

Chi-Hwa Wang

List of Publications by Year in descending order

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Version: 2024-02-01

188
papers

9,580
citations

28274

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h-index

48315

88
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189
all docs

189
docs citations

189
times ranked

10320
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling the co-firing of coal and biomass in a 10 kWth oxy-fuel fluidized bed. Powder Technology, 2022, 395, 43-59.	4.2	10
2	Sustainable production of bio-oil and carbonaceous materials from biowaste co-pyrolysis. Chemical Engineering Journal, 2022, 427, 131821.	12.7	11
3	Superhydrophobic leached carbon Black/Poly(vinyl) alcohol aerogel for selective removal of oils and organic compounds from water. Chemosphere, 2022, 286, 131520.	8.2	13
4	Toxicity effects of size fractions of incinerated sewage sludge bottom ash on human cell lines. Environment International, 2022, 158, 106881.	10.0	6
5	Experimental and numerical study on thermal performance of an indirectly irradiated solar reactor with a clapboard-type internally circulating fluidized bed. Applied Energy, 2022, 305, 117976.	10.1	10
6	Co-firing of coal and biomass under pressurized oxy-fuel combustion mode: Experimental test in a 10 kWth fluidized bed. Chemical Engineering Journal, 2022, 431, 133457.	12.7	10
7	Fabricating scalable, personalized wound dressings with customizable drug loadings via 3D printing. Journal of Controlled Release, 2022, 341, 80-94.	9.9	40
8	Gas-solid reaction induced particle collision and aggregation. Combustion and Flame, 2022, 237, 111885.	5.2	5
9	Conversion of Waste Plastic Packings to Carbon Nanomaterials: Investigation into Catalyst Material, Waste Type, and Product Applications. ACS Sustainable Chemistry and Engineering, 2022, 10, 1125-1136.	6.7	39
10	Plastic-containing food waste conversion to biomethane, syngas, and biochar via anaerobic digestion and gasification: Focusing on reactor performance, microbial community analysis, and energy balance assessment. Journal of Environmental Management, 2022, 306, 114471.	7.8	14
11	Energy and environmental risk assessments of poultry manure sustainable solution: An industrial case study in Singapore. Journal of Cleaner Production, 2022, 339, 130787.	9.3	5
12	3D Printing Methyl Cellulose Hydrogel Wound Dressings with Parameter Exploration Via Computational Fluid Dynamics Simulation. Pharmaceutical Research, 2022, 39, 281-294.	3.5	12
13	Sewage sludge ash-based mortar as construction material: Mechanical studies, macrofouling, and marine toxicity. Science of the Total Environment, 2022, 824, 153768.	8.0	8
14	Optical alignment and radiative flux characterization of a multi-source high-flux solar simulator. Solar Energy, 2022, 236, 434-444.	6.1	6
15	Mesoporous silica-encaged ultrafine ceria/nickel hydroxide nanocatalysts for solar thermochemical dry methane reforming. Applied Physics Letters, 2022, 120, .	3.3	7
16	An innovative accelerated carbonation process for treatment of incineration bottom ash and biogas upgrading. Waste Management, 2022, 144, 203-209.	7.4	4
17	Microbial succession analysis reveals the significance of restoring functional microorganisms during rescue of failed anaerobic digesters by bioaugmentation of nano-biochar-amended digestate. Bioresource Technology, 2022, 352, 127102.	9.6	9
18	Life cycle climate change mitigation through next-generation urban waste recovery systems in high-density Asian cities: A Singapore Case Study. Resources, Conservation and Recycling, 2022, 181, 106265.	10.8	7

