, 6212-6216.	2.0	34
50	Single-site catalyst promoters accelerate metal-catalyzed nitroarene hydrogenation. Nature Communications, 2018, 9, 1362.	12.8	161
51	Hydrophobic Zeolite Containing Titania Particles as Wettability-Selective Catalyst for Formaldehyde Removal. ACS Catalysis, 2018, 8, 5250-5254.	11.2	50
52	Rational construction of metal nanoparticles fixed in zeolite crystals as highly efficient heterogeneous catalysts. Nano Today, 2018, 20, 74-83.	11.9	94
53	Subnanometric Gold Clusters on CeO₂ with Maximized Strong Metalâ€“Support Interactions for Aerobic Oxidation of Carbonâ€“Hydrogen Bonds. ACS Sustainable Chemistry and Engineering, 2018, 6, 6418-6424.	6.7	15
54	Importance of Zeolite Wettability for Selective Hydrogenation of Furfural over Pd@Zeolite Catalysts. ACS Catalysis, 2018, 8, 474-481.	11.2	146

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55	Interfacial CoO_x Layers on TiO₂ as an Efficient Catalyst for Solventâ€Free Aerobic Oxidation of Hydrocarbons. ChemSusChem, 2018, 11, 3965-3974.	6.8	12
56	Sinter-resistant metal nanoparticle catalysts achieved by immobilization within zeolite crystals via seed-directed growth. Nature Catalysis, 2018, 1, 540-546.	34.4	297
57	Chemical Sensing Systems that Utilize Soft Electronics on Thin Elastomeric Substrates with Open Cellular Designs. Advanced Functional Materials, 2017, 27, 1605476.	14.9	64
58	Solvent-free and Mesoporogen-free Synthesis of Mesoporous Aluminosilicate ZSM-5 Zeolites with Superior Catalytic Properties in the Methanol-to-Olefins Reaction. Industrial & Engineering Chemistry Research, 2017, 56, 1450-1460.	3.7	49
59	A Pd@Zeolite Catalyst for Nitroarene Hydrogenation with High Product Selectivity by Sterically Controlled Adsorption in the Zeolite Micropores. Angewandte Chemie - International Edition, 2017, 56, 9747-9751.	13.8	248
60	A Pd@Zeolite Catalyst for Nitroarene Hydrogenation with High Product Selectivity by Sterically Controlled Adsorption in the Zeolite Micropores. Angewandte Chemie, 2017, 129, 9879-9883.	2.0	81
61	Eco-friendly photocatalysts achieved by zeolite fixing. Applied Catalysis B: Environmental, 2017, 212, 193-200.	20.2	30
62	Controllable cyanation of carbon-hydrogen bonds by zeolite crystals over manganese oxide catalyst. Nature Communications, 2017, 8, 15240.	12.8	57
63	Innentitelbild: A Pd@Zeolite Catalyst for Nitroarene Hydrogenation with High Product Selectivity by Sterically Controlled Adsorption in the Zeolite Micropores (Angew. Chem. 33/2017). Angewandte Chemie, 2017, 129, 9756-9756.	2.0	3
64	Soft Elastomers with Ionic Liquidâ€Filled Cavities as Strain Isolating Substrates for Wearable Electronics. Small, 2017, 13, 1602954.	10.0	82
65	Strong Metalâ€“Support Interactions Achieved by Hydroxide-to-Oxide Support Transformation for Preparation of Sinter-Resistant Gold Nanoparticle Catalysts. ACS Catalysis, 2017, 7, 7461-7465.	11.2	158
66	17â€…Delivery of betulinic acid lipid nanoparticles assembled by a microfluidic device. , 2016, , .		0
67	Activity and Selectivity in Nitroarene Hydrogenation over Au Nanoparticles on the Edge/Corner of Anatase. ACS Catalysis, 2016, 6, 4110-4116.	11.2	79
68	Design of Strainâ€Limiting Substrate Materials for Stretchable and Flexible Electronics. Advanced Functional Materials, 2016, 26, 5345-5351.	14.9	92
69	Product Selectivity Controlled by Zeolite Crystals in Biomass Hydrogenation over a Palladium Catalyst. Journal of the American Chemical Society, 2016, 138, 7880-7883.	13.7	262
70	Construction of a smart temperature-responsive GPx mimic based on the self-assembly of supra-amphiphiles. Soft Matter, 2016, 12, 1192-1199.	2.7	24
71	Solventâ€Free Synthesis of Zeolite Crystals Encapsulating Goldâ€“Palladium Nanoparticles for the Selective Oxidation of Bioethanol. ChemSusChem, 2015, 8, 2867-2871.	6.8	56
72	Task-Specific Design of Porous Polymer Heterogeneous Catalysts beyond Homogeneous Counterparts. ACS Catalysis, 2015, 5, 4556-4567.	11.2	152

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73	Two-dimensional gold nanostructures with high activity for selective oxidation of carbonâ€“hydrogen bonds. Nature Communications, 2015, 6, 6957.	12.8	133
74	Mesoporous ZSM-5 Zeolite-Supported Ru Nanoparticles as Highly Efficient Catalysts for Upgrading Phenolic Biomolecules. ACS Catalysis, 2015, 5, 2727-2734.	11.2	147
75	A mechanically driven form of Kirigami as a route to 3D mesostructures in micro/nanomembranes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11757-11764.	7.1	429
76	Efficient biomass transformations catalyzed by graphene-like nanoporous carbons functionalized with strong acid ionic liquids and sulfonic groups. Green Chemistry, 2015, 17, 480-489.	9.0	64
77	A significant enhancement of catalytic activities in oxidation with H2O2 over the TS-1 zeolite by adjusting the catalyst wettability. Chemical Communications, 2014, 50, 2012.	4.1	66
78	Temperature-Driven Switching of the Catalytic Activity of Artificial Glutathione Peroxidase by the Shape Transition between the Nanotubes and Vesicle-like Structures. Langmuir, 2014, 30, 4013-4018.	3.5	41
79	Superior Performance in Catalytic Combustion of Toluene over KZSM-5 Zeolite Supported Platinum Catalyst. Catalysis Letters, 2014, 144, 1851-1859.	2.6	49
80	Co-salen functionalized on graphene as an efficient heterogeneous catalyst for cyclohexene oxidation. Journal of Energy Chemistry, 2013, 22, 48-51.	12.9	13
81	Ascorbic acid assisted green route for synthesis of water dispersible carbon dots. Chemical Research in Chinese Universities, 2013, 29, 401-403.	2.6	18
82	Positively charged bulk Au particles as an efficient catalyst for oxidation of styrene with molecular oxygen. Chemical Communications, 2013, 49, 3449.	4.1	22
83	Dual stimuli-responsive supramolecular pseudo-polyrotaxane hydrogels. Soft Matter, 2013, 9, 4635.	2.7	40
84	Generalized and high temperature synthesis of a series of crystalline mesoporous metal oxides based nanocomposites with enhanced catalytic activities for benzene combustion. Journal of Materials Chemistry A, 2013, 1, 4089.	10.3	30
85	Copperâ€Incorporated Porous Polydivinylbenzene as Efficient and Recyclable Heterogeneous Catalyst in Ullmann Biaryl Ether Coupling. ChemCatChem, 2013, 5, 1606-1613.	3.7	29
86	Organotemplate-free and one-pot fabrication of nano-rod assembled plate-like micro-sized mordenite crystals. Journal of Materials Chemistry, 2012, 22, 6564.	6.7	28
87	Supported Au nanoparticles as efficient catalysts for aerobic homocoupling of phenylboronic acid. Chemical Communications, 2012, 48, 5476.	4.1	66
88	Mgâ€Al Mixed Oxides Supported Bimetallic Auâ€Pd Nanoparticles with Superior Catalytic Properties in Aerobic Oxidation of Benzyl Alcohol and Glycerol. Chinese Journal of Chemistry, 2012, 30, 2189-2197.	4.9	17
89	Organotemplate-free and seed-directed synthesis of ZSM-34 zeolite with good performance in methanol-to-olefins. Journal of Materials Chemistry, 2012, 22, 12238.	6.7	39
90	Self-assembled nanostructures from C60-containing supramolecular complex: its stimuli-responsive reversible transition and biological antioxidative capacity. New Journal of Chemistry, 2011, 35, 2632.	2.8	6

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91	Construction of a smart glutathione peroxidase mimic with temperature responsive activity based on block copolymer. Soft Matter, 2011, 7, 2521.	2.7	23
92	â€œSolvent-freeâ€•synthesis of thermally stable and hierarchically porous aluminophosphates (SF-APOs) and heteroatom-substituted aluminophosphates (SF-MAPOs). Journal of Materials Chemistry, 2011, 21, 12026.	6.7	39
93	Interlayerâ€Expanded Microporous Titanosilicate Catalysts with Functionalized Hydroxyl Groups. ChemCatChem, 2011, 3, 1442-1446.	3.7	56
94	Stable Bulky Particles Formed by TSâ€1 Zeolite Nanocrystals in the Presence of H₂O₂. ChemCatChem, 2010, 2, 407-412.	3.7	47
95	Pyrrolidone-modified SBA-15 supported Au nanoparticles with superior catalytic properties in aerobic oxidation of alcohols. Chemical Communications, 2010, 46, 5003.	4.1	57
96	High-temperature synthesis of ordered mesoporous silicas from solo hydrocarbonsurfactants and understanding of their synthetic mechanisms. Journal of Materials Chemistry, 2009, 19, 661-665.	6.7	39
97	Palladium-Catalyzed Homocoupling and Cross-Coupling Reactions of Aryl Halides in Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlo	3.2	176