Junhu Zhou

List of Publications by Year in Descending Order

375 papers	10,194 citations	53 h-index	74 g-index
382 ext. papers	11,805 ext. citations	6.9 avg, IF	6.51 L-index

#	Paper	IF	Citations
375	Heterogeneous reaction and homogeneous reaction coupled combustion process and mechanism of n-decane on partially packed bed combustor. *Chemical Engineering Science*, **2022**, 251, 117437	4.4	1
374	Electron transfer from Geobacter sulfurreducens to mixed methanogens improved methane production with feedstock gases of H and CO.. *Bioresource Technology*, **2022**, 347, 126680	11	0
373	Dual Metal Active Sites and an Enhanced Electric Field Boosting CO2 Reduction to CH4 in an Electromethanogenesis System. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 2890-2902	8.3	0
372	Enhancing Extracellular Electron Transfer of Geobacter sulfurreducens in Bioelectrochemical Systems Using N-Doped Fe3O4@Carbon Dots. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 3935-3950	8.3	1
371	Ignition and combustion of boron particles coated by modified materials with various action mechanisms. *Combustion and Flame*, **2022**, 242, 112208	5.3	0
370	Microbial electrochemical degradation of lipids for promoting methane production in anaerobic digestion. *Bioresource Technology*, **2021**, 126467	11	0
369	Effect of Hg2+ on the microphysical and chemical properties of oil-producing Nannochloropsis sp.. *Algal Research*, **2021**, 60, 102525	5	0
368	SO2 Impurity in Simulated Flue Gas with 15% CO2 Affects Dynamic Bubble Dissolution and Arthrospira Photosynthetic Growth. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 5580-5589	8.3	0
367	Impact of Pyrolysis Products on n-Decane Laminar Flame Speeds Investigated through Experimentation and Kinetic Simulations. *Energy & Fuels*, **2021**, 35, 8194-8204	4.1	1
366	Heterogeneous reaction and homogeneous flame coupled combustion behavior of n-decane in a partially packed catalytic bed combustor. *Fuel*, **2021**, 290, 120042	7.1	5
365	A sodium percarbonate/ultraviolet system generated free radicals for degrading capsaicin to alleviate inhibition of methane production during anaerobic digestion of lipids and food waste. *Science of the Total Environment*, **2021**, 761, 143269	10.2	6
364	Study on combustion of aluminum powder mixed with sodium borohydride at low starting temperature in steam atmosphere. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2021**, 43, 2134-2146	1.6	1
363	Pebax-based mixed matrix membranes loaded with graphene oxide/core shell ZIF-8@ZIF-67 nanocomposites improved CO2 permeability and selectivity. *Journal of Applied Polymer Science*, **2021**, 138, 50553	2.9	8
362	Dynamic characteristics of deposit fracture and impacts of operating pressure during sootblowing in the radiant syngas cooler. *Asia-Pacific Journal of Chemical Engineering*, **2021**, 16, e2615	1.3	1
361	Ultrasound and microwave pretreatments promote methane production potential and energy conversion during anaerobic digestion of lipid and food wastes. *Energy*, **2021**, 228, 120525	7.9	7
360	Zeolitic imidazolate framework-derived porous carbon enhances methanogenesis by facilitating interspecies electron transfer: Understanding fluorimetric and electrochemical responses of multi-layered extracellular polymeric substances. *Science of the Total Environment*, **2021**, 781, 146447	10.2	3
359	Combustion characteristics change induced by n-decane catalytic reactions and its effects on the coupled combustion occurrence. *Fuel Processing Technology*, **2021**, 220, 106894	7.2	4

