

Ning Yan

List of Publications by Citations

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242
papers

13,990
citations

62
h-index

110
g-index

279
ext. papers

16,798
ext. citations

9.1
avg, IF

7.24
L-index

#	Paper	IF	Citations
242	Sustainability: Don't waste seafood waste. <i>Nature</i> , 2015 , 524, 155-7	50.4	524
241	Selective degradation of wood lignin over noble-metal catalysts in a two-step process. <i>ChemSusChem</i> , 2008 , 1, 626-9	8.3	440
240	Ni-based bimetallic heterogeneous catalysts for energy and environmental applications. <i>Energy and Environmental Science</i> , 2016 , 9, 3314-3347	35.4	413
239	Thermally stable single atom Pt/m-AlO for selective hydrogenation and CO oxidation. <i>Nature Communications</i> , 2017 , 8, 16100	17.4	390
238	A Series of NiM (M = Ru, Rh, and Pd) Bimetallic Catalysts for Effective Lignin Hydrogenolysis in Water. <i>ACS Catalysis</i> , 2014 , 4, 1574-1583	13.1	351
237	Ultrathin rhodium nanosheets. <i>Nature Communications</i> , 2014 , 5, 3093	17.4	350
236	Transition metal nanoparticle catalysis in green solvents. <i>Coordination Chemistry Reviews</i> , 2010 , 254, 1179-1218	23.2	350
235	Stabilizing a Platinum Single-Atom Catalyst on Supported Phosphomolybdic Acid without Compromising Hydrogenation Activity. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8319-23	16.4	294
234	Hydrodeoxygenation of lignin-derived phenols into alkanes by using nanoparticle catalysts combined with Brønsted acidic ionic liquids. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5549-53	16.4	281
233	One-step conversion of cellobiose to C6-alcohols using a ruthenium nanocluster catalyst. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8714-5	16.4	261
232	Toward understanding the growth mechanism: tracing all stable intermediate species from reduction of Au(I)-thiolate complexes to evolution of Au nanoclusters. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10577-80	16.4	255
231	Balancing the rate of cluster growth and etching for gram-scale synthesis of thiolate-protected Au(25) nanoclusters with atomic precision. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4623-7	16.4	229
230	Recent advances in the synthesis and catalytic applications of ligand-protected, atomically precise metal nanoclusters. <i>Coordination Chemistry Reviews</i> , 2016 , 322, 1-29	23.2	229
229	Highly efficient, NiAu-catalyzed hydrogenolysis of lignin into phenolic chemicals. <i>Green Chemistry</i> , 2014 , 16, 2432-2437	10	201
228	Scalable and Precise Synthesis of Thiolated Au ₁₀ , Au ₁₅ , Au ₁₈ , and Au ₂₅ Nanoclusters via pH Controlled CO Reduction. <i>Chemistry of Materials</i> , 2013 , 25, 946-952	9.6	197
227	Selective formic acid decomposition for high-pressure hydrogen generation: a mechanistic study. <i>Chemistry - A European Journal</i> , 2009 , 15, 3752-60	4.8	197
226	A novel platinum nanocatalyst for the oxidation of 5-Hydroxymethylfurfural into 2,5-Furandicarboxylic acid under mild conditions. <i>Journal of Catalysis</i> , 2014 , 315, 67-74	7.3	192

