Lujia Han

List of Publications by Year
in descending order

199 papers	6,891 citations	53751 45 h-index	95218 68 g-index
202 all docs	202 docs citations	202 times ranked	6088 citing authors

#	Article	IF	Citations
1	Characteristics of tetracycline adsorption by cow manure biochar prepared at different pyrolysis temperatures. Bioresource Technology, 2019, 285, 121348.	4.8	275
2	Microwave-assisted extraction of flavonoids from Radix Astragali. Separation and Purification Technology, 2008, 62, 614-618.	3.9	232
3	Effect of pyrolysis temperature and correlation analysis on the yield and physicochemical properties of crop residue biochar. Bioresource Technology, 2020, 296, 122318.	4.8	197
4	Role and multi-scale characterization of bamboo biochar during poultry manure aerobic composting. Bioresource Technology, 2017, 241, 190-199.	4.8	193
5	Carbonization and ball milling on the enhancement of Pb(II) adsorption by wheat straw: Competitive effects of ion exchange and precipitation. Bioresource Technology, 2019, 273, 70-76.	4.8	161
6	Bacterial community succession during pig manure and wheat straw aerobic composting covered with a semi-permeable membrane under slight positive pressure. Bioresource Technology, 2018, 259, 221-227.	4.8	154
7	Effects of amoxicillin on nitrogen transformation and bacterial community succession during aerobic composting. Journal of Hazardous Materials, 2019, 362, 258-265.	6.5	131
8	Solvent-free synthesis of magnetic biochar and activated carbon through ball-mill extrusion with Fe3O4 nanoparticles for enhancing adsorption of methylene blue. Science of the Total Environment, 2020, 722, 137972.	3.9	131
9	Effects of biochar size and type on gaseous emissions during pig manure/wheat straw aerobic composting: Insights into multivariate-microscale characterization and microbial mechanism. Bioresource Technology, 2019, 271, 375-382.	4.8	116
10	Influence of pyrolysis temperature on chemical speciation, leaching ability, and environmental risk of heavy metals in biochar derived from cow manure. Bioresource Technology, 2020, 302, 122850.	4.8	110
11	An evaluation of mathematical models for predicting skin permeability. Journal of Pharmaceutical Sciences, 2008, 97, 584-598.	1.6	98
12	Compositional characteristics and energy potential of Chinese animal manure by type and as a whole. Applied Energy, 2015, 160, 108-119.	5.1	98
13	An insight to pretreatment, enzyme adsorption and enzymatic hydrolysis of lignocellulosic biomass: Experimental and modeling studies. Renewable and Sustainable Energy Reviews, 2021, 140, 110758.	8.2	92
14	Ball Milling for Biomass Fractionation and Pretreatment with Aqueous Hydroxide Solutions. ACS Sustainable Chemistry and Engineering, 2017, 5, 7733-7742.	3.2	91
15	Mechanical fragmentation of corncob at different plant scales: Impact and mechanism on microstructure features and enzymatic hydrolysis. Bioresource Technology, 2016, 205, 159-165.	4.8	88
16	Ultimate analysis and heating value prediction of straw by near infrared spectroscopy. Waste Management, 2009, 29, 1793-1797.	3.7	83
17	Characteristics, adsorption behaviors, Cu(II) adsorption mechanisms by cow manure biochar derived at various pyrolysis temperatures. Bioresource Technology, 2021, 331, 125013.	4.8	76
18	A novel homodimeric lectin from Astragalus mongholicus with antifungal activity. Archives of Biochemistry and Biophysics, 2005, 442, 72-81.	1.4	74

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19	Effects of intermittent aeration on greenhouse gas emissions and bacterial community succession during large-scale membrane-covered aerobic composting. Journal of Cleaner Production, 2020, 266, 121551.	4.6	74
20	Characterization of lignocellulosic compositions' degradation during chicken manure composting with added biochar by phospholipid fatty acid (PLFA) and correlation analysis. Science of the Total Environment, 2017, 586, 1003-1011.	3.9	66