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19	Freeze-casting multicomponent aerogel membrane with controllable asymmetric multilayer configuration for high flux gravity-driven separation of oil-water emulsion. Separation and Purification Technology, 2022, 293, 121087.	7.9	6
20	Customizing high-performance molten salt biochar from wood waste for CO ₂ /N ₂ separation. Fuel Processing Technology, 2022, 234, 107319.	7.2	23
21	Sustainable and Highly Efficient Recycling of Plastic Waste into Syngas via a Chemical Looping Scheme. Environmental Science & Technology, 2022, 56, 8953-8963.	10.0	15
22	Methanosarcina thermophila bioaugmentation and its synergy with biochar growth support particles versus polypropylene microplastics in thermophilic food waste anaerobic digestion. Bioresource Technology, 2022, 360, 127531.	9.6	9
23	Thermodynamic analysis of an epitrochoidal rotary reactor for solar hydrogen production via a water-splitting thermochemical cycle using nonstoichiometric ceria. Energy Conversion and Management, 2022, 268, 115968.	9.2	9
24	Bioaugmentation of Methanosarcina thermophila grown on biochar particles during semi-continuous thermophilic food waste anaerobic digestion under two different bioaugmentation regimes. Bioresource Technology, 2022, 360, 127590.	9.6	4
25	Energetic, economic, and environmental assessment of a Stirling engine based gasification CCHP system. Applied Energy, 2021, 281, 116067.	10.1	27
26	Impact of temperature on the activity of Fe-Ni catalysts for pyrolysis and decomposition processing of plastic waste. Chemical Engineering Journal, 2021, 408, 127268.	12.7	96
27	Input parameter tuning of 3D biodiesel engine simulation using parallel surrogate optimization algorithm. Computers and Chemical Engineering, 2021, 145, 107180.	3.8	0
28	Biochar industry to circular economy. Science of the Total Environment, 2021, 757, 143820.	8.0	100
29	Synergistic effect on co-gasification of chicken manure and petroleum coke: An investigation of sustainable waste management. Chemical Engineering Journal, 2021, 417, 128008.	12.7	17
30	Experimental investigation on a dehumidification unit with heat recovery using desiccant coated heat exchanger in waste to energy system. Applied Thermal Engineering, 2021, 185, 116342.	6.0	27
31	Optimized construction of a full thickness human skin equivalent using 3D bioprinting and a PCL/collagen dermal scaffold. Bioprinting, 2021, 21, e00123.	5.8	48
32	Syntrophic interactions in anaerobic digestion: how biochar properties affect them?. Sustainable Environment, 2021, 7, .	2.4	8
33	Numerical investigation of electrostatic effect on particle behavior in a 90 degrees bend. Advanced Powder Technology, 2021, 32, 810-824.	4.1	6
34	Emerging pharmaceutical and organic contaminants removal using carbonaceous waste from oil refineries. Chemosphere, 2021, 271, 129542.	8.2	16
35	Water hyacinth for energy and environmental applications: A review. Bioresource Technology, 2021, 327, 124809.	9.6	51
36	Roles of Biochar and CO ₂ Curing in Sustainable Magnesia Cement-Based Composites. ACS Sustainable Chemistry and Engineering, 2021, 9, 8603-8610.	6.7	62