225	Production of Primary Amines by Reductive Amination of Biomass-Derived Aldehydes/Ketones. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3050-3054	16.4	166
224	Direct conversion of chitin into a N-containing furan derivative. <i>Green Chemistry</i> , 2014 , 16, 2204-2212	10	163
223	Rational control of nano-scale metal-catalysts for biomass conversion. <i>Chemical Communications</i> , 2016 , 52, 6210-24	5.8	162
222	Aqueous-phase Fischer-Tropsch synthesis with a ruthenium nanocluster catalyst. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 746-9	16.4	154
221	Roles of thiolate ligands in the synthesis, properties and catalytic application of gold nanoclusters. <i>Coordination Chemistry Reviews</i> , 2018 , 368, 60-79	23.2	153
220	Advances in the Rational Design of Rhodium Nanoparticle Catalysts: Control via Manipulation of the Nanoparticle Core and Stabilizer. <i>ACS Catalysis</i> , 2012 , 2, 1057-1069	13.1	148
219	Cycloaddition of CO ₂ to epoxides catalyzed by imidazolium-based polymeric ionic liquids. <i>Green Chemistry</i> , 2013 , 15, 1584	10	147
218	Shell Biorefinery: Dream or Reality?. <i>Chemistry - A European Journal</i> , 2016 , 22, 13402-21	4.8	146
217	Progress in La-doped SrTiO ₃ (LST)-based anode materials for solid oxide fuel cells. <i>RSC Advances</i> , 2014 , 4, 118-131	3.7	130
216	Direct Synthesis of Hierarchically Porous Metal-Organic Frameworks with High Stability and Strong Brønsted Acidity: The Decisive Role of Hafnium in Efficient and Selective Fructose Dehydration. <i>Chemistry of Materials</i> , 2016 , 28, 2659-2667	9.6	127
215	The support effect on the size and catalytic activity of thiolated Au nanoclusters as precatalysts. <i>Nanoscale</i> , 2015 , 7, 6325-33	7.7	122
214	Synthesis of a Sulfonated Two-Dimensional Covalent Organic Framework as an Efficient Solid Acid Catalyst for Biobased Chemical Conversion. <i>ChemSusChem</i> , 2015 , 8, 3208-12	8.3	122
213	How strong is hydrogen bonding in ionic liquids? Combined X-ray crystallographic, infrared/Raman spectroscopic, and density functional theory study. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 9094-105	3.4	119
212	Downstream processing of lignin derived feedstock into end products. <i>Chemical Society Reviews</i> , 2020 , 49, 5510-5560	58.5	117
211	Transformation of Chitin and Waste Shrimp Shells into Acetic Acid and Pyrrole. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 3912-3920	8.3	117
210	Base promoted hydrogenolysis of lignin model compounds and organosolv lignin over metal catalysts in water. <i>Chemical Engineering Science</i> , 2015 , 123, 155-163	4.4	115
209	Transforming Energy with Single-Atom Catalysts. <i>Joule</i> , 2019 , 3, 2897-2929	27.8	115
208	In situ spectroscopy-guided engineering of rhodium single-atom catalysts for CO oxidation. <i>Nature Communications</i> , 2019 , 10, 1330	17.4	111