21	The influence of manure feedstock, slow pyrolysis, and hydrothermal temperature on manure thermochemical and combustion properties. Waste Management, 2019, 88, 85-95.	3.7	66
22	Recent advances in predicting skin permeability of hydrophilic solutes. Advanced Drug Delivery Reviews, 2013, 65, 295-305.	6.6	65
23	Comparative study of conventional and microwave-assisted liquefaction of corn stover in ethylene glycol. Industrial Crops and Products, 2011, 34, 1602-1606.	2.5	64
24	Mechanochemical deconstruction of lignocellulosic cell wall polymers with ball-milling. Bioresource Technology, 2019, 286, 121364.	4.8	64
25	Regularity and mechanism of wheat straw properties change in ball milling process at cellular scale. Bioresource Technology, 2017, 241, 214-219.	4.8	63
26	Insights into the improvement of alkaline hydrogen peroxide (AHP) pretreatment on the enzymatic hydrolysis of corn stover: Chemical and microstructural analyses. Bioresource Technology, 2018, 265, 1-7.	4.8	63
27	An aggregated understanding of cellulase adsorption and hydrolysis for ball-milled cellulose. Bioresource Technology, 2019, 273, 1-7.	4.8	62
28	A method for producing superfine black tea powder with enhanced infusion and dispersion property. Food Chemistry, 2017, 214, 242-247.	4.2	60
29	Nitrogen transformation and dynamic changes in related functional genes during functional-membrane covered aerobic composting. Bioresource Technology, 2021, 332, 125087.	4.8	60
30	Effect of different particle-size biochar on methane emissions during pig manure/wheat straw aerobic composting: Insights into pore characterization and microbial mechanisms. Bioresource Technology, 2018, 268, 633-637.	4.8	59
31	Optimization of a â€œcoal-likeâ€•pelletization technique based on the sustainable biomass fuel of hydrothermal carbonization of wheat straw. Journal of Cleaner Production, 2020, 242, 118426.	4.6	59
32	Evaluation of different water-washing treatments effects on wheat straw combustion properties. Bioresource Technology, 2017, 245, 1075-1083.	4.8	57
33	Characterization of the Dynamic Thickness of the Aerobic Layer during Pig Manure Aerobic Composting by Fourier Transform Infrared Microspectroscopy. Environmental Science & Technology, 2014, 48, 5043-5050.	4.6	55
34	Integrated chemical and multi-scale structural analyses for the processes of acid pretreatment and enzymatic hydrolysis of corn stover. Carbohydrate Polymers, 2016, 141, 1-9.	5.1	55
35	Mechanical deconstruction of corn stover as an entry process to facilitate the microwave-assisted production of ethyl levulinate. Fuel Processing Technology, 2018, 174, 53-60.	3.7	55
36	Effect of aeration interval on oxygen consumption and GHG emission during pig manure composting. Bioresource Technology, 2018, 250, 214-220.	4.8	55

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37	Qualitative and quantitative correlation of physicochemical characteristics and lead sorption behaviors of crop residue-derived chars. Bioresource Technology, 2018, 270, 545-553.	4.8	55
38	Characterization of mechanical pulverization/phosphoric acid pretreatment of corn stover for enzymatic hydrolysis. Bioresource Technology, 2019, 282, 69-74.	4.8	55
39	Modeling of oxygen uptake rate evolution in pig manure–wheat straw aerobic composting process. Chemical Engineering Journal, 2015, 276, 29-36.	6.6	53
40	Key factors in FTIR spectroscopic analysis of DNA: the sampling technique, pretreatment temperature and sample concentration. Analytical Methods, 2018, 10, 2436-2443.	1.3	53
41	The composition characteristics of different crop straw types and their multivariate analysis and comparison. Waste Management, 2020, 110, 87-97.	3.7	53
42	Understanding the synergistic effect and the main factors influencing the enzymatic hydrolyzability of corn stover at low enzyme loading by hydrothermal and/or ultrafine grinding pretreatment. Bioresource Technology, 2018, 264, 327-334.	4.8	51
