

Junana Wei

List of Publications by Year in descending order

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110
papers

4,558
citations

101496

36
h-index

114418

63
g-index

116
all docs

116
docs citations

116
times ranked

3981
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic conversion of biomass-derived carbohydrates into fuels and chemicals via furanic aldehydes. RSC Advances, 2012, 2, 11184.	1.7	329
2	Green Processing of Lignocellulosic Biomass and Its Derivatives in Deep Eutectic Solvents. ChemSusChem, 2017, 10, 2696-2706.	3.6	269
3	Catalytic Advances in the Production and Application of Biomass-Derived 2,5-Dihydroxymethylfuran. ACS Catalysis, 2018, 8, 2959-2980.	5.5	210
4	Chemoselective hydrogenation of biomass derived 5-hydroxymethylfurfural to diols: Key intermediates for sustainable chemicals, materials and fuels. Renewable and Sustainable Energy Reviews, 2017, 77, 287-296.	8.2	165
5	Conversion of carbohydrates biomass into levulinate esters using heterogeneous catalysts. Applied Energy, 2011, 88, 4590-4596.	5.1	162
6	Conversion of biomass-derived ethyl levulinate into γ -valerolactone via hydrogen transfer from supercritical ethanol over a ZrO ₂ catalyst. RSC Advances, 2013, 3, 10277.	1.7	137
7	Catalytic transfer hydrogenation of biomass-derived 5-hydroxymethyl furfural to the building block 2,5-bis(hydroxymethyl) furan. Green Chemistry, 2016, 18, 1080-1088.	4.6	136
8	Chemoselective Hydrogenation of Biomass-Derived 5-Hydroxymethylfurfural into the Liquid Biofuel 2,5-Dimethylfuran. Industrial & Engineering Chemistry Research, 2014, 53, 9969-9978.	1.8	128
9	Advances in catalytic production of bio-based polyester monomer 2,5-furandicarboxylic acid derived from lignocellulosic biomass. Carbohydrate Polymers, 2015, 130, 420-428.	5.1	118
10	Earth-abundant 3d-transition-metal catalysts for lignocellulosic biomass conversion. Chemical Society Reviews, 2021, 50, 6042-6093.	18.7	104
11	Vitamin C-Assisted Synthesized Mn-Co Oxides with Improved Oxygen Vacancy Concentration: Boosting Lattice Oxygen Activity for the Air-Oxidation of 5-(Hydroxymethyl)furfural. ACS Catalysis, 2021, 11, 7828-7844.	5.5	103
12	Efficient Conversion of Glucose into 5-Hydroxymethylfurfural by Chromium(III) Chloride in Inexpensive Ionic Liquid. Industrial & Engineering Chemistry Research, 2012, 51, 1099-1104.	1.8	101
13	Efficient Production of Furan Derivatives from a Sugar Mixture by Catalytic Process. Energy & Fuels, 2012, 26, 4560-4567.	2.5	99
14	Extraction of cellulose nanocrystals using a recyclable deep eutectic solvent. Cellulose, 2020, 27, 1301-1314.	2.4	84
15	Efficient Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Diformylfuran over Fe ₂ O ₃ -Promoted MnO ₂ Catalyst. ACS Sustainable Chemistry and Engineering, 2019, 7, 7812-7822.	3.2	71
16	An effective pathway for converting carbohydrates to biofuel 5-ethoxymethylfurfural via 5-hydroxymethylfurfural with deep eutectic solvents (DEEs). Industrial Crops and Products, 2018, 112, 18-23.	2.5	69
17	In-Situ Generated Catalyst System to Convert Biomass-Derived Levulinic Acid to γ -Valerolactone. ChemCatChem, 2015, 7, 1372-1379.	1.8	62
18	Maltodextrin: A consummate carrier for spray-drying of xylooligosaccharides. Food Research International, 2018, 106, 383-393.	2.9	59

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19	Catalytic transfer hydrogenation of biomass-derived 5-hydroxymethylfurfural into 2,5-bis(hydroxymethyl)furan over tunable Zr-based bimetallic catalysts. <i>Catalysis Science and Technology</i> , 2018, 8, 4474-4484.	2.1	58
20	Eco-friendly polymer nanocomposite hydrogel enhanced by cellulose nanocrystal and graphitic-like carbon nitride nanosheet. <i>Chemical Engineering Journal</i> , 2020, 386, 124021.	6.6	58
21	In-situ Catalytic Hydrogenation of Biomass-Derived Methyl Levulinate to Valerolactone in Methanol. <i>ChemSusChem</i> , 2015, 8, 1601-1607.	3.6	56
22	Insights into the active sites and catalytic mechanism of oxidative esterification of 5-hydroxymethylfurfural by metal-organic frameworks-derived N-doped carbon. <i>Journal of Catalysis</i> , 2020, 381, 570-578.	3.1	56
23	Cascade conversion of furfural to fuel bioadditive ethyl levulinate over bifunctional zirconium-based catalysts. <i>Renewable Energy</i> , 2020, 147, 916-923.	4.3	54
24	Highly Selective Conversion of Furfural to Furfural Alcohol or Levulinate Ester in One Pot over ZrO ₂ @SBA-15 and Its Kinetic Behavior. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5584-5594.	3.2	53
25	Cu ¹ -Cu ⁰ bicomponent CuNPs@ZIF-8 for highly selective hydrogenation of biomass derived 5-hydroxymethylfurfural. <i>Green Chemistry</i> , 2019, 21, 4319-4323.	4.6	52
26	Cellulose nanocrystalline hydrogel based on a choline chloride deep eutectic solvent as wearable strain sensor for human motion. <i>Carbohydrate Polymers</i> , 2021, 255, 117443.	5.1	52
27	Development of a Two-Stage Microalgae Dewatering Process – A Life Cycle Assessment Approach. <i>Frontiers in Plant Science</i> , 2016, 7, 113.	1.7	50
28	Performance and emission characteristics of a diesel engine running on optimized ethyl levulinate-biodiesel-diesel blends. <i>Energy</i> , 2016, 95, 29-40.	4.5	48
29	Catalytic Transfer Hydrogenolysis/Hydrogenation of Biomass-Derived 5-Formyloxymethylfurfural to 2, 5-Dimethylfuran Over Ni-Cu Bimetallic Catalyst with Formic Acid As a Hydrogen Donor. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 5414-5422.	1.8	47
30	Stretchable, freezing-tolerant conductive hydrogel for wearable electronics reinforced by cellulose nanocrystals toward multiple hydrogen bonding. <i>Carbohydrate Polymers</i> , 2022, 280, 119018.	5.1	47
31	Green catalytic conversion of bio-based sugars to 5-chloromethyl furfural in deep eutectic solvent, catalyzed by metal chlorides. <i>RSC Advances</i> , 2016, 6, 27004-27007.	1.7	42
32	Synthesis of MCM-41-Supported Metal Catalysts in Deep Eutectic Solvent for the Conversion of Carbohydrates into 5-Hydroxymethylfurfural. <i>ChemSusChem</i> , 2019, 12, 978-982.	3.6	42
33	Development of Betaine-Based Sustainable Catalysts for Green Conversion of Carbohydrates and Biomass into 5-Hydroxymethylfurfural. <i>ChemSusChem</i> , 2019, 12, 495-502.	3.6	42
34	Catalytic Conversion of Biomass to Furanic Derivatives with Deep Eutectic Solvents. <i>ChemSusChem</i> , 2021, 14, 1496-1506.	3.6	42
35	A flexible Cu-based catalyst system for the transformation of fructose to furanyl ethers as potential bio-fuels. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117793.	10.8	41
36	Recent advances on sustainable cellulosic materials for pharmaceutical carrier applications. <i>Carbohydrate Polymers</i> , 2020, 244, 116492.	5.1	40

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37	Catalyst design strategy toward the efficient heterogeneously-catalyzed selective oxidation of 5-hydroxymethylfurfural. <i>Green Energy and Environment</i> , 2022, 7, 900-932.	4.7	38
38	Stability of Soluble Dialdehyde Cellulose and the Formation of Hollow Microspheres: Optimization and Characterization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2151-2159.	3.2	37
39	Phosphate limitation promotes unsaturated fatty acids and arachidonic acid biosynthesis by microalgae <i>Porphyridium purpureum</i> . <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 1129-1136.	1.7	36
40	Cooking with Active Oxygen and Solid Alkali: A Promising Alternative Approach for Lignocellulosic Biorefineries. <i>ChemSusChem</i> , 2017, 10, 3982-3993.	3.6	36
41	Highly selective hydrogenation of biomass-derived 5-hydroxymethylfurfural into 2,5-bis(hydroxymethyl)furan over an acid-base bifunctional hafnium-based coordination polymer catalyst. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1033-1041.	2.5	35
42	Stable and efficient CuCr catalyst for the solvent-free hydrogenation of biomass derived ethyl levulinate to γ -valerolactone as potential biofuel candidate. <i>Fuel</i> , 2016, 175, 232-239.	3.4	33
43	Oxidative Esterification of 5-Hydroxymethylfurfural with an N-doped Carbon-supported CoCu Bimetallic Catalyst. <i>ChemSusChem</i> , 2020, 13, 4151-4158.	3.6	33
44	Preparation of 5-(Aminomethyl)-2-furanmethanol by direct reductive amination of 5-Hydroxymethylfurfural with aqueous ammonia over the Ni/SBA-15 catalyst. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 3028-3034.	1.6	32
45	Highly Flexible and Broad-Range Mechanically Tunable All-Wood Hydrogels with Nanoscale Channels via the Hofmeister Effect for Human Motion Monitoring. <i>Nano-Micro Letters</i> , 2022, 14, 84.	14.4	31
46	Aqueous-Natural Deep Eutectic Solvent-Enhanced 5-Hydroxymethylfurfural Production from Glucose, Starch, and Food Wastes. <i>ChemSusChem</i> , 2022, 15, .	3.6	30
47	Oxidation of 5-[(Formyloxy)methyl]furfural to Maleic Anhydride with Atmospheric Oxygen Using γ -MnO ₂ /Cu(NO ₃) ₂ as Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7901-7908.	3.2	28
48	Manganese catalyzed transfer hydrogenation of biomass-derived aldehydes: Insights to the catalytic performance and mechanism. <i>Journal of Catalysis</i> , 2020, 389, 157-165.	3.1	28
49	Highly dispersed Co/N-rich carbon nanosheets for the oxidative esterification of biomass-derived alcohols: Insights into the catalytic performance and mechanism. <i>Journal of Catalysis</i> , 2021, 397, 148-155.	3.1	28
50	Cooking with active oxygen and solid alkali facilitates lignin degradation in bamboo pretreatment. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2206-2214.	2.5	26
51	Selective Hydrogenation of 5-Hydroxymethylfurfural into 2,5-Bis(hydroxymethyl)furan over a Cheap Carbon-Nanosheets-Supported Zr/Ca Bimetallic Catalyst. <i>Energy & Fuels</i> , 2020, 34, 8432-8439.	2.5	26
52	Synthesis, isolation and characterization of methyl levulinate from cellulose catalyzed by extremely low concentration acid. <i>Journal of Energy Chemistry</i> , 2013, 22, 895-901.	7.1	25
53	Stable and Biocompatible Cellulose-Based CaCO ₃ Microspheres for Tunable pH-Responsive Drug Delivery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19824-19831.	3.2	24
54	An efficient approach to produce 2,5-diformylfuran from 5-hydroxymethylfurfural using air as oxidant. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 3832-3838.	1.6	24

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55	Characterization of Structural Changes of Lignin in the Process of Cooking of Bagasse with Solid Alkali and Active Oxygen as a Pretreatment for Lignin Conversion. <i>Energy & Fuels</i> , 2012, 26, 6999-7004.	2.5	23
56	Facile and Efficient Two-Step Formation of a Renewable Monomer 2,5-Furandicarboxylic Acid from Carbohydrates over the NiO Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 4895-4904.	1.8	23
57	Spray-dried xylooligosaccharides carried by gum Arabic. <i>Industrial Crops and Products</i> , 2019, 135, 330-343.	2.5	22
58	Highly Efficient Reductive Etherification of 5-Hydroxymethylfurfural to 2,5-Bis(Alkoxyethyl)Furans as Biodiesel Components over Zr-SBA Catalyst. <i>Energy Technology</i> , 2019, 7, 1801071.	1.8	22
59	Direct conversion of biomass derived D-glucose to 5-methylfurfural in water in high yield. <i>Green Chemistry</i> , 2020, 22, 5984-5988.	4.6	22
60	Light intensity and N/P nutrient affect the accumulation of lipid and unsaturated fatty acids by <i>Chlorella sp.</i> . <i>Bioresource Technology</i> , 2015, 191, 385-390.	4.8	21
61	One-Pot Synthesis of Renewable Phthalic Anhydride from 5-Hydroxymethylfurfural by using MoO ₃ /Cu(NO ₃) ₂ as Catalyst. <i>ChemSusChem</i> , 2020, 13, 640-646.	3.6	21
62	5-Aminolevulinic acid promotes arachidonic acid biosynthesis in the red microalga <i>Porphyridium purpureum</i> . <i>Biotechnology for Biofuels</i> , 2017, 10, 168.	6.2	20
63	Synthesis of renewable monomer 2, 5-bis-hydroxymethylfuran from highly concentrated 5-hydroxymethylfurfural in deep eutectic solvents. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 93-98.	2.9	20
64	Domino transformation of furfural to γ -valerolactone over SAPO-34 zeolite supported zirconium phosphate catalysts with tunable Lewis and Brønsted acid sites. <i>Molecular Catalysis</i> , 2021, 506, 111538.	1.0	19
65	Anisotropic, strong, self-adhesive and strain-sensitive hydrogels enabled by magnetically-oriented cellulose/polydopamine nanocomposites. <i>Carbohydrate Polymers</i> , 2022, 276, 118783.	5.1	19
66	Using a trait-based approach to optimize mixotrophic growth of the red microalga <i>Porphyridium purpureum</i> towards fatty acid production. <i>Biotechnology for Biofuels</i> , 2018, 11, 273.	6.2	18
67	Production of levulinic acid and ethyl levulinate from cellulosic pulp derived from the cooking of lignocellulosic biomass with active oxygen and solid alkali. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 740-752.	1.2	18
68	Choline chloride-promoted efficient solvent-free hydrogenation of biomass-derived levulinic acid to γ -valerolactone over Ru/C. <i>Green Chemistry</i> , 2021, 23, 1983-1988.	4.6	18
69	The Cross-Linking Mechanism and Applications of Catechol-Metal Polymer Materials. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100239.	1.9	18
70	A self-healing water-dissolvable and stretchable cellulose-hydrogel for strain sensor. <i>Cellulose</i> , 2022, 29, 341-354.	2.4	18
71	Effective production of γ -valerolactone from biomass-derived methyl levulinate over CuO -CaCO ₃ catalyst. <i>Chinese Journal of Catalysis</i> , 2019, 40, 192-203.	6.9	17
72	Chemical Structure Change of Magnesium Oxide in the Wet Oxidation Delignification Process of Biomass with Solid Alkali. <i>ChemCatChem</i> , 2017, 9, 2544-2549.	1.8	16

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73	Comparison of the Physical and Chemical Properties, Performance, and Emissions of Ethyl Levulinateâ€“Biodieselâ€“Diesel and <i>n</i> -Butanolâ€“Biodieselâ€“Diesel Blends. <i>Energy & Fuels</i> , 2017, 31, 2.5 5055-5062.		16
74	Iron-Adjustable Compressible Elastic Chitosan-Derived Carbon Aerogel with Wide-Range Linear Sensitivity and Super Sensing Performances for Wearable Piezoresistive Sensors. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 10604-10614.	3.2	16
75	An effective pathway for 5-brominemethylfurfural synthesis from biomass sugars in deep eutectic solvent. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2929-2933.	1.6	15
76	Scale-up cultivation enhanced arachidonic acid accumulation by red microalgae <i>Porphyridium purpureum</i> . <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 1763-1773.	1.7	15
77	Green Processing of Lignocellulosic Biomass and Its Derivatives in Deep Eutectic Solvents. <i>ChemSusChem</i> , 2017, 10, 2695-2695.	3.6	15
78	Boosting the Acid Sites and Lattice Oxygen Activity of the Feâ€“Cu Catalyst for One-Pot Producing 2,5-Diformylfuran from Fructose. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 421-430.	3.2	15
79	Tandem thionation of biomass derived levulinic acid with Lawesson's reagent. <i>Green Chemistry</i> , 2016, 18, 2971-2975.	4.6	14
80	Efficient conversion of fructose to 5-[(formyloxy)methyl]furfural by reactive extraction and in-situ esterification. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1312-1318.	1.2	14
81	Facile fabrication of super-hydrophilic cellulose hydrogel-coated mesh using deep eutectic solvent for efficient gravity-driven oil/water separation. <i>Cellulose</i> , 2021, 28, 949-960.	2.4	14
82	Green Process for 5-(Chloromethyl)furfural Production from Biomass in Threeâ€“Constituent Deep Eutectic Solvent. <i>ChemSusChem</i> , 2021, 14, 847-851.	3.6	14
83	Cellulase production and efficient saccharification of biomass by a new mutant <i>Trichoderma afroharzianum</i> MEA-12. <i>Biotechnology for Biofuels</i> , 2021, 14, 219.	6.2	14
84	Atom-economical synthesis of Î³-valerolactone with self-supplied hydrogen from methanol. <i>Chemical Communications</i> , 2015, 51, 16320-16323.	2.2	13
85	Sustainable microalgaeâ€“based palm oil mill effluent treatment process with simultaneous biomass production. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 1848-1854.	0.9	13
86	Efficient synthesis of 2,5-furandicarboxylic acid from biomass-derived 5-hydroxymethylfurfural in 1,4-dioxane/H ₂ O mixture. <i>Applied Catalysis A: General</i> , 2022, 630, 118463.	2.2	13
87	Induced cultivation pattern enhanced the phycoerythrin production in red alga <i>Porphyridium purpureum</i> . <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 347-355.	1.7	12
88	Catalytic Conversion of Biomassâ€“Derived 2, 5â€“Dimethylfuran into Renewable pâ€“Xylene over SAPOâ€“34 Catalyst. <i>ChemistrySelect</i> , 2020, 5, 2449-2454.	0.7	12
89	Insights into the catalytic mechanism of 5-hydroxymethylfurfural to phthalic anhydride with MoO ₃ /Cu(NO ₃) ₂ in one-pot. <i>Catalysis Science and Technology</i> , 2021, 11, 5656-5662.	2.1	12
90	Generation of Methyl Vinyl Ketone from Oxidation of Levulinic Acid Oxidized by Cupric Oxide Complex. <i>Chinese Journal of Chemistry</i> , 2012, 30, 327-332.	2.6	10

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91	Preparation of Ethyl Cellulose Composite Film with Down Conversion Luminescence Properties by Doping Perovskite Quantum Dots. <i>ChemistrySelect</i> , 2019, 4, 6516-6523.	0.7	10
92	Interfacial assembly of self-healing and mechanically stable hydrogels for degradation of organic dyes in water. <i>Communications Materials</i> , 2020, 1, .	2.9	10
93	Removal of copper ions by cellulose nanocrystal-based hydrogel and reduced adsorbents for its catalytic properties. <i>Cellulose</i> , 2022, 29, 4525-4537.	2.4	10
94	Hydrogenation of methyl levulinate to Î³-valerolactone over Cuâ€”Mg oxide using MeOH as <i>in situ</i> hydrogen source. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 167-177.	1.6	9
95	Efficient synthesis of bio-based monomer 2,5-bis(hydroxymethyl)furan by the solvent-free hydrogenation of 5-hydroxymethylfurfural-based deep eutectic mixture. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 1748-1755.	1.6	9
96	Selective oxidation of 5-formyloxymethylfurfural to 2, 5-furandicarboxylic acid with Ru/C in water solution. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 224-230.	1.2	9
97	Efficient Synthesis of Sugar Alcohols over a Synergistic and Sustainable Catalyst. <i>Chinese Journal of Chemistry</i> , 2021, 39, 2467-2476.	2.6	8
98	An efficient approach to synthesizing 2,5-bis(<i>N</i> -methyl-aminomethyl)furan from 5-hydroxymethylfurfural <i>via</i> 2,5-bis(<i>N</i> -methyl-iminomethyl)furan using a two-step reaction in one pot. <i>Green Chemistry</i> , 2021, 23, 5656-5664.	4.6	8
99	The structural features of hemicelluloses dissolved out at different cooking stages of active oxygen cooking process. <i>Carbohydrate Polymers</i> , 2014, 104, 182-190.	5.1	5
100	Methyl 4-methoxypentanoate: a novel and potential downstream chemical of biomass derived gamma-valerolactone. <i>RSC Advances</i> , 2015, 5, 8297-8300.	1.7	5
101	Facile One-Pot Synthesis of Furan Double Schiff Base from 5-Hydroxymethylfurfural via an Aminationâ€”Oxidationâ€”Amination Strategy in Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6835-6842.	3.2	5
102	Cellulose Fibrils Extracted from Bamboo Chips as a Reinforcing Material for Prolonged Drug Release. <i>ChemistrySelect</i> , 2020, 5, 9957-9965.	0.7	4
103	Integration of hemicellulose pre-extraction and solid alkali-oxygen cooking processes for lignocellulose fractionation with emphasis on xylan valorization. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 788-796.	1.2	4
104	Solvent-Free Hydrogenation of 5-Hydroxymethylfurfural and Furfural to Furanyl Alcohols and their Self-Condensation Polymers. <i>ChemSusChem</i> , 2022, , .	3.6	4
105	Construction of Synergistic Co and Cu Diatomic Sites for Enhanced Higher Alcohol Synthesis. <i>CCS Chemistry</i> , 2023, 5, 851-864.	4.6	4
106	Molecular mechanism of arachidonic acid biosynthesis in <i>Porphyridium purpureum</i> promoted by nitrogen limitation. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 1491-1499.	1.7	3
107	Green and mild production of 5-aminolevulinic acid from algal biomass. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 899-905.	1.2	3
108	Special Section for the 4th International Conference on Biorefineryâ€”Toward Bioenergy. <i>Energy & Fuels</i> , 2014, 28, 4241-4241.	2.5	2

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109	One-pot synthesis of high fructose corn syrup directly from starch with SO ₄ ²⁻ /USY solid catalyst. Korean Journal of Chemical Engineering, 2017, 34, 1924-1929.	1.2	1
110	Reinforcement Learning Based Prioritized Cross-Area Resource Management for Vehicular Cloud Networks. , 2019, , .		1