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37	Food waste treating by biochar-assisted high-solid anaerobic digestion coupled with steam gasification: Enhanced bioenergy generation and porous biochar production. <i>Bioresource Technology</i> , 2021, 331, 125051.	9.6	29
38	Dynamic modeling with experimental calibration for the syngas production from biomass fixed-bed gasification. <i>AIChE Journal</i> , 2021, 67, e17366.	3.6	1
39	3D Printing Personalized, Photocrosslinkable Hydrogel Wound Dressings for the Treatment of Thermal Burns. <i>Advanced Functional Materials</i> , 2021, 31, 2105932.	14.9	60
40	Convection enhanced delivery of light responsive antigen capturing oxygen generators for chemo-phototherapy triggered adaptive immunity. <i>Biomaterials</i> , 2021, 275, 120974.	11.4	12
41	Biochar utilisation in the anaerobic digestion of food waste for the creation of a circular economy via biogas upgrading and digestate treatment. <i>Bioresource Technology</i> , 2021, 333, 125190.	9.6	40
42	Gasification biochar from horticultural waste: An exemplar of the circular economy in Singapore. <i>Science of the Total Environment</i> , 2021, 781, 146573.	8.0	24
43	Flow battery electrolyte from carbon black incineration fly ash: A feasibility study of an environment friendly disposal process. <i>Waste Management</i> , 2021, 133, 28-36.	7.4	5
44	Multi-criteria optimization of a biomass gasification-based combined cooling, heating, and power system integrated with an organic Rankine cycle in different climate zones in China. <i>Energy Conversion and Management</i> , 2021, 243, 114364.	9.2	14
45	Multi-criteria decision making of biomass gasification-based cogeneration systems with heat storage and solid dehumidification of desiccant coated heat exchangers. <i>Energy</i> , 2021, 233, 121122.	8.8	12
46	Gaseous production kinetics and solid structure analysis during isothermal conversion of biomass pellet under different atmospheres. <i>Journal of the Energy Institute</i> , 2021, 98, 53-62.	5.3	5
47	Evaluating the urban metabolism sustainability of municipal solid waste management system: An extended exergy accounting and indexing perspective. <i>Applied Energy</i> , 2021, 300, 117254.	10.1	12
48	Phytoremediation of Cd-contaminated farmland soil via various <i>Sedum alfredii</i> -oilseed rape cropping systems: Efficiency comparison and cost-benefit analysis. <i>Journal of Hazardous Materials</i> , 2021, 419, 126489.	12.4	53
49	Effect of novel Ni ₂ P-loaded catalysts on algal pyrolysis bio-oil. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111575.	16.4	0
50	Multi-objective optimization of an integrated biomass waste fixed-bed gasification system for power and biochar co-production. <i>Computers and Chemical Engineering</i> , 2021, 154, 107457.	3.8	5
51	Solar-driven gasification in an indirectly-irradiated thermochemical reactor with a clapboard-type internally-circulating fluidized bed. <i>Energy Conversion and Management</i> , 2021, 248, 114795.	9.2	13
52	Investigation of particle transport by a turbulent flow through a 90° bend pipe with electrostatic effects. <i>Powder Technology</i> , 2021, 394, 547-561.	4.2	12
53	Food-waste anaerobic digestate as a fertilizer: The agronomic properties of untreated digestate and biochar-filtered digestate residue. <i>Waste Management</i> , 2021, 136, 143-152.	7.4	41
54	Gasification biochar from biowaste (food waste and wood waste) for effective CO ₂ adsorption. <i>Journal of Hazardous Materials</i> , 2020, 391, 121147.	12.4	132

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55	Chemical looping gasification of biomass with Fe ₂ O ₃ /CaO as the oxygen carrier for hydrogen-enriched syngas production. <i>Chemical Engineering Journal</i> , 2020, 379, 122346.	12.7	165
56	Integrating food waste sorting system with anaerobic digestion and gasification for hydrogen and methane co-production. <i>Applied Energy</i> , 2020, 257, 113988.	10.1	52
57	Hydrogen production of solar-driven steam gasification of sewage sludge in an indirectly irradiated fluidized-bed reactor. <i>Applied Energy</i> , 2020, 261, 114229.	10.1	31
58	2017 P.V. Danckwerts Memorial Lecture special issue editorial: Advances in emerging technologies of chemical engineering towards sustainable energy and environment: Solar and biomass. <i>Chemical Engineering Science</i> , 2020, 215, 115384.	3.8	8
59	A factorial experimental analysis of using wood fly ash as an alkaline activator along with coal fly ash for production of geopolymer-cementitious hybrids. <i>Science of the Total Environment</i> , 2020, 718, 135289.	8.0	20
60	The research and development of waste-to-hydrogen technologies and systems. <i>Applied Energy</i> , 2020, 268, 115015.	10.1	2
61	Experimental investigation of pressure fluctuation propagation in two orthogonal directions using a clapboard-type internally circulating fluidized bed. <i>Advanced Powder Technology</i> , 2020, 31, 3395-3407.	4.1	10
62	A 28 kWe multi-source high-flux solar simulator: Design, characterization, and modeling. <i>Solar Energy</i> , 2020, 211, 569-583.	6.1	20
63	Insight into the Fe ₂ O ₃ /CaO-based chemical looping process for biomass conversion. <i>Bioresource Technology</i> , 2020, 310, 123384.	9.6	22
64	Biochar enhanced thermophilic anaerobic digestion of food waste: Focusing on biochar particle size, microbial community analysis and pilot-scale application. <i>Energy Conversion and Management</i> , 2020, 209, 112654.	9.2	125
65	Experimental and numerical study of biomass catalytic pyrolysis using Ni ₂ P-loaded zeolite: Product distribution, characterization and overall benefit. <i>Energy Conversion and Management</i> , 2020, 208, 112581.	9.2	18
66	Sustainable gasification biochar as a high efficiency adsorbent for CO ₂ capture: A facile method to designer biochar fabrication. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 124, 109785.	16.4	107
67	Optimization of operation strategies of a syngas-fueled engine in a distributed gasifier-generator system driven by horticulture waste. <i>Energy Conversion and Management</i> , 2020, 208, 112580.	9.2	10
68	Characterization of granular electrostatics generation. <i>Powder Technology</i> , 2020, 363, 74-85.	4.2	8
69	Steam co-gasification of horticultural waste and sewage sludge: Product distribution, synergistic analysis and optimization. <i>Bioresource Technology</i> , 2020, 301, 122780.	9.6	46
70	Effects of the three dual-fuel strategies on performance and emissions of a biodiesel engine. <i>Applied Energy</i> , 2020, 262, 114542.	10.1	35
71	Methane yield enhancement of mesophilic and thermophilic anaerobic co-digestion of algal biomass and food waste using algal biochar: Semi-continuous operation and microbial community analysis. <i>Bioresource Technology</i> , 2020, 302, 122892.	9.6	83
72	Impacts of biochar concentration on the growth performance of a leafy vegetable in a tropical city and its global warming potential. <i>Journal of Cleaner Production</i> , 2020, 264, 121678.	9.3	26