43	Twenty-two compositional characterizations and theoretical energy potentials of extensively diversified China's crop residues. Energy, 2016, 100, 238-250.	4.5	50
44	Exploring the mechanisms of decreased methane during pig manure and wheat straw aerobic composting covered with a semi-permeable membrane. Waste Management, 2018, 78, 393-400.	3.7	48
45	Multivariate and Multiscale Approaches for Interpreting the Mechanisms of Nitrous Oxide Emission during Pig Manure–Wheat Straw Aerobic Composting. Environmental Science & Technology, 2018, 52, 8408-8418.	4.6	48
46	Optimization of Microwave‐Assisted Extraction of Flavonoid from <i>Radix Astragali</i> using Response Surface Methodology. Separation Science and Technology, 2008, 43, 671-681.	1.3	47
47	Evaluation of biochar powder on oxygen supply efficiency and global warming potential during mainstream large-scale aerobic composting. Bioresource Technology, 2017, 245, 309-317.	4.8	47
48	Impacts of carbonization temperature on the Pb(II) adsorption by wheat straw-derived biochar and related mechanism. Science of the Total Environment, 2019, 692, 479-489.	3.9	47
49	Changes to the physicochemical characteristics of wheat straw by mechanical ultrafine grinding. Cellulose, 2014, 21, 3257-3268.	2.4	46
50	Evaluation of the nutrient metal content in Chinese animal manure compost using near infrared spectroscopy (NIRS). Bioresource Technology, 2008, 99, 8164-8169.	4.8	45
51	Mechanism and kinetics of organic matter degradation based on particle structure variation during pig manure aerobic composting. Journal of Hazardous Materials, 2015, 292, 19-26.	6.5	45
52	On-line measurement of proximates and lignocellulose components of corn stover using NIRS. Applied Energy, 2015, 137, 18-25.	5.1	44
53	Particle-Scale Modeling of Methane Emission during Pig Manure/Wheat Straw Aerobic Composting. Environmental Science & Technology, 2016, 50, 4374-4383.	4.6	44
54	Cellulose modification by recyclable swelling solvents. Biotechnology for Biofuels, 2018, 11, 191.	6.2	44

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55	Effect of water-washing of wheat straw and hydrothermal temperature on its hydrochar evolution and combustion properties. Bioresource Technology, 2018, 269, 96-103.	4.8	44
56	Use of â€œBricks and Mortarâ€•Model To Predict Transdermal Permeation: Model Development and Initial Validation. Industrial & Engineering Chemistry Research, 2008, 47, 6465-6472.	1.8	43
57	Determination of partition and binding properties of solutes to stratum corneum. International Journal of Pharmaceutics, 2010, 398, 114-122.	2.6	43
58	Facile fabrication of magnetic bio-derived chars by co-mixing with Fe3O4 nanoparticles for effective Pb2+ adsorption: Properties and mechanism. Journal of Cleaner Production, 2020, 262, 121350.	4.6	43
59	High-solids enzymatic hydrolysis of ball-milled corn stover with reduced slurry viscosity and improved sugar yields. Biotechnology for Biofuels, 2020, 13, 77.	6.2	42
60	Variations in the fate and risk analysis of amoxicillin and its degradation products during pig manure aerobic composting. Journal of Hazardous Materials, 2018, 346, 234-241.	6.5	41
61	Effect and microbial reaction mechanism of rice straw biochar on pore methane production during mainstream large-scale aerobic composting in China. Journal of Cleaner Production, 2019, 215, 1223-1232.	4.6	41
62	Comparative evaluation of bone chars derived from bovine parts: Physicochemical properties and copper sorption behavior. Science of the Total Environment, 2020, 700, 134470.	3.9	41
63	Characterization of a pathogenesis-related class 10 protein (PR-10) from Astragalus mongholicus with ribonuclease activity. Plant Physiology and Biochemistry, 2008, 46, 93-99.	2.8	40
64	The Rapid Estimation of Cellulose, Hemicellulose, and Lignin Contents in Rice Straw by Near Infrared Spectroscopy. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2010, 33, 114-120.	1.2	39