207	Graphene Oxide Catalyzed C-H Bond Activation: The Importance of Oxygen Functional Groups for Biaryl Construction. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3124-8	16.4	108
206	Catalytic amino acid production from biomass-derived intermediates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5093-5098	11.5	107
205	Sustainable Routes for the Synthesis of Renewable Heteroatom-Containing Chemicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5694-5707	8.3	104
204	Pd-Pb Alloy Nanocrystals with Tailored Composition for Semihydrogenation: Taking Advantage of Catalyst Poisoning. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8271-4	16.4	103
203	Production of Terephthalic Acid from Corn Stover Lignin. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4934-4937	16.4	95
202	Biphasic hydrogenation over PVP stabilized Rh nanoparticles in hydroxyl functionalized ionic liquids. <i>Inorganic Chemistry</i> , 2008 , 47, 7444-6	5.1	95
201	Base-catalysed, one-step mechanochemical conversion of chitin and shrimp shells into low molecular weight chitosan. <i>Green Chemistry</i> , 2017 , 19, 2783-2792	10	94
200	Atomically Dispersed Pt-Polyoxometalate Catalysts: How Does Metal-Support Interaction Affect Stability and Hydrogenation Activity?. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8185-8197	16.4	90
199	Thermoresponsive polymers based on poly-vinylpyrrolidone: applications in nanoparticle catalysis. <i>Chemical Communications</i> , 2010 , 46, 1631-3	5.8	88
198	Kinetically controlled synthesis of two-dimensional Zr/Hf metal-organic framework nanosheets via a modulated hydrothermal approach. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8954-8963	13	85
197	Ionic-liquid-like copolymer stabilized nanocatalysts in ionic liquids: II. Rhodium-catalyzed hydrogenation of arenes. <i>Journal of Catalysis</i> , 2007 , 250, 33-40	7.3	83
196	Synthesis and characterization of an extractive-based bio-epoxy resin from beetle infested <i>Pinus contorta</i> bark. <i>Green Chemistry</i> , 2014 , 16, 3483-3493	10	81
195	Effect of Treatment Methods on Chitin Structure and Its Transformation into Nitrogen-Containing Chemicals. <i>ChemPlusChem</i> , 2015 , 80, 1565-1572	2.8	78
194	Sulfated Mesoporous Niobium Oxide Catalyzed 5-Hydroxymethylfurfural Formation from Sugars. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 14225-14233	3.9	77
193	Biomass valorisation over metal-based solid catalysts from nanoparticles to single atoms. <i>Chemical Society Reviews</i> , 2020 , 49, 3764-3782	58.5	76
192	Acid-Catalyzed Chitin Liquefaction in Ethylene Glycol. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2081-2089	8.3	76
191	Highly selective hydrogenation of aromatic chloronitro compounds to aromatic chloroamines with ionic-liquid-like copolymer stabilized platinum nanocatalysts in ionic liquids. <i>Green Chemistry</i> , 2010 , 12, 228	10	75
190	Nanometallic chemistry: deciphering nanoparticle catalysis from the perspective of organometallic chemistry and homogeneous catalysis. <i>Dalton Transactions</i> , 2013 , 42, 13294-304	4.3	74

189	Conversion of chitin and N-acetyl-D-glucosamine into a N-containing furan derivative in ionic liquids. <i>RSC Advances</i> , 2015 , 5, 20073-20080	3.7	73
188	Conversion of chitin derived N-acetyl-D-glucosamine (NAG) into polyols over transition metal catalysts and hydrogen in water. <i>Green Chemistry</i> , 2015 , 17, 1024-1031	10	72
187	Development of palladium surface-enriched heteronuclear Au-Pd nanoparticle dehalogenation catalysts in an ionic liquid. <i>Chemistry - A European Journal</i> , 2013 , 19, 1227-34	4.8	70
186	Electrostatic Stabilization of Single-Atom Catalysts by Ionic Liquids. <i>CheM</i> , 2019 , 5, 3207-3219	16.2	68
185	Chitin-Derived Mesoporous, Nitrogen-Containing Carbon for Heavy-Metal Removal and Styrene Epoxidation. <i>ChemPlusChem</i> , 2015 , 80, 1556-1564	2.8	68
184	Tuning the Chemoselectivity of Rh Nanoparticle Catalysts by Site-Selective Poisoning with Phosphine Ligands: The Hydrogenation of Functionalized Aromatic Compounds. <i>ACS Catalysis</i> , 2012 , 2, 201-207	13.1	68
183	Acid-free regioselective aminocarbonylation of alkenes. <i>Chemical Communications</i> , 2014 , 50, 7848-51	5.8	66
182	Rhodium nanoparticle catalysts stabilized with a polymer that enhances stability without compromising activity. <i>Chemical Communications</i> , 2011 , 47, 2529-31	5.8	65
181	Harnessing the Wisdom in Colloidal Chemistry to Make Stable Single-Atom Catalysts. <i>Advanced Materials</i> , 2018 , 30, e1802304	24	62
180	pH-Sensitive gold nanoparticle catalysts for the aerobic oxidation of alcohols. <i>Inorganic Chemistry</i> , 2011 , 50, 11069-74	5.1	62
179	Defunctionalization of fructose and sucrose: Iron-catalyzed production of 5-hydroxymethylfurfural from fructose and sucrose. <i>Catalysis Today</i> , 2011 , 175, 524-527	5.3	62
178	Effective deoxygenation of fatty acids over Ni(OAc) ₂ in the absence of H ₂ and solvent. <i>Green Chemistry</i> , 2015 , 17, 4198-4205	10	61
177	Single-step conversion of lignin monomers to phenol: Bridging the gap between lignin and high-value chemicals. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 1445-1452	11.3	60
176	Enhanced conversion of carbohydrates to the platform chemical 5-hydroxymethylfurfural using designer ionic liquids. <i>ChemSusChem</i> , 2014 , 7, 1647-54	8.3	60
175	Amide bond formation via C(sp ³)-H bond functionalization and CO insertion. <i>Chemical Communications</i> , 2014 , 50, 341-3	5.8	59
174	Stabilizing a Platinum ¹ Single-Atom Catalyst on Supported Phosphomolybdic Acid without Compromising Hydrogenation Activity. <i>Angewandte Chemie</i> , 2016 , 128, 8459-8463	3.6	59
173	Formic acid-mediated liquefaction of chitin. <i>Green Chemistry</i> , 2016 , 18, 5050-5058	10	58
172	A remarkable anion effect on palladium nanoparticle formation and stabilization in hydroxyl-functionalized ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 6026-33	3.6	57