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73	Using CO ₂ as an Oxidant in the Catalytic Pyrolysis of Peat Moss from the North Polar Region. <i>Environmental Science & Technology</i> , 2020, 54, 6329-6343.	10.0	40
74	Biochar for urban agriculture: Impacts on soil chemical characteristics and on Brassica rapa growth, nutrient content and metabolism over multiple growth cycles. <i>Science of the Total Environment</i> , 2020, 727, 138742.	8.0	33
75	Pyrolysis and in-line catalytic decomposition of polypropylene to carbon nanomaterials and hydrogen over Fe- and Ni-based catalysts. <i>Applied Energy</i> , 2020, 265, 114819.	10.1	108
76	A hybrid peripheral fragmentation and shrinking-core model for fixed-bed biomass gasification. <i>Chemical Engineering Journal</i> , 2020, 400, 124940.	12.7	19
77	Enhanced penetration of pro-apoptotic and anti-angiogenic micellar nanoprobe in 3D multicellular spheroids for chemophototherapy. <i>Journal of Controlled Release</i> , 2020, 323, 502-518.	9.9	22
78	Energetic and economic evaluation of hybrid solar energy systems in a residential net-zero energy building. <i>Applied Energy</i> , 2019, 254, 113709.	10.1	70
79	Mesoporous Silica-Encaged Ultrafine Bimetallic Nanocatalysts for CO ₂ Hydrogenation to Formates. <i>ChemCatChem</i> , 2019, 11, 5093-5097.	3.7	35
80	Investigation of the application of a Taylor-Couette bioreactor in the post-processing of bioprinted human dermal tissue. <i>Biochemical Engineering Journal</i> , 2019, 151, 107317.	3.6	14
81	Organic waste to biohydrogen: A critical review from technological development and environmental impact analysis perspective. <i>Applied Energy</i> , 2019, 256, 113961.	10.1	111
82	Economic production of monoclinic bismuth vanadate from waste vanadium ions: Process design and cost-benefit analysis. <i>Journal of Cleaner Production</i> , 2019, 240, 118188.	9.3	6
83	Experimental and modeling investigation of an integrated biomass gasifier-“engine”-generator system for power generation and waste heat recovery. <i>Energy Conversion and Management</i> , 2019, 199, 112023.	9.2	24
84	Localized Delivery of Pilocarpine to Hypofunctional Salivary Glands through Electrospun Nanofiber Mats: An Ex Vivo and In Vivo Study. <i>International Journal of Molecular Sciences</i> , 2019, 20, 541.	4.1	12
85	Mesophilic and thermophilic anaerobic digestion of soybean curd residue for methane production: Characterizing bacterial and methanogen communities and their correlations with organic loading rate and operating temperature. <i>Bioresource Technology</i> , 2019, 288, 121597.	9.6	56
86	Three-stage anaerobic co-digestion of food waste and waste activated sludge: Identifying bacterial and methanogenic archaeal communities and their correlations with performance parameters. <i>Bioresource Technology</i> , 2019, 285, 121333.	9.6	20
87	Performance analysis of a biomass gasification-based CCHP system integrated with variable-effect LiBr-H ₂ O absorption cooling and desiccant dehumidification. <i>Energy</i> , 2019, 176, 961-979.	8.8	29
88	Optimal design of negative emission hybrid renewable energy systems with biochar production. <i>Applied Energy</i> , 2019, 243, 233-249.	10.1	60
89	Box-Behnken design based CO ₂ co-gasification of horticultural waste and sewage sludge with addition of ash from waste as catalyst. <i>Applied Energy</i> , 2019, 242, 1549-1561.	10.1	25
90	Techno-economic analysis of geopolymers production from the coal fly ash with high iron oxide and calcium oxide contents. <i>Journal of Hazardous Materials</i> , 2019, 361, 237-244.	12.4	46