65	Study on in situ analysis of cellulose, hemicelluloses and lignin distribution linked to tissue structure of crop stalk internodal transverse section based on FTIR microspectroscopic imaging. Cellulose, 2015, 22, 139-149.	2.4	37
66	Quantitative approaches for illustrating correlations among the mechanical fragmentation scales, crystallinity and enzymatic hydrolysis glucose yield of rice straw. Bioresource Technology, 2017, 241, 262-268.	4.8	37
67	In Silico Prediction of Percutaneous Absorption and Disposition Kinetics of Chemicals. Pharmaceutical Research, 2015, 32, 1779-1793.	1.7	36
68	Prediction of heating value of straw by proximate data, and near infrared spectroscopy. Energy Conversion and Management, 2008, 49, 3433-3438.	4.4	35
69	Pyrolysis characteristics and gaseous product release properties of different livestock and poultry manures: Comparative study regarding influence of inherent alkali metals. Journal of Analytical and Applied Pyrolysis, 2018, 134, 343-350.	2.6	35
70	Biological systems for treatment and valorization of wastewater generated from hydrothermal liquefaction of biomass and systems thinking: A review. Bioresource Technology, 2019, 278, 329-345.	4.8	35
71	Isolation and purification of flavonoid glucosides from Radix Astragali by high-speed counter-current chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 697-702.	1.2	34
72	Dynamics of oxygen supply and consumption during mainstream large-scale composting in China. Bioresource Technology, 2016, 220, 104-109.	4.8	34

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73	Metagenomic and q-PCR analysis reveals the effect of powder bamboo biochar on nitrous oxide and ammonia emissions during aerobic composting. Bioresource Technology, 2021, 323, 124567.	4.8	34
74	Ball milling for cellulose depolymerization and alcoholysis to produce methyl levulinate at mild temperature. Fuel Processing Technology, 2019, 188, 129-136.	3.7	32
75	Effects of semi-permeable membrane covering coupled with intermittent aeration on gas emissions during aerobic composting from the solid fraction of dairy manure at industrial scale. Waste Management, 2021, 131, 1-9.	3.7	32
76	A novel film–pore–surface diffusion model to explain the enhanced enzyme adsorption of corn stover pretreated by ultrafine grinding. Biotechnology for Biofuels, 2016, 9, 181.	6.2	31
77	Efficient microwave-assisted production of biofuel ethyl levulinate from corn stover in ethanol medium. Journal of Energy Chemistry, 2018, 27, 890-897.	7.1	31
78	Catalysis performance comparison of a Brønsted acid H_2SO_4 and a Lewis acid $Al_2(SO_4)_3$ in methyl levulinate production from biomass carbohydrates. Journal of Energy Chemistry, 2018, 27, 552-558.	7.1	30
79	Rapid Estimation of the Composition of Animal Manure Compost by near Infrared Reflectance Spectroscopy. Journal of Near Infrared Spectroscopy, 2007, 15, 387-394.	0.8	29
80	An overview of the legislation and light microscopy for detection of processed animal proteins in feeds. Microscopy Research and Technique, 2011, 74, 735-743.	1.2	29
81	Modelling for reactor-style aerobic composting based on coupling theory of mass-heat-momentum transport and Contois equation. Bioresource Technology, 2018, 253, 165-174.	4.8	29
82	Comparison and intrinsic correlation analysis based on composition, microstructure and enzymatic hydrolysis of corn stover after different types of pretreatments. Bioresource Technology, 2019, 293, 122016.	4.8	29
83	Effects and mechanism of pyrolysis temperature on physicochemical properties of corn stalk pellet biochar based on combined characterization approach of microcomputed tomography and chemical analysis. Bioresource Technology, 2021, 329, 124907.	4.8	29
84	Review of the Application of Near-Infrared Spectroscopy Technology to Determine the Chemical Composition of Animal Manure. Journal of Environmental Quality, 2013, 42, 1015-1028.	1.0	27
85	Effects of the functional membrane covering on the gas emissions and bacterial community during aerobic composting. Bioresource Technology, 2021, 340, 125660.	4.8	27
86	Development of a Prototype Nutrient Sensing System for Livestock Slurries. Biosystems Engineering, 1998, 69, 217-228.	0.4	26
87	Rapidly Estimating Nutrient Contents of Fattening Pig Manure from Floor Scrapings by near Infrared Reflectance Spectroscopy. Journal of Near Infrared Spectroscopy, 2006, 14, 261-268.	0.8	26
88	Analytical Raman spectroscopic study for discriminant analysis of different animal-derived feedstuff: Understanding the high correlation between Raman spectroscopy and lipid characteristics. Food Chemistry, 2018, 240, 989-996.	4.2	26
89	A Review on the Use of Near-Infrared Spectroscopy for Analyzing Feed Protein Materials. Applied Spectroscopy Reviews, 2013, 48, 509-522.	3.4	25
90	A high production of flavonoids and anthraquinones via adventitious root culture of Oplopanax elatus and evaluating antioxidant activity. Plant Cell, Tissue and Organ Culture, 2019, 137, 173-179.	1.2	25

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91	Insights into the improvement of the enzymatic hydrolysis of bovine bone protein using lipase pretreatment. Food Chemistry, 2020, 302, 125199.	4.2	25
92	Microbiological safety and antibiotic resistance risks at a sustainable farm under large-scale open-air composting and composting toilet systems. Journal of Hazardous Materials, 2021, 401, 123391.	6.5	25
93	The Potential of near Infrared Microscopy to Detect, Identify and Quantify Processed Animal by-Products. Journal of Near Infrared Spectroscopy, 2011, 19, 211-231.	0.8	24
94	Local partial least squares based on global PLS scores. Journal of Chemometrics, 2019, 33, e3117.	0.7	24
95	Exploring the impact of biochar on antibiotics and antibiotics resistance genes in pig manure aerobic composting through untargeted metabolomics and metagenomics. Bioresource Technology, 2022, 352, 127118.	4.8	24
96	Influence of environmental moisture on atmospheric pressure plasma jet treatment of ultrahigh-modulus polyethylene fibers. Journal of Adhesion Science and Technology, 2007, 21, 663-676.	1.4	23
97	Quantitative characterization of enzyme adsorption and hydrolytic performance for ultrafine grinding pretreated corn stover. Bioresource Technology, 2017, 234, 23-32.	4.8	23
98	Evaluation of Controlled Release Urea on the Dynamics of Nitrate, Ammonium, and Its Nitrogen Release in Black Soils of Northeast China. International Journal of Environmental Research and Public Health, 2018, 15, 119.	1.2	23
99	Effects of Hydrothermal Carbonization Conditions on the Combustion and Kinetics of Wheat Straw Hydrochar Pellets and Efficiency Improvement Analyses. Energy & Fuels, 2020, 34, 587-598.	2.5	23
100	Development of metal-doping mesoporous biochar catalyst for co-valorizing biomass and plastic waste into valuable hydrocarbons, syngas, and carbons. Fuel Processing Technology, 2022, 227, 107127.	3.7	23
101	Models Predicting Calorific Value of Straw from the Ash Content. International Journal of Green Energy, 2008, 5, 533-539.	2.1	22
102	Rapid estimation of nutrients in chicken manure during plant-field composting using physicochemical properties. Bioresource Technology, 2011, 102, 1455-1461.	4.8	22
103	Potential of water-washing of rape straw on thermal properties and interactions during co-combustion with bituminous coal. Bioresource Technology, 2017, 234, 53-60.	4.8	21
104	Advances in energy systems for valorization of aqueous byproducts generated from hydrothermal processing of biomass and systems thinking. Green Chemistry, 2019, 21, 2518-2543.	4.6	21
105	Effects of functional-membrane covering technique on nitrogen succession during aerobic composting: Metabolic pathways, functional enzymes, and functional genes. Bioresource Technology, 2022, 354, 127205.	4.8	21
106	Visualization and Semiquantitative Study of the Distribution of Major Components in Wheat Straw in Mesoscopic Scale using Fourier Transform Infrared Microspectroscopic Imaging. Analytical Chemistry, 2018, 90, 7332-7340.	3.2	20
107	Mechanical fragmentation of wheat and rice straw at different scales: Energy requirement in relation to microstructure properties and enzymatic hydrolysis. Energy Conversion and Management, 2018, 171, 38-47.	4.4	20
108	Insight into the adsorption isotherms and kinetics of Pb (II) on pellet biochar via in-situ non-destructive 3D visualization using micro-computed tomography. Bioresource Technology, 2022, 358, 127406.	4.8	20

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109	A feasibility study of non-targeted adulterant screening based on NIRM spectral library of soybean meal to guarantee quality: The example of non-protein nitrogen. Food Chemistry, 2016, 210, 35-42.	4.2	19
110	One-pot fractionation of corn stover with peracetic acid and maleic acid. Bioresource Technology, 2021, 320, 124306.	4.8	19
111	Systematic comparison for effects of different scale mechanical-NaOH coupling treatments on lignocellulosic components, micromorphology and cellulose crystal structure of wheat straw. Bioresource Technology, 2021, 326, 124786.	4.8	19
112	Fast hydrothermal co-liquefaction of corn stover and cow manure for biocrude and hydrochar production. Bioresource Technology, 2021, 340, 125630.	4.8	19
113	Quantitative and qualitative characterization of dual scale mechanical enhancement on cellulosic and crystalline-structural variation of NaOH treated wheat straw. Bioresource Technology, 2020, 312, 123535.	4.8	19
114	Chemical Composition and Calorific Value Prediction of Wheat Straw at Different Maturity Stages Using Near-Infrared Reflectance Spectroscopy. Energy & Fuels, 2014, 28, 7474-7482.	2.5	18
115	Study on the Characteristic Spectral Properties for Species Identification of Animal-Derived Feedstuff Using Fourier Transform Infrared Spectroscopy. Applied Spectroscopy, 2017, 71, 2446-2456.	1.2	18
116	Effects of different pretreatments on compression molding of wheat straw and mechanism analysis. Bioresource Technology, 2018, 251, 210-217.	4.8	18
117	Detecting and quantifying meat meal or meat and bone meal contamination in fishmeal by visible and near infrared reflectance spectra. Animal Feed Science and Technology, 2008, 147, 357-367.	1.1	17
118	METTL3-Dependent Glycolysis Regulates Dental Pulp Stem Cell Differentiation. Journal of Dental Research, 2022, 101, 580-589.	2.5	17
119	Effect of micro-aerobic conditions based on semipermeable membrane-covered on greenhouse gas emissions and bacterial community during dairy manure storage at industrial scale. Environmental Pollution, 2022, 299, 118879.	3.7	17
120	Classification the geographical origin of corn distillers dried grains with solubles by near infrared reflectance spectroscopy combined with chemometrics: A feasibility study. Food Chemistry, 2015, 189, 13-18.	4.2	16
121	Product Analysis for Microwave-Assisted Methanolysis of Lignocellulose. Energy & Fuels, 2016, 30, 8246-8251.	2.5	16
122	Particle-scale modeling of oxygen uptake rate during pig manureâ€"wheat straw composting: A new approach that considers surface convection. International Journal of Heat and Mass Transfer, 2016, 97, 735-741.	2.5	16
123	Nitrogen-to-Protein Conversion Factors for Crop Residues and Animal Manure Common in China. Journal of Agricultural and Food Chemistry, 2017, 65, 9186-9190.	2.4	16
124	Spatial and temporal distribution of pore gas concentrations during mainstream large-scale trough composting in China. Waste Management, 2018, 75, 297-304.	3.7	16
125	The effect of ultrafine and coarse grinding on the suspending and precipitating properties of black tea powder particles. Journal of Food Engineering, 2018, 223, 124-131.	2.7	16
126	Impact of biomass feedstock variability on acid-catalyzed alcoholysis performance. Fuel Processing Technology, 2018, 180, 14-22.	3.7	16

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127	A novel FT-IR spectroscopic method based on lipid characteristics for qualitative and quantitative analysis of animal-derived feedstuff adulterated with ruminant ingredients. Food Chemistry, 2017, 237, 342-349.	4.2	15
128	Particle-scale visualization of the evolution of methanogens and methanotrophs and its correlation with CH4 emissions during manure aerobic composting. Waste Management, 2018, 78, 135-143.	3.7	15
129	Quantitative Analysis of Major Metals in Agricultural Biochar Using Laser-Induced Breakdown Spectroscopy with an Adaboost Artificial Neural Network Algorithm. Molecules, 2019, 24, 3753.	1.7	15
130	Specific role of aluminum site on the activation of carbonyl groups of methyl levulinate over Al(OiPr)3 for Î³-valerolactone production. Chemical Engineering Journal, 2020, 390, 124505.	6.6	15
131	Complementarity of FT-IR and Raman spectroscopies for the species discrimination of meat and bone meals related to lipid molecular profiles. Food Chemistry, 2021, 345, 128754.	4.2	15
132	Estimating nutrient contents of pig slurries rapidly by measurement of physical and chemical properties. Journal of Agricultural Science, 2006, 144, 261-267.	0.6	14
133	Modeling transdermal permeation. Part I. Predicting skin permeability of both hydrophobic and hydrophilic solutes. AICHE Journal, 2010, 56, 1136-1146.	1.8	14
134	A novel denoising method for laser-induced breakdown spectroscopy: Improved wavelet dual threshold function method and its application to quantitative modeling of Cu and Zn in Chinese animal manure composts. Microchemical Journal, 2017, 134, 262-269.	2.3	14
135	Alcoholysis of Ball-Milled Corn Stover: The Enhanced Conversion of Carbohydrates into Biobased Chemicals over Combination Catalysts of [Bmim-SO$_3$H][HSO$_4$] and Al$_2$(SO$_4$)$_3$. Energy & Fuels, 2020, 34, 7085-7093.	2.5	14
136	Effect of combined wet alkaline mechanical pretreatment on enzymatic hydrolysis of corn stover and its mechanism. , 2022, 15, 31.		14
137	Influence of Crop Residue Types on Microwave-Assisted Liquefaction Performance and Products. Energy & Fuels, 2013, 27, 3204-3208.	2.5	13
138	Rapid Liquefaction of Corn Stover with Microwave Heating. BioResources, 2015, 10, .	0.5	13
139	Effects of multiscale-mechanical grinding process on physicochemical properties of black tea particles and their water extracts. Food and Bioproducts Processing, 2017, 105, 171-178.	1.8	13
140	Classification of fish meal produced in China and Peru by online near infrared spectroscopy with characteristic wavelength variables. Journal of Near Infrared Spectroscopy, 2017, 25, 63-71.	0.8	13
141	Analysis of regulative variables on greenhouse gas emissions and spatial pore gas concentrations with modeling during large-scale trough composting. Journal of Cleaner Production, 2020, 277, 124066.	4.6	12
142	Evaluation of physicochemical models for rapidly estimating pig manure nutrient content. Biosystems Engineering, 2009, 103, 313-320.	1.9	11
143	Exploring the microbial mechanism of reducing methanogenesis during dairy manure membrane-covered aerobic composting at industrial scale. Bioresource Technology, 2022, 354, 127214.	4.8	11
144	Imaging of Thermal Conductivity with Sub-Micrometer Resolution Using Scanning Thermal Microscopy. International Journal of Thermophysics, 2002, 23, 1115-1124.	1.0	10

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145	The development of agro-residue densified fuel in China based on energetics analysis. Waste Management, 2010, 30, 808-813.	3.7	10
146	A multi-scale biomechanical model based on the physiological structure and lignocellulose components of wheat straw. Carbohydrate Polymers, 2015, 133, 135-143.	5.1	10
147	Characteristic modification of alkalized corn stalk and contribution to the bonding mechanism of fuel briquette. Energy, 2017, 133, 299-305.	4.5	10
148	Optimization of culture medium components and culture period for production of adventitious roots of Echinacea pallida (Nutt.) Nutt. Plant Cell, Tissue and Organ Culture, 2018, 135, 299-307.	1.2	10
149	Membrane-covered composting significantly decreases methane emissions and microbial pathogens: Insight into the succession of bacterial and fungal communities. Science of the Total Environment, 2022, 845, 157343.	3.9	10
150	Experimental setup for very high resolution animal PET based on solid state detector. , 0, , .		9
151	Modeling transdermal permeation. Part 2. Predicting the dermatopharmacokinetics of percutaneous solute. AIChE Journal, 2010, 56, 2551-2560.	1.8	9
152	Molecular and thermodynamic basis for EGCGâ€Keratin interactionâ€part II: Experimental investigation. AIChE Journal, 2013, 59, 4824-4827.	1.8	9
153	Molecular and thermodynamic basis for EGCGâ€Keratin interactionâ€part I: Molecular dynamics simulations. AIChE Journal, 2013, 59, 4816-4823.	1.8	9
154	Physicochemical Composition and Energy Property Changes of Wheat Straw Cultivars with Advancing Growth Days at Maturity. Energy & Fuels, 2013, 27, 5940-5947.	2.5	9
155	A comparative study on enzyme adsorption and hydrolytic performance of different scale corn stover by two-step kinetics. Bioresource Technology, 2019, 282, 384-389.	4.8	9
156	A novel near infrared spectroscopy analytical strategy for meat and bone meal species discrimination based on the insight of fraction composition complexity. Food Chemistry, 2021, 344, 128645.	4.2	9
157	FT-IR-based quantitative analysis strategy for target adulterant in fish oil multiply adulterated with terrestrial animal lipid. Food Chemistry, 2021, 343, 128420.	4.2	9
158	Prediction of Chemical Parameters in Maize Silage by near Infrared Reflectance Spectroscopy. Journal of Near Infrared Spectroscopy, 2006, 14, 333-339.	0.8	8
159	Kinetics and Equilibrium of Solute Diffusion into Human Hair. Annals of Biomedical Engineering, 2012, 40, 2719-2726.	1.3	8
160	Description of Wheat Straw Relaxation Behavior Based on a Fractionalâ€Order Constitutive Model. Agronomy Journal, 2013, 105, 134-142.	0.9	8
161	A novel FTIR discrimination based on genomic DNA for species-specific analysis of meat and bone meal. Food Chemistry, 2019, 294, 526-532.	4.2	8
162	Simultaneous Detection of Carnosine and Anserine by UHPLC-MS/MS and Its Application on Biomarker Analysis for Differentiation of Meat and Bone Meal. Molecules, 2019, 24, 217.	1.7	8

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163	A particle scale micro-CT approach for 3D in-situ visualizing the Pb (II) adsorption in different crop residue-derived chars. Bioresource Technology, 2022, 344, 126269.	4.8	8
164	Spin-dependent shot noise in diluted-magnetic-semiconductor/ semiconductor heterostructures. European Physical Journal B, 2008, 62, 45-51.	0.6	7
165	Near Infrared Spectroscopy Calibration Transfer for Quantitative Analysis of Fish Meal Mixed with Soybean Meal. Journal of Near Infrared Spectroscopy, 2010, 18, 217-223.	0.8	7
166	Influence of Microwave Heating on the Liquefaction Kinetics of Corn Stover in Ethylene Glycol. BioResources, 2013, 8, .	0.5	7
167	Rapid screening and visual tracing of melamine in soybean meal by NIR microscopy imaging. Journal of Innovative Optical Health Sciences, 2014, 07, 1350072.	0.5	7
168	Detection of Melamine in Soybean Meal Using Near-Infrared Microscopy Imaging with Pure Component Spectra as the Evaluation Criteria. Journal of Spectroscopy, 2016, 2016, 1-11.	0.6	7
169	Characterization of digestate composting stability using fluorescence EEM spectroscopy combining with PARAFAC. Waste Management and Research, 2019, 37, 486-494.	2.2	7
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