358	Inhibition of N-Vanillylnonanamide in anaerobic digestion of lipids in food waste: Microorganisms damage and blocked electron transfer. *Journal of Hazardous Materials*, **2020**, 399, 123098	12.8	10
357	Hydrothermal alkali pretreatment contributes to fermentative methane production of a typical lipid from food waste through co-production of hydrogen with methane. *Bioresource Technology*, **2020**, 306, 123164	11	5
356	Heavy metal control in microalgae cultivation with power plant flue gas entering into raceway pond. *Environmental Science and Pollution Research*, **2020**, 27, 37357-37362	5.1	8
355	Efficient Conversion of Carbon Dioxide on Atomically Dispersed Metal□Nx Species-Anchored Porous Carbon with Embedded CuxCoy Nanoparticles by Accelerating Electron Separation. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 5994-6002	8.3	4
354	Improving hydrogen and methane co-generation in cascading dark fermentation and anaerobic digestion: The effect of magnetite nanoparticles on microbial electron transfer and syntrophism. *Chemical Engineering Journal*, **2020**, 397, 125394	14.7	41
353	Improving fermentative methane production of glycerol trioleate and food waste pretreated with ozone through two-stage dark hydrogen fermentation and anaerobic digestion. *Energy Conversion and Management*, **2020**, 203, 112225	10.6	31
352	Highly Selective Electrochemical Reduction of CO2 to CH4 over Vacancy□Metal□Nitrogen Sites in an Artificial Photosynthetic Cell. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 1679-1686	8.3	8
351	Effects of harvest month on biochemical composition of alligator weed for biohydrogen and biomethane cogeneration:Identifying critical variations in microbial communities. *International Journal of Hydrogen Energy*, **2020**, 45, 4161-4173	6.7	10
350	Three-Stage Shear-Serrated Aerator Broke CO2 Bubbles To Promote Mass Transfer and Microalgal Growth. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 939-947	8.3	9
349	Numerical simulation on optimizing flow field and flashing-light effect in jet-aerated tangential swirling-flow plate photobioreactor to improve microalgal growth. *Chemical Engineering Science*, **2020**, 215, 115371	4.4	8
348	Development of an efficient catalyst with controlled sulfur vacancies and high pyridine nitrogen content for the photoelectrochemical reduction of CO into methanol. *Science of the Total Environment*, **2020**, 702, 134981	10.2	8
347	Improving biohydrogen production through dark fermentation of steam-heated acid pretreated Alternanthera philoxeroides by mutant Enterobacter aerogenes ZJU1. *Science of the Total Environment*, **2020**, 716, 134695	10.2	18
346	Efficient hybrid solar-to-alcohol system via synergistic catalysis between well-defined Cu□4 sites and its sulfide (CuS). *Chemical Engineering Journal*, **2020**, 392, 123799	14.7	5
345	Improving biohydrogen and biomethane co-production via two-stage dark fermentation and anaerobic digestion of the pretreated seaweed Laminaria digitata. *Journal of Cleaner Production*, **2020**, 251, 119666	10.3	34
344	Nanoscale zero-valent iron improved lactic acid degradation to produce methane through anaerobic digestion. *Bioresource Technology*, **2020**, 317, 124013	11	16
343	Enhancing Photosynthetic Characterization and Biomass Productivity of Nannochloropsis Oceanica by Nuclear Radiation. *Frontiers in Energy Research*, **2020**, 8,	3.8	1
342	Improving CH production and energy conversion from CO and H feedstock gases with mixed methanogenic community over Fe nanoparticles. *Bioresource Technology*, **2020**, 314, 123799	11	4
341	Single Ni atoms with higher positive charges induced by hydroxyls for electrocatalytic CO reduction. *Nanoscale*, **2020**, 12, 18437-18445	7.7	12