171	Toward the Shell Biorefinery: Processing Crustacean Shell Waste Using Hot Water and Carbonic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5532-5542	8.3	56
170	Enhanced rate of arene hydrogenation with imidazolium functionalized bipyridine stabilized rhodium nanoparticle catalysts. <i>Inorganic Chemistry</i> , 2011 , 50, 717-9	5.1	55
169	Mechanochemical Amorphization of β -Chitin and Conversion into Oligomers of N-Acetyl-d-glucosamine. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 1662-1669	8.3	54
168	Expanding the Boundary of Biorefinery: Organonitrogen Chemicals from Biomass. <i>Accounts of Chemical Research</i> , 2021 , 54, 1711-1722	24.3	53
167	A Metal-Free, Carbon-Based Catalytic System for the Oxidation of Lignin Model Compounds and Lignin. <i>ChemPlusChem</i> , 2014 , 79, 825-834	2.8	52
166	Producing Bark-based Polyols through Liquefaction: Effect of Liquefaction Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 534-540	8.3	52
165	Solvent-Enhanced Coupling of Sterically Hindered Reagents and Aryl Chlorides using Functionalized Ionic Liquids. <i>Organometallics</i> , 2009 , 28, 937-939	3.8	52
164	Zeolite-Encaged Pd-Mn Nanocatalysts for CO Hydrogenation and Formic Acid Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20183-20191	16.4	52
163	Production of Glucosamine from Chitin by Co-solvent Promoted Hydrolysis and Deacetylation. <i>ChemCatChem</i> , 2017 , 9, 2790-2796	5.2	51
162	Tuning the Accessibility and Activity of Au (SR) Nanocluster Catalysts through Ligand Engineering. <i>Chemistry - A European Journal</i> , 2016 , 22, 14816-14820	4.8	51
161	Soft, Oxidative Stripping of Alkyl Thiolate Ligands from Hydroxyapatite-Supported Gold Nanoclusters for Oxidation Reactions. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 532-9	4.5	51
160	Aqueous-Phase Fischer-Tropsch Synthesis with a Ruthenium Nanocluster Catalyst. <i>Angewandte Chemie</i> , 2008 , 120, 758-761	3.6	51
159	Organonitrogen Chemicals from Oxygen-Containing Feedstock over Heterogeneous Catalysts. <i>ACS Catalysis</i> , 2020 , 10, 311-335	13.1	51
158	Highly Compressible and Hydrophobic Anisotropic Aerogels for Selective Oil/Organic Solvent Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 332-340	8.3	51
157	Atomically Dispersed Rhodium on Self-Assembled Phosphotungstic Acid: Structural Features and Catalytic CO Oxidation Properties. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 3578-3587	3.9	50
156	Production of Primary Amines by Reductive Amination of Biomass-Derived Aldehydes/Ketones. <i>Angewandte Chemie</i> , 2017 , 129, 3096-3100	3.6	50
155	Hydrodeoxygenation of Lignin-Derived Phenols into Alkanes by Using Nanoparticle Catalysts Combined with Brønsted Acidic Ionic Liquids. <i>Angewandte Chemie</i> , 2010 , 122, 5681-5685	3.6	50
154	Recent Progress in Chemoselective Hydrogenation of α,β -Unsaturated Aldehyde to Unsaturated Alcohol Over Nanomaterials. <i>Current Organic Chemistry</i> , 2013 , 17, 400-413	1.7	50

153	Towards the Circular Economy: Converting Aromatic Plastic Waste Back to Arenes over a Ru/Nb O Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5527-5535	16.4	49
152	Immediate hydroxylation of arenes to phenols via V-containing all-silica ZSM-22 zeolite triggered non-radical mechanism. <i>Nature Communications</i> , 2018 , 9, 2931	17.4	47
151	Balancing the Rate of Cluster Growth and Etching for Gram-Scale Synthesis of Thiolate-Protected Au ₂₅ Nanoclusters with Atomic Precision. <i>Angewandte Chemie</i> , 2014 , 126, 4711-4715	3.6	47
150	Towards the Shell Biorefinery: Sustainable Synthesis of the Anticancer Alkaloid Proximicin A From Chitin. <i>ChemSusChem</i> , 2018 , 11, 532-535	8.3	47
149	Support-dependent rate-determining step of CO ₂ hydrogenation to formic acid on metal oxide supported Pd catalysts. <i>Journal of Catalysis</i> , 2019 , 376, 57-67	7.3	46
148	Solubility adjustable nanoparticles stabilized by a novel PVP based family: synthesis, characterization and catalytic properties. <i>Chemical Communications</i> , 2009 , 4423-5	5.8	46
147	Self-assembled iron-containing mordenite monolith for carbon dioxide sieving. <i>Science</i> , 2021 , 373, 315-320	3.3	45
146	Popping of graphite oxide: application in preparing metal nanoparticle catalysts. <i>Advanced Materials</i> , 2015 , 27, 4688-94	24	43
145	AgPd and CuOPd nanoparticles in a hydroxyl-group functionalized ionic liquid: synthesis, characterization and catalytic performance. <i>Catalysis Science and Technology</i> , 2015 , 5, 1683-1692	5.5	43
144	Direct Conversion of Mono- and Polysaccharides into 5-Hydroxymethylfurfural Using Ionic-Liquid Mixtures. <i>ChemSusChem</i> , 2016 , 9, 2089-96	8.3	43
143	Single-atom Pd dispersed on nanoscale anatase TiO ₂ for the selective hydrogenation of phenylacetylene. <i>Science China Materials</i> , 2020 , 63, 982-992	7.1	42
142	Biobased Phenol Formaldehyde Resins Derived from Beetle-Infested Pine Barks Structure and Composition. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 91-101	8.3	42
141	Visible-light-driven amino acids production from biomass-based feedstocks over ultrathin CdS nanosheets. <i>Nature Communications</i> , 2020 , 11, 4899	17.4	42
140	Efficient cleavage of aryl ether C-O linkages by Rh-Ni and Ru-Ni nanoscale catalysts operating in water. <i>Chemical Science</i> , 2018 , 9, 5530-5535	9.4	41
139	Demethylation of Wheat Straw Alkali Lignin for Application in Phenol Formaldehyde Adhesives. <i>Polymers</i> , 2016 , 8,	4.5	41
138	Production of Terephthalic Acid from Corn Stover Lignin. <i>Angewandte Chemie</i> , 2019 , 131, 4988-4991	3.6	40
137	Identification of an Active NiCu Catalyst for Nitrile Synthesis from Alcohol. <i>ACS Catalysis</i> , 2019 , 9, 6681-6691	6.9	40
136	Polyurethane foams derived from liquefied mountain pine beetle-infested barks. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 2849-2858	2.9	40

135	Ultralight, hydrophobic, anisotropic bamboo-derived cellulose nanofibrils aerogels with excellent shape recovery via freeze-casting. <i>Carbohydrate Polymers</i> , 2019 , 208, 232-240	10.3	39
134	Direct aerobic oxidative homocoupling of benzene to biphenyl over functional porous organic polymer supported atomically dispersed palladium catalyst. <i>Applied Catalysis B: Environmental</i> , 2017 , 209, 679-688	21.8	38
133	Ligands Modulate Reaction Pathway in the Hydrogenation of 4-Nitrophenol Catalyzed by Gold Nanoclusters. <i>ChemCatChem</i> , 2018 , 10, 395-402	5.2	38
132	High-temperature flame spray pyrolysis induced stabilization of Pt single-atom catalysts. <i>Applied Catalysis B: Environmental</i> , 2021 , 281, 119471	21.8	38
131	Insights into the Formation Mechanism of Rhodium Nanocubes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15076-15086	3.8	37
130	Evaluation of ionic liquid soluble imidazolium tetrachloropalladate pre-catalysts in Suzuki coupling reactions. <i>Catalysis Today</i> , 2012 , 183, 172-177	5.3	37
129	A remarkable solvent effect on reductive amination of ketones. <i>Molecular Catalysis</i> , 2018 , 454, 87-93	3.3	37
128	Upcycling chitin-containing waste into organonitrogen chemicals via an integrated process. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 7719-7728	11.5	36
127	Promoting heterogeneous catalysis beyond catalyst design. <i>Chemical Science</i> , 2020 , 11, 1456-1468	9.4	36
126	Transformation of biomass via the selective hydrogenolysis of CO bonds by nanoscale metal catalysts. <i>Current Opinion in Chemical Engineering</i> , 2013 , 2, 178-183	5.4	36
125	One-Step Synthesis of N-Heterocyclic Compounds from Carbohydrates over Tungsten-Based Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 11096-11104	8.3	35
124	Room temperature, near-quantitative conversion of glucose into formic acid. <i>Green Chemistry</i> , 2019 , 21, 6089-6096	10	35
123	Production of organic acids from biomass resources. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2016 , 2, 54-58	7.9	35
122	Rh nanoparticles with NiO _x surface decoration for selective hydrogenolysis of CO bond over arene hydrogenation. <i>Journal of Molecular Catalysis A</i> , 2016 , 422, 188-197		34
121	Novel Catalytic Systems to Convert Chitin and Lignin into Valuable Chemicals. <i>Catalysis Surveys From Asia</i> , 2014 , 18, 164-176	2.8	33
120	Biomass valorisation over polyoxometalate-based catalysts. <i>Green Chemistry</i> , 2021 , 23, 18-36	10	33
119	Sorghum biomass: a novel renewable carbon source for industrial bioproducts. <i>Biofuels</i> , 2014 , 5, 159-174		32
118	Toward Functionalization of Thermoresponsive Poly(N-vinyl-2-pyrrolidone). <i>Macromolecules</i> , 2010 , 43, 9972-9981	5.5	32

117	Catalytic Production of Alanine from Waste Glycerol. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2289-2293	16.4	32
116	Biomass Liquefaction and Alkoxylation: A Review of Structural Characterization Methods for Bio-based Polyols. <i>Polymer Reviews</i> , 2017 , 57, 668-694	14	29
115	Zirconia phase effect in Pd/ZrO ₂ catalyzed CO ₂ hydrogenation into formate. <i>Molecular Catalysis</i> , 2019 , 475, 110461	3.3	29
114	Thermally responsive gold nanocatalysts based on a modified poly-vinylpyrrolidone. <i>Journal of Molecular Catalysis A</i> , 2013 , 371, 29-35		29
113	Aqueous-phase hydrogenation of alkenes and arenes: The growing role of nanoscale catalysts. <i>Catalysis Today</i> , 2015 , 247, 96-103	5.3	27
112	Haber-independent, diversity-oriented synthesis of nitrogen compounds from biorenewable chitin. <i>Green Chemistry</i> , 2020 , 22, 1978-1984	10	27
111	Simple preparation method for Mg/Al hydrotalcites as base catalysts. <i>Journal of Molecular Catalysis A</i> , 2016 , 423, 347-355		26
110	Towards Rational Design of Nanoparticle Catalysis in Ionic Liquids. <i>Catalysts</i> , 2013 , 3, 543-562	4	26
109	Facile one-pot synthesis of water-dispersible phosphate functionalized reduced graphene oxide toward high-performance energy storage devices. <i>Chemical Communications</i> , 2020 , 56, 1373-1376	5.8	26
108	Rationalization of solvation and stabilization of palladium nanoparticles in imidazolium-based ionic liquids by DFT and vibrational spectroscopy. <i>ChemPhysChem</i> , 2012 , 13, 1781-90	3.2	25
107	Integrating Biomass into the Organonitrogen Chemical Supply Chain: Production of Pyrrole and d-Proline from Furfural. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19846-19850	16.4	25
106	Lignin-Based Polyurethane: Recent Advances and Future Perspectives. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2000492	4.8	25
105	Application of Ionic Liquids in the Downstream Processing of Lignocellulosic Biomass. <i>Chimia</i> , 2015 , 69, 592-6	1.3	24
104	Pd/Bb Alloy Nanocrystals with Tailored Composition for Semihydrogenation: Taking Advantage of Catalyst Poisoning. <i>Angewandte Chemie</i> , 2015 , 127, 8389-8392	3.6	24
103	Chitin hydrolysis in acidified molten salt hydrates. <i>Green Chemistry</i> , 2020 , 22, 5096-5104	10	23
102	Transformation of CO ₂ by using nanoscale metal catalysts: cases studies on the formation of formic acid and dimethylether. <i>Current Opinion in Chemical Engineering</i> , 2018 , 20, 86-92	5.4	23
101	Mesoporous Silica-Encaged Ultrafine Bimetallic Nanocatalysts for CO ₂ Hydrogenation to Formates. <i>ChemCatChem</i> , 2019 , 11, 5093-5097	5.2	21
100	Oxidant free conversion of alcohols to nitriles over Ni-based catalysts. <i>Catalysis Science and Technology</i> , 2019 , 9, 86-96	5.5	20

99	Catalyst: Is the Amino Acid a New Frontier for Biorefineries?. <i>CheM</i> , 2019 , 5, 739-741	16.2	20
98	Biobased Epoxy Synthesized from a Vanillin Derivative and Its Reinforcement Using Lignin-Containing Cellulose Nanofibrils. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 11215-11223	8.3	20
97	Solvolytic Liquefaction of Bark: Understanding the Role of Polyhydric Alcohols and Organic Solvents on Polyol Characteristics. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 851-861	8.3	20
96	Towards circular economy: integration of bio-waste into chemical supply chain. <i>Current Opinion in Chemical Engineering</i> , 2019 , 26, 148-156	5.4	20
95	Rapid nanoparticle-catalyzed hydrogenations in triphasic millireactors with facile catalyst recovery. <i>Green Chemistry</i> , 2014 , 16, 4654-4658	10	20
94	Oxidative Ring-Expansion of a Chitin-Derived Platform Enables Access to Unexplored 2-Amino Sugar Chemical Space. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 1355-1360	3.2	20
93	Nanocomposite of Nitrogen-Doped Graphene/Polyaniline for Enhanced Ammonia Gas Detection. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900552	4.6	19
92	Designed synthesis of MO (M = Zn, Fe, Sn, Ni, Mn, Co, Ce, Mg, Ag), Pt, and Au nanoparticles supported on hierarchical CuO hollow structures. <i>Nanoscale</i> , 2016 , 8, 19684-19695	7.7	19
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