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91	CO ₂ gasification of woody biomass: Experimental study from a lab-scale reactor to a small-scale autothermal gasifier. <i>Energy</i> , 2019, 170, 497-506.	8.8	78
92	Effect of gasification biochar application on soil quality: Trace metal behavior, microbial community, and soil dissolved organic matter. <i>Journal of Hazardous Materials</i> , 2019, 365, 684-694.	12.4	156
93	Development of Nanoparticles for Drug Delivery to Brain Tumor: The Effect of Surface Materials on Penetration Into Brain Tissue. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 1736-1745.	3.3	28
94	Characterization and ecotoxicological investigation of biochar produced via slow pyrolysis: Effect of feedstock composition and pyrolysis conditions. <i>Journal of Hazardous Materials</i> , 2019, 365, 178-185.	12.4	100
95	Heart developmental toxicity by carbon black waste generated from oil refinery on zebrafish embryos (<i>Danio rerio</i>): Combined toxicity on heart function by nickel and vanadium. <i>Journal of Hazardous Materials</i> , 2019, 363, 127-137.	12.4	25
96	Removal of nitrate and phosphate by chitosan composited beads derived from crude oil refinery waste: Sorption and cost-benefit analysis. <i>Journal of Cleaner Production</i> , 2019, 207, 846-856.	9.3	58
97	Effective Recovery of Vanadium from Oil Refinery Waste into Vanadium-Based Metal-Organic Frameworks. <i>Environmental Science & Technology</i> , 2018, 52, 3008-3015.	10.0	37
98	Overall evaluation of microwave-assisted alkali pretreatment for enhancement of biomethane production from brewers' spent grain. <i>Energy Conversion and Management</i> , 2018, 158, 315-326.	9.2	33
99	An investigation on utilization of biogas and syngas produced from biomass waste in premixed spark ignition engine. <i>Applied Energy</i> , 2018, 212, 210-222.	10.1	67
100	Template-Free Synthesis of Alkaline Earth Vanadate Nanomaterials from Leaching Solutions of Oil Refinery Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2292-2301.	6.7	8
101	Convection enhanced delivery of chemotherapeutic drugs into brain tumour. <i>Journal of Controlled Release</i> , 2018, 271, 74-87.	9.9	56
102	Model-based downdraft biomass gasifier operation and design for synthetic gas production. <i>Journal of Cleaner Production</i> , 2018, 178, 476-493.	9.3	59
103	Simultaneous syngas and biochar production during heavy metal separation from Cd/Zn hyperaccumulator (<i>Sedum alfredii</i>) by gasification. <i>Chemical Engineering Journal</i> , 2018, 347, 543-551.	12.7	97
104	Integrated downdraft gasification with power generation system and gasification bottom ash reutilization for clean waste-to-energy and resource recovery system. <i>Journal of Cleaner Production</i> , 2018, 188, 69-79.	9.3	52
105	A hybrid biological and thermal waste-to-energy system with heat energy recovery and utilization for solid organic waste treatment. <i>Energy</i> , 2018, 152, 214-222.	8.8	40
106	Biomass gasification for syngas and biochar co-production: Energy application and economic evaluation. <i>Applied Energy</i> , 2018, 209, 43-55.	10.1	146
107	Thermodynamic assessment of a solar/autothermal hybrid gasification CCHP system with an indirectly radiative reactor. <i>Energy</i> , 2018, 142, 201-214.	8.8	36
108	Experimental and computational studies of oxygen transport in a Taylor-Couette bioreactor. <i>Chemical Engineering Journal</i> , 2018, 334, 1954-1964.	12.7	9

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109	Nitrogen Removal and Energy Recovery from Sewage Sludge by Combined Hydrothermal Pretreatment and CO ₂ Gasification. ACS Sustainable Chemistry and Engineering, 2018, 6, 16629-16636.	6.7	20
110	Towards practical application of gasification: a critical review from syngas and biochar perspectives. Critical Reviews in Environmental Science and Technology, 2018, 48, 1165-1213.	12.8	64
111	Harvest green energy through energy recovery from waste: A technology review and an assessment of Singapore. Renewable and Sustainable Energy Reviews, 2018, 98, 163-178.	16.4	46
112	Electrical Field Guided Electrospray Deposition for Production of Gradient Particle Patterns. ACS Applied Materials & Interfaces, 2018, 10, 18499-18506.	8.0	22
113	Particulate emission from the gasification and pyrolysis of biomass: Concentration, size distributions, respiratory deposition-based control measure evaluation. Environmental Pollution, 2018, 242, 1108-1118.	7.5	18
114	3D bioprinting of skin tissue: From pre-processing to final product evaluation. Advanced Drug Delivery Reviews, 2018, 132, 270-295.	13.7	122
115	On the temporal modelling of solar photovoltaic soiling: Energy and economic impacts in seven cities. Applied Energy, 2018, 228, 1136-1146.	10.1	65
116	Drug delivery systems for programmed and on-demand release. Advanced Drug Delivery Reviews, 2018, 132, 104-138.	13.7	229
117	Convection enhanced delivery of liposome encapsulated doxorubicin for brain tumour therapy. Journal of Controlled Release, 2018, 285, 212-229.	9.9	53
118	Characterization of bioenergy biochar and its utilization for metal/metalloid immobilization in contaminated soil. Science of the Total Environment, 2018, 640-641, 704-713.	8.0	110
119	A comparative life cycle assessment on four waste-to-energy scenarios for food waste generated in eateries. Applied Energy, 2018, 225, 1143-1157.	10.1	98
120	Anaerobic digestion and gasification hybrid system for potential energy recovery from yard waste and woody biomass. Energy, 2017, 124, 133-145.	8.8	48
121	Mathematical Modelling of Convection Enhanced Delivery of Carmustine and Paclitaxel for Brain Tumour Therapy. Pharmaceutical Research, 2017, 34, 860-873.	3.5	36
122	A comparison of PM exposure related to emission hotspots in a hot and humid urban environment: Concentrations, compositions, respiratory deposition, and potential health risks. Science of the Total Environment, 2017, 599-600, 464-473.	8.0	38
123	Three-stage anaerobic co-digestion of food waste and horse manure. Scientific Reports, 2017, 7, 1269.	3.3	69
124	Life cycle assessment of a sewage sludge and woody biomass co-gasification system. Energy, 2017, 137, 369-376.	8.8	52
125	Energy performance of an integrated bio-and-thermal hybrid system for lignocellulosic biomass waste treatment. Bioresource Technology, 2017, 228, 77-88.	9.6	51
126	Techno-economic and greenhouse gas savings assessment of decentralized biomass gasification for electrifying the rural areas of Indonesia. Applied Energy, 2017, 208, 495-510.	10.1	61

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127	Codelivery of anti-cancer agents via double-walled polymeric microparticles/injectable hydrogel: A promising approach for treatment of triple negative breast cancer. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2931-2946.	3.3	20
128	Comparison-Based Optical Assessment of Hyperboloid and Ellipsoid Reflectors in a Beam-Down Solar Tower System With Linear Fresnel Heliostats. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2017, 139, .	1.8	11
129	Conversion of Coal Fly Ash into Zeolite Materials: Synthesis and Characterizations, Process Design, and Its Cost-Benefit Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 11565-11574.	3.7	43
130	Coaxial electrohydrodynamic atomization toward large scale production of core-shell structured microparticles. <i>AIChE Journal</i> , 2017, 63, 5303-5319.	3.6	22
131	An environmental friendly animal waste disposal process with ammonia recovery and energy production: Experimental study and economic analysis. <i>Waste Management</i> , 2017, 68, 636-645.	7.4	31
132	Co-gasification of woody biomass and chicken manure: Syngas production, biochar reutilization, and cost-benefit analysis. <i>Energy</i> , 2017, 139, 732-742.	8.8	76
133	Coaxial double-walled microspheres for combined release of cytochrome c and doxorubicin. <i>Journal of Controlled Release</i> , 2017, 259, e30-e31.	9.9	2
134	Effective co-delivery of nutlin-3a and p53 genes via core-shell microparticles for disruption of MDM2-p53 interaction and reactivation of p53 in hepatocellular carcinoma. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5816-5834.	5.8	17
135	A critical review on sustainable biochar system through gasification: Energy and environmental applications. <i>Bioresource Technology</i> , 2017, 246, 242-253.	9.6	263
136	Chemically treated carbon black waste and its potential applications. <i>Journal of Hazardous Materials</i> , 2017, 321, 62-72.	12.4	53
137	Toxicity assessment of carbon black waste: A by-product from oil refineries. <i>Journal of Hazardous Materials</i> , 2017, 321, 600-610.	12.4	28
138	Computational study of core-shell droplet formation in coaxial electrohydrodynamic atomization process. <i>AIChE Journal</i> , 2016, 62, 4259-4276.	3.6	29
139	Sustainable biodiesel production via transesterification of waste cooking oil by using CaO catalysts prepared from chicken manure. <i>Energy Conversion and Management</i> , 2016, 123, 487-497.	9.2	240
140	Rapid toxicity screening of gasification ashes. <i>Waste Management</i> , 2016, 50, 93-104.	7.4	16
141	Investigation of granule electrostatic charge generation with normal stress effect. <i>Advanced Powder Technology</i> , 2016, 27, 2094-2101.	4.1	11
142	Double-Walled Microparticles-Embedded Self-Cross-Linked, Injectable, and Antibacterial Hydrogel for Controlled and Sustained Release of Chemotherapeutic Agents. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22785-22800.	8.0	54
143	On the association between outdoor PM2.5 concentration and the seasonality of tuberculosis for Beijing and Hong Kong. <i>Environmental Pollution</i> , 2016, 218, 1170-1179.	7.5	75
144	Comparison of the co-gasification of sewage sludge and food wastes and cost-benefit analysis of gasification- and incineration-based waste treatment schemes. <i>Bioresource Technology</i> , 2016, 218, 595-605.	9.6	105

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145	Potential application of gasification to recycle food waste and rehabilitate acidic soil from secondary forests on degraded land in Southeast Asia. <i>Journal of Environmental Management</i> , 2016, 172, 40-48.	7.8	57
146	Synthesis of intracellular reduction-sensitive amphiphilic polyethyleneimine and poly(ϵ -caprolactone) graft copolymer for on-demand release of doxorubicin and p53 plasmid DNA. <i>Acta Biomaterialia</i> , 2016, 39, 79-93.	8.3	53
147	Biomass gasification with CO ₂ in a fluidized bed. <i>Powder Technology</i> , 2016, 296, 87-101.	4.2	96
148	Activated carbon derived from carbon residue from biomass gasification and its application for dye adsorption: Kinetics, isotherms and thermodynamic studies. <i>Bioresource Technology</i> , 2016, 200, 350-359.	9.6	435
149	Co-gasification of woody biomass and sewage sludge in a fixed-bed downdraft gasifier. <i>AIChE Journal</i> , 2015, 61, 2508-2521.	3.6	122
150	Co-gasification of sewage sludge and woody biomass in a fixed-bed downdraft gasifier: Toxicity assessment of solid residues. <i>Waste Management</i> , 2015, 36, 241-255.	7.4	29
151	Biomass gasification bottom ash as a source of CaO catalyst for biodiesel production via transesterification of palm oil. <i>Energy Conversion and Management</i> , 2015, 92, 234-243.	9.2	110
152	Coaxial electrohydrodynamic atomization: Microparticles for drug delivery applications. <i>Journal of Controlled Release</i> , 2015, 205, 70-82.	9.9	81
153	Electrohydrodynamic atomization: A two-decade effort to produce and process micro-/nanoparticulate materials. <i>Chemical Engineering Science</i> , 2015, 125, 32-57.	3.8	240
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