340	Simulation of hetero/homogeneous combustion characteristics of CH4/air in a half packed-bed catalytic combustor. *Chemical Engineering Science*, **2020**, 211, 115247	4.4	8
339	Combustion of aluminum particles in a high-temperature furnace under various O2/CO2/H2O atmospheres. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 251-260	4.1	3
338	Dynamic process of hydrogen and heat generation from reaction of Al□i alloy powders and water vapor at moderate temperatures. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2019**, 41, 1372-1379	1.6	2
337	A novel jet-aerated tangential swirling-flow plate photobioreactor generates microbubbles that enhance mass transfer and improve microalgal growth. *Bioresource Technology*, **2019**, 288, 121531	11	18
336	Hydrothermal heating with sulphuric acid contributes to improved fermentative hydrogen and methane co-generation from Dianchi Lake algal bloom. *Energy Conversion and Management*, **2019**, 192, 282-291	10.6	13
335	Enhancing lipid production in microalgae Chlorella PY-ZU1 with phosphorus excess and nitrogen starvation under 15% CO2 in a continuous two-step cultivation process. *Chemical Engineering Journal*, **2019**, 375, 121912	14.7	36
334	Regulating crystal structures of EDA-carbamates in solid□quid phase-changing CO2 capture solutions. *Fuel*, **2019**, 252, 47-54	7.1	11
333	Solvent-free lipid extraction from microalgal biomass with subcritical water in a continuous flow reactor for acid-catalyzed biodiesel production. *Fuel*, **2019**, 253, 90-94	7.1	7
332	Solar driven reduction of CO using Pt-Cu/C as a catalyst in a photoelectrochemical cell: experiment and mechanism study.. *RSC Advances*, **2019**, 9, 10635-10644	3.7	3
331	Responses of Arthrospira ZJU9000 to high bicarbonate concentration (HCO3□171.2 mM): How do biomass productivity and lipid content simultaneously increase?. *Algal Research*, **2019**, 41, 101531	5	7
330	Transcriptome and key gene expression related to carbon metabolism and fatty acid synthesis of Chlorella vulgaris under a nitrogen starvation and phosphorus repletion regime. *Journal of Applied Phycology*, **2019**, 31, 2881-2893	3.2	5
329	Continuous hydroprocessing of microalgae biodiesel to jet fuel range hydrocarbons promoted by Ni/hierarchical mesoporous Y zeolite catalyst. *International Journal of Hydrogen Energy*, **2019**, 44, 11765-11773	6.7	28
328	Competitive conversion pathways of methyl palmitate to produce jet biofuel over Ni/desilicated meso-Y zeolite catalyst. *Fuel*, **2019**, 244, 472-478	7.1	16
327	Hydrodeoxygenation and hydrocracking of microalgae biodiesel to produce jet biofuel over H3PW12O40-Ni/hierarchical mesoporous zeolite Y catalyst. *Fuel*, **2019**, 245, 384-391	7.1	19
326	Improving fermentative hydrogen and methane production from an algal bloom through hydrothermal/steam acid pretreatment. *International Journal of Hydrogen Energy*, **2019**, 44, 5812-5820	6.7	34
325	Enhanced photoelectrochemical hydrogenation of green-house gas CO2 to high-order solar fuel on coordinatively unsaturated metal-N sites containing carbonized Zn/Co ZIFs. *International Journal of Hydrogen Energy*, **2019**, 44, 21597-21606	6.7	6
324	The catalytic effect of the Na and Ca-rich industrial wastes on the thermal ignition of coal combustion. *Chinese Journal of Chemical Engineering*, **2019**, 27, 2467-2471	3.2	8
323	Heterogeneous reaction characteristics and its effects on homogeneous combustion of methane/air mixture in microchannels II. Chemical analysis. *Fuel*, **2019**, 235, 923-932	7.1	9

322	Developing microporous fibrous-diaphragm aerator to decrease bubble generation diameter for improving microalgal growth with CO fixation in a raceway pond. *Bioresource Technology*, **2019**, 276, 28-34	11	13
321	Promoting Photochemical Efficiency of Chlorella PY-ZU1 with Enhanced Velocity Field and Turbulent Kinetics in a Novel Tangential Spiral-Flow Column Photobioreactor. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 384-393	8.3	15
320	Strengthening mass transfer of carbon dioxide microbubbles dissolver in a horizontal tubular photo-bioreactor for improving microalgae growth. *Bioresource Technology*, **2019**, 277, 11-17	11	16
319	Sulfonated mesoporous Y zeolite with nickel to catalyze hydrocracking of microalgae biodiesel into jet fuel range hydrocarbons. *International Journal of Hydrogen Energy*, **2019**, 44, 1650-1658	6.7	29
318	Selective reduction of CO2 to alcohol products on octahedral catalyst of carbonized Cu(BTC) doped with Pd nanoparticles in a photoelectrochemical cell. *Chemical Engineering Journal*, **2019**, 358, 860-868	14.7	31
317	Changes in the physicochemical characteristics and spontaneous combustion propensity of Ximeng lignite after hydrothermal dewatering. *Canadian Journal of Chemical Engineering*, **2018**, 96, 2387-2394	2.3	11
316	Generating cycle flow between dark and light zones with double paddlewheels to improve microalgal growth in a flat plate photo-bioreactor. *Bioresource Technology*, **2018**, 261, 151-157	11	11
315	Serial lantern-shaped draft tube enhanced flashing light effect for improving CO fixation with microalgae in a gas-lift circumflux column photobioreactor. *Bioresource Technology*, **2018**, 255, 156-162	11	20
314	Ignition delay kinetic model of boron particle based on bidirectional diffusion mechanism. *Aerospace Science and Technology*, **2018**, 73, 78-84	4.9	7
313	Improving the CO2 fixation rate by increasing flow rate of the flue gas from microalgae in a raceway pond. *Korean Journal of Chemical Engineering*, **2018**, 35, 498-502	2.8	11
312	CO2 absorption and diffusion in ionic liquid [P66614][Triz] modified molecular sieves SBA-15 with various pore lengths. *Fuel Processing Technology*, **2018**, 172, 216-224	7.2	24
311	Hydrogen production by the reaction of Al-based metals with water vapor. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2018**, 40, 9-14	1.6	4
310	Jet range hydrocarbons converted from microalgal biodiesel over mesoporous zeolite-based catalysts. *International Journal of Hydrogen Energy*, **2018**, 43, 9988-9993	6.7	14
309	Improving physicochemical properties of upgraded Indonesian lignite through microwave irradiation with char adsorbent. *Fuel*, **2018**, 218, 275-281	7.1	22
308	Enhancing slurryabilities of five lignites from Inner Mongolia of China by microwave irradiation. *Drying Technology*, **2018**, 36, 100-108	2.6	5
307	Alternatively permutated conic baffles generate vortex flow field to improve microalgal productivity in a raceway pond. *Bioresource Technology*, **2018**, 249, 212-218	11	27
306	Removing ethinylestradiol from wastewater by microalgae mutant Chlorella PY-ZU1 with CO fixation. *Bioresource Technology*, **2018**, 249, 284-289	11	24
305	Optimization of coating solution viscosity of hollow fiber-supported polydimethylsiloxane membrane for CO2/H2 separation. *Journal of Applied Polymer Science*, **2018**, 135, 45765	2.9	11

304	In-situ grafting to improve polarity of polyacrylonitrile hollow fiber-supported polydimethylsiloxane membranes for CO separation. *Journal of Colloid and Interface Science*, **2018**, 510, 12-19	9.3	16
303	Numerical simulation on promoting light/dark cycle frequency to improve microalgae growth in photobioreactor with serial lantern-shaped draft tube. *Bioresource Technology*, **2018**, 266, 89-96	11	13
302	Mechanical strength and combustion properties of biomass pellets prepared with coal tar residue as a binder. *Fuel Processing Technology*, **2018**, 179, 229-237	7.2	34
301	Heterogeneous reaction characteristics and their effects on homogeneous combustion of methane/air mixture in micro channels I. Thermal analysis. *Fuel*, **2018**, 234, 20-29	7.1	16
300	Enhancing growth-relevant metabolic pathways of (CYA-1) with gamma irradiation from Co.. *RSC Advances*, **2018**, 8, 16824-16833	3.7	6
299	Enhancing vorticity magnitude of turbulent flow to promote photochemical efficiency and trichome helix pitch of Arthrospira platensis in a raceway pond with conic baffles. *Bioresource Technology*, **2018**, 269, 1-8	11	12
298	Enhancing growth rate of lettuce by mutating lettuce seeds with nuclear irradiation. *Carbon Resources Conversion*, **2018**, 1, 55-60	4.7	1
297	Phase-changing solution PZ/DMF for efficient CO2 capture and low corrosiveness to carbon steel. *Fuel*, **2018**, 216, 418-426	7.1	27
296	Preparation of a Cu(BTC)-rGO catalyst loaded on a Pt deposited Cu foam cathode to reduce CO in a photoelectrochemical cell.. *RSC Advances*, **2018**, 8, 32296-32303	3.7	27
295	Reduced generation time and size of carbon dioxide bubbles in a volute aerator for improving Spirulina sp. growth. *Bioresource Technology*, **2018**, 270, 352-358	11	16
294	Improving microalgal growth by strengthening the flashing light effect simulated with computational fluid dynamics in a panel bioreactor with horizontal baffles.. *RSC Advances*, **2018**, 8, 18828-18836	3.7	6
293	Graphene Nanoplatelet and Reduced Graphene Oxide Functionalized by Ionic Liquid for CO2 Capture. *Energy & Fuels*, **2018**, 32, 6918-6925	4.1	8
292	Experimental study on superheated steam generation by the reaction of high humidity hydrogