Qunhui Wang

List of Publications by Year
in descending order

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135	3,893	117453	155451
papers	citations	34 h-index	55 g-index

135	135	135	3573
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A comprehensive review on food waste anaerobic digestion: Research updates and tendencies. Bioresource Technology, 2018, 247, 1069-1076.	4.8	432
2	Recent advances to improve fermentative butanol production: Genetic engineering and fermentation technology. Journal of Bioscience and Bioengineering, 2015, 119, 1-9.	1.1	175
3	Oxidative Capacity of Nanobubbles and Its Effect on Seed Germination. ACS Sustainable Chemistry and Engineering, 2016, 4, 1347-1353.	3.2	124
4	Biodiesels from microbial oils: Opportunity and challenges. Bioresource Technology, 2018, 263, 631-641.	4.8	121
5	Microbubble enhanced ozonation process for advanced treatment of wastewater produced in acrylic fiber manufacturing industry. Journal of Hazardous Materials, 2015, 287, 412-420.	6.5	107
6	Lignocellulosic biomass for bioethanol: an overview on pretreatment, hydrolysis and fermentation processes. Reviews on Environmental Health, 2019, 34, 57-68.	1.1	102
7	Effect of crude glycerol impurities on lipid preparation by Rhodosporidium toruloides yeast 32489. Bioresource Technology, 2016, 218, 373-379.	4.8	76
8	Effects of water-washing pretreatment on bioleaching of heavy metals from municipal solid waste incinerator fly ash. Journal of Hazardous Materials, 2009, 162, 812-818.	6.5	75
9	Remediation of wastewater contaminated by antibiotics. AÂreview. Environmental Chemistry Letters, 2020, 18, 345-360.	8.3	73
10	Effect of ethanol pre-fermentation and inoculum-to-substrate ratio on methane yield from food waste and distillersâ€™ grains. Applied Energy, 2015, 155, 846-853.	5.1	69
11	Effects of digestate recirculation on a two-stage anaerobic digestion system, particularly focusing on metabolite correlation analysis. Bioresource Technology, 2018, 251, 40-48.	4.8	67
12	Volatile fatty acids production from saccharification residue from food waste ethanol fermentation: Effect of pH and microbial community. Bioresource Technology, 2019, 292, 121957.	4.8	67
13	Influence of mixing proportion on the solid-state anaerobic co-digestion of distiller's grains and food waste. Biosystems Engineering, 2012, 112, 130-137.	1.9	60
14	A bibliometric analysis of industrial wastewater research: current trends and future prospects. Scientometrics, 2015, 105, 863-882.	1.6	60
15	Production of butanol from biomass: recent advances and future prospects. Environmental Science and Pollution Research, 2019, 26, 20164-20182.	2.7	60
16	Effect of ethanol pre-fermentation on organic load rate and stability of semi-continuous anaerobic digestion of food waste. Bioresource Technology, 2020, 299, 122587.	4.8	59
17	Effects of anaerobic/aerobic incubation and storage temperature on preservation and deodorization of kitchen garbage. Bioresource Technology, 2002, 84, 213-220.	4.8	56
18	Global trends and future prospects of food waste research: a bibliometric analysis. Environmental Science and Pollution Research, 2018, 25, 24600-24610.	2.7	54

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19	A review of root exudates and rhizosphere microbiome for crop production. Environmental Science and Pollution Research, 2021, 28, 54497-54510.	2.7	52
20	Concise review on ethanol production from food waste: development and sustainability. Environmental Science and Pollution Research, 2018, 25, 28851-28863.	2.7	50
21	Comparisons of One-Step and Two-Step Bioleaching for Heavy Metals Removed from Municipal Solid Waste Incineration Fly Ash. Environmental Engineering Science, 2008, 25, 783-789.	0.8	48
22	Past, current, and future research on microalga-derived biodiesel: a critical review and bibliometric analysis. Environmental Science and Pollution Research, 2018, 25, 10596-10610.	2.7	48
23	Effect of ultrasonic pretreatment on chain elongation of saccharified residue from food waste by anaerobic fermentation. Environmental Pollution, 2021, 268, 115936.	3.7	48
24	Waste cooking oil used as carbon source for microbial lipid production: Promoter or inhibitor. Environmental Research, 2022, 203, 111881.	3.7	46
25	Ethanol prefermentation of food waste in sequencing batch methane fermentation for improved buffering capacity and microbial community analysis. Bioresource Technology, 2018, 248, 187-193.	4.8	43
26	A bibliometric analysis of micro/nano-bubble related research: current trends, present application, and future prospects. Scientometrics, 2016, 109, 53-71.	1.6	41
27	Enhancement of l -lactic acid production via synergism in open co-fermentation of Sophora flavescens residues and food waste. Bioresource Technology, 2017, 225, 159-164.	4.8	40
28	Lactic acid production from co-fermentation of food waste and spent mushroom substance with Aspergillus niger cellulase. Bioresource Technology, 2021, 337, 125365.	4.8	39
29	A bibliometric analysis of biodiesel research during 1991â€“2015. Journal of Material Cycles and Waste Management, 2018, 20, 10-18.	1.6	38
30	Recent advances in the separation and purification of lactic acid from fermentation broth. Process Biochemistry, 2021, 104, 142-151.	1.8	38
31	An innovative approach for reducing the water and alkali consumption in the lactic acid fermentation via the reuse of pretreated liquid. Bioresource Technology, 2022, 352, 127108.	4.8	38
32	Bioconversion of Kitchen Garbage to Lactic Acid by Two Wild Strains ofLactobacillusSpecies. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2005, 40, 1951-1962.	0.9	37
33	Effect of Ethanol and Lactic Acid Pre-fermentation on Putrefactive Bacteria Suppression, Hydrolysis, and Methanogenesis of Food Waste. Energy & Fuels, 2016, 30, 2982-2989.	2.5	37
34	Research trends in electrochemical technology for water and wastewater treatment. Applied Water Science, 2017, 7, 13-30.	2.8	37
35	Heavy metal leaching behaviour and long-term environmental risk assessment of cement-solidified municipal solid waste incineration fly ash in sanitary landfill. Chemosphere, 2022, 300, 134571.	4.2	37
36	The effect of different types of microâ€bubbles on the performance of the coagulation flotation process for coke wasteâ€water. Journal of Chemical Technology and Biotechnology, 2012, 87, 206-215.	1.6	36

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37	Advanced treatment of wet-spun acrylic fiber manufacturing wastewater using three-dimensional electrochemical oxidation. Journal of Environmental Sciences, 2016, 50, 21-31.	3.2	36
38	Progress in research and development of particle electrodes for three-dimensional electrochemical treatment of wastewater: a review. Environmental Science and Pollution Research, 2021, 28, 47800-47824.	2.7	36
39	Effect of co-digestion of tylosin fermentation dreg and food waste on anaerobic digestion performance. Bioresource Technology, 2021, 325, 124693.	4.8	34
40	ENHANCEMENT OF DEWATERABILITY OF THICKENED WASTE ACTIVATED SLUDGE BY FREEZING AND THAWING TREATMENT. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2001, 36, 1361-1371.	0.9	32
41	Microbial lipid production from food waste saccharified liquid and the effects of compositions. Energy Conversion and Management, 2018, 172, 306-315.	4.4	32
42	A comprehensive study on activated carbon prepared from spent shiitake substrate via pyrolysis with ZnCl2. Journal of Porous Materials, 2015, 22, 157-169.	1.3	31
43	Metabolic analysis of butanol production from acetate in Clostridium saccharoperbutylacetonicum N1-4 using¹³C tracer experiments. RSC Advances, 2015, 5, 8486-8495.	1.7	30
44	Feasibility of converting lactic acid to ethanol in food waste fermentation by immobilized lactate oxidase. Applied Energy, 2014, 129, 89-93.	5.1	28
45	Pollution characteristics of polycyclic aromatic hydrocarbons in common used mineral oils and their transformation during oil regeneration. Journal of Environmental Sciences, 2017, 56, 247-253.	3.2	28
46	Biodrying of biogas residue through a thermophilic bacterial agent inoculation: Insights into dewatering contribution and microbial mechanism. Bioresource Technology, 2022, 355, 127256.	4.8	27
47	Analysis of Research Status of CO2 Conversion Technology Based on Bibliometrics. Catalysts, 2020, 10, 370.	1.6	26
48	A bibliometric analysis of anaerobic digestion for methane research during the period 1994â€“2011. Journal of Material Cycles and Waste Management, 2013, 15, 1-8.	1.6	25
49	Chloride Diffusion and Wicking in Concrete Exposed to NaCl and MgCl2 Solutions. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	25
50	Synergistic effect from anaerobic co-digestion of food waste and Sophora flavescens residues at different co-substrate ratios. Environmental Science and Pollution Research, 2019, 26, 37114-37124.	2.7	25
51	Semi-solid state fermentation of food waste for production of Bacillus thuringiensis biopesticide. Biotechnology and Bioprocess Engineering, 2015, 20, 1123-1132.	1.4	23
52	High acetoneâ€“butanolâ€“ethanol production in pH-stat co-feeding of acetate and glucose. Journal of Bioscience and Bioengineering, 2016, 122, 176-182.	1.1	23
53	Stillage reflux in food waste ethanol fermentation and its by-product accumulation. Bioresource Technology, 2016, 209, 254-258.	4.8	23
54	An excellent alternative composite modifier for cathode catalysts prepared from bacterial cellulose doped with Cu and P and its utilization in microbial fuel cell. Bioresource Technology, 2019, 289, 121661.	4.8	23

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55	Chloride removal from municipal solid waste incineration fly ash using lactic acid fermentation broth. Waste Management, 2021, 130, 23-29.	3.7	23
56	Effect of pH Adjustment on Preservation of Kitchen Waste Used for Producing Lactic Acid. Water, Air, and Soil Pollution, 2003, 144, 405-418.	1.1	22
57	Removal of heavy metals from municipal solid waste incineration (MSWI) fly ash by traditional and microwave acid extraction. Journal of Chemical Technology and Biotechnology, 2010, 85, 1268-1277.	1.6	22
58	Enhanced Productions and Recoveries of Ethanol and Methane from Food Waste by a Three-Stage Process. Energy & Fuels, 2015, 29, 6494-6500.	2.5	22
59	A novel variable pH control strategy for enhancing lipid production from food waste: Biodiesel versus docosahexaenoic acid. Energy Conversion and Management, 2019, 189, 60-66.	4.4	22
60	Advanced treatment of acrylic fiber manufacturing wastewater with a combined microbubble-ozonation/ultraviolet irradiation process. RSC Advances, 2015, 5, 77601-77609.	1.7	21
61	High efficiency three-dimensional electrochemical treatment of amoxicillin wastewater using Mnâ€“Co/GAC particle electrodes and optimization of operating condition. Environmental Research, 2022, 209, 112728.	3.7	21
62	Comparative study on inorganic Cl removal of municipal solid waste fly ash using different types and concentrations of organic acids. Chemosphere, 2020, 261, 127754.	4.2	20
63	Adding activated carbon to the system with added zero-valent iron further improves anaerobic digestion performance by alleviating ammonia inhibition and promoting DIET. Journal of Environmental Chemical Engineering, 2021, 9, 106616.	3.3	20
64	Biodiesel production using unrefined methanol as transesterification agent and the research of individual effect of impurities. Energy, 2015, 82, 361-369.	4.5	19
65	Comparison of denitrification performances using PLA/starch with different mass ratios as carbon source. Water Science and Technology, 2015, 71, 1019-1025.	1.2	19
66	Kinetic modelling and synergistic impact evaluation for the anaerobic co-digestion of distillersâ€™ grains and food waste by ethanol pre-fermentation. Environmental Science and Pollution Research, 2018, 25, 30281-30291.	2.7	19
67	Methane production from food waste via mesophilic anaerobic digestion with ethanol pre-fermentation: Methanogenic pathway and microbial community analyses. Bioresource Technology, 2020, 297, 122450.	4.8	18
68	Effect of yeast addition on the biogas production performance of a food waste anaerobic digestion system. Royal Society Open Science, 2020, 7, 200443.	1.1	18
69	Effect of zero-valent iron addition on the biogas fermentation of food waste after anaerobic preservation. Journal of Environmental Chemical Engineering, 2021, 9, 106013.	3.3	18
70	Semi-continuous mesophilic-thermophilic two-phase anaerobic co-digestion of food waste and spent mushroom substance: Methanogenic performance, microbial, and metagenomic analysis. Bioresource Technology, 2022, 360, 127518.	4.8	18
71	Lactic acid production from Sophora flavescens residues pretreated with sodium hydroxide: Reutilization of the pretreated liquor during fermentation. Bioresource Technology, 2017, 241, 915-921.	4.8	17
72	Study on Influence Factors in Bacillus Thuringiensis Production by Semi-solid State Fermentation Using Food Waste. Procedia Environmental Sciences, 2016, 31, 127-135.	1.3	16

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73	Effect of liquid digestate recirculation on the ethanol-type two-phase semi-continuous anaerobic digestion system of food waste. Bioresource Technology, 2020, 313, 123534.	4.8	16
74	Effect of fermentation stillage of food waste on bioelectricity production and microbial community structure in microbial fuel cells. Royal Society Open Science, 2018, 5, 180457.	1.1	15
75	Pilot-scale open fermentation of food waste to produce lactic acid without inoculum addition. RSC Advances, 2016, 6, 104354-104358.	1.7	14
76	Pilot-scale experiments on multilevel contact oxidation treatment of poultry farm wastewater using saran lock carriers under different operation model. Journal of Environmental Sciences, 2019, 77, 336-345.	3.2	14
77	Phenol removal via activated carbon from co-pyrolysis of waste coal tar pitch and vinasse. Korean Journal of Chemical Engineering, 2021, 38, 64-71.	1.2	14
78	Release of Heavy Metals from Concrete Made with Cement from Cement Kiln Co-Processing of Hazardous Wastes in Pavement Scenarios. Environmental Engineering Science, 2011, 28, 35-42.	0.8	13
79	Responses of ammonia-oxidizing bacteria community composition to temporal changes in physicochemical parameters during food waste composting. RSC Advances, 2016, 6, 9541-9548.	1.7	13
80	Impact of nanoscale zerovalent iron on volatile fatty acid production from food waste: key enzymes and microbial community. Journal of Chemical Technology and Biotechnology, 2019, 94, 3201-3207.	1.6	13
81	Re-using ammonium-rich wastewater as a moisture conditioning agent during composting thermophilic period improves composting performance. Bioresource Technology, 2021, 332, 125084.	4.8	13
82	Synergistic effect of mixed methanol/ethanol on transesterification of waste food oil using pâ€toluenesulfonic acid as catalyst. Environmental Progress and Sustainable Energy, 2015, 34, 1547-1553.	1.3	12
83	Microbial lipid production from food waste saccharified liquid under two-stage process. Bioresource Technology, 2019, 289, 121626.	4.8	12
84	The bibliometric analysis and review of dioxin in waste incineration and steel sintering. Environmental Science and Pollution Research, 2019, 26, 35687-35703.	2.7	11
85	Carbon release behaviour of polylactic acid/starch-based solid carbon and its influence on biodenitrification. Biochemical Engineering Journal, 2020, 155, 107468.	1.8	11
86	Microwave regeneration of spent activated carbon for the treatment of ester-containing wastewater. RSC Advances, 2016, 6, 60815-60825.	1.7	10
87	Scenarios simulation on municipal plastic waste generation of different functional areas of Beijing. Journal of Material Cycles and Waste Management, 2012, 14, 250-258.	1.6	9
88	Treatment of real high-concentration dyeing wastewater using a coagulation-hydrolysis acidification-multilevel contact oxidation system. Environmental Progress and Sustainable Energy, 2015, 34, 339-345.	1.3	9
89	A novel magnetic biochar from spent shiitake substrate: characterization and analysis of pyrolysis process. Biomass Conversion and Biorefinery, 2015, 5, 339-346.	2.9	9
90	Wastewater-nitrogen removal using polylactic acid/starch as carbon source: Optimization of operating parameters using response surface methodology. Frontiers of Environmental Science and Engineering, 2016, 10, 1.	3.3	9

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91	Stimulation of methane yield rate from food waste by aerobic pre-treatment. Bioresource Technology, 2018, 261, 279-287.	4.8	9
92	A newly isolated strain, Lactobacillus paracasei subsp. paracasei 2, produces <scp>l</scp>â€lactic acid from pilotâ€scale fermentation of food waste under sterile and nonsterile conditions. Journal of Chemical Technology and Biotechnology, 2020, 95, 3193-3201.	1.6	9
93	Effect of pH regulation mode on byproduct ethanol generated from the lactic acid fermentation of Sophora flavescens residues. Journal of Cleaner Production, 2021, 279, 123536.	4.6	9
94	Microbial lipid production from banana straw hydrolysate and ethanol stillage. Environmental Science and Pollution Research, 2021, 28, 29357-29368.	2.7	9
95	Effects of different lignocellulosic wastes on alleviating acidification of L-lactic acid production from food waste fermentation. Bioresource Technology, 2021, 342, 126043.	4.8	9
96	Co-pyrolysis behaviour and kinetic of two typical solid wastes in China and characterisation of activated carbon prepared from pyrolytic char. Waste Management and Research, 2014, 32, 1123-1133.	2.2	8
97	Research trend analysis of composting based on Web of Science database. Environmental Science and Pollution Research, 2021, 28, 59528-59541.	2.7	8
98	Pilot-Scale Study of Biomass Reduction in Wastewater Treatment. Water Environment Research, 2007, 79, 521-527.	1.3	7
99	Research on the Adoption of Lactic Acid Bacteria in Food Waste Storage and Ethanol Production. International Journal of Green Energy, 2012, 9, 456-466.	2.1	7
100	Energy and Environment: Challenges and Achievements in Rapid Urbanization. Scientific World Journal, The, 2013, 2013, 1-2.	0.8	7
101	Separation of Pollutants from Oil-Containing Restaurant Wastewater by Novel Microbubble Air Flotation and Traditional Dissolved Air Flotation. Separation Science and Technology, 0, , 150707113117003.	1.3	7
102	Ceramsite production from sediment in Beian River: characterization and parameter optimization. Royal Society Open Science, 2019, 6, 190197.	1.1	7
103	Dechlorination of Municipal Solid Waste Incineration Fly Ash by Leaching with Fermentation Liquid of Food Waste. Sustainability, 2020, 12, 4389.	1.6	7
104	Metabolic analysis of efficient methane production from food waste with ethanol pre-fermentation using carbon isotope labeling. Bioresource Technology, 2019, 291, 121849.	4.8	6
105	A Comparison of the Mechanism of TOC and COD Degradation in Rhodamine B Wastewater by a Recycling-Flow Two- and Three-dimensional Electro-Reactor System. Water (Switzerland), 2020, 12, 1853.	1.2	6
106	Dechlorination of fly ash by hydrolysate of municipal solid waste leachate. RSC Advances, 2020, 10, 26397-26406.	1.7	6
107	Preliminary determination of antibacterial substances during anaerobic preservation of food waste and their effects on methanogenesis. Environmental Technology and Innovation, 2021, 24, 101813.	3.0	6
108	Mesophilic condition is more conducive to methane production yield and tylosin removal on tylosin fermentation dreg anaerobic digestion. Bioresource Technology, 2021, 341, 125806.	4.8	6

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109	Research on Biodiesel and Ethanol Production from Food Waste. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	5
110	Temporal Changes in Microbial Metabolic Characteristics in Field-Scale Biopiles Composed of Aged Oil Sludge. Environmental Engineering Science, 2014, 31, 507-513.	0.8	5
111	Adsorption performance of heavy metal ions between EAF steel slag and common mineral adsorbents. Desalination and Water Treatment, 2014, 52, 7125-7132.	1.0	5
112	Research on the Recycling of Distillation Waste in Ethanol Fermentation from Food Waste and Its Influence. International Journal of Green Energy, 2015, 12, 737-742.	2.1	5
113	Alleviation of harmful effect in stillage reflux in food waste ethanol fermentation based on metabolic and side-product accumulation regulation. Bioresource Technology, 2016, 218, 463-468.	4.8	5
114	Estimation and prediction of the generation of waste organic solvents in China. Journal of Material Cycles and Waste Management, 2020, 22, 1094-1102.	1.6	5
115	Characterization and Hydration Mechanism of Ammonia Soda Residue and Portland Cement Composite Cementitious Material. Materials, 2021, 14, 4794.	1.3	5
116	Compostingâ€“a solution of eliminating a nitrite-rich wastewater by reusing it as a moisture conditioning agent. Chemosphere, 2021, 284, 131365.	4.2	5
117	Study on Advanced Treatment of Secondary Effluent Using Fixed-Bed Filled with Bone Char. Water, Air, and Soil Pollution, 2004, 159, 313-324.	1.1	4
118	Biological Nitrogen Removal Using the Supernatant of Ozonized Sludge as Extra Carbon Source. Ozone: Science and Engineering, 2011, 33, 410-416.	1.4	4
119	Pilot-scale experiments on brewery wastewater treatment and sludge reduction based on food chain predation. Desalination and Water Treatment, 0, , 1-10.	1.0	4
120	Pyrolysis Behaviour and Kinetic of Coal Tar Pitch Modified with Paraformaldehyde. Waste and Biomass Valorization, 2017, 8, 209-216.	1.8	4
121	Research on stillage storage time for MFC performance and control methods. Bioresource Technology Reports, 2018, 3, 162-168.	1.5	4
122	Nitrogen and Phosphorus Doped Activated Carbon Catalyst Prepared from Shrimp Shell and its Application in MFC Air Cathode. ChemistrySelect, 2020, 5, 2690-2695.	0.7	4
123	Investigation and Optimization of Chitosan Performance in Flocculating Kaolin Suspensions Using a Real-Time Suspending Solid Concentration Measuring Method. Water (Switzerland), 2021, 13, 513.	1.2	4
124	Novel study on microbial fuel cells via a comprehensive bibliometric and dynamic approach. Reviews on Environmental Health, 2021, .	1.1	4
125	Cathode catalyst prepared from bacterial cellulose for ethanol fermentation stillage treatment in microbial fuel cell. Chinese Journal of Chemical Engineering, 2021, 40, 256-261.	1.7	4
126	Sludge reduction during brewery wastewater treatment by hydrolyzation-food chain reactor system. Frontiers of Environmental Science and Engineering in China, 2008, 2, 32-35.	0.8	3

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127	Simultaneous Domestic Wastewater Treatment and Electricity Generation in Microbial Fuel Cell with Mn(IV) Oxide Addition. ChemistrySelect, 2021, 6, 369-375.	0.7	3
128	Enhancement of Food Waste Thermophilic Anaerobic Digestion with Supplementing Spent Mushroom Substrate: Synergistic Effect and Stability. Waste and Biomass Valorization, 2022, 13, 2881-2888.	1.8	3
129	Removal of heavy metals in municipal solid waste incineration fly ash using lactic acid fermentation broth. Environmental Science and Pollution Research, 2021, 28, 62716-62725.	2.7	2
130	Nitrate-rich wastewater discharged from a bio-trickling filter can be reused as a moisture conditioning agent for organic waste composting. Environmental Technology and Innovation, 2021, 24, 101932.	3.0	2
131	Electricity Enhancement by MFCs from Food Waste Ethanol Fermentation Recycle Stillage Effect of Dilution Ratio and Addition of Tween 80. ChemistrySelect, 2020, 5, 5701-5705.	0.7	2
132	Determination of Pb in the Leaves by Graphite Atomic Absorption Spectrophotometry. , 2009, , .		0
133	Effects of pile-turning frequency on compost quality and changes of chemical and physical properties during plant-scale composting. , 2010, , .		0
134	Pre-Treatment of Sanitary Landfill Leachate with a Novel Coagulant. , 2010, , .		0
135	Effect of a New Kind of Liquid Fertilizer on Yield, Quality and Safety of Greenhouse Chinese Cabbage. Agricultural Research, 2015, 4, 57-62.	0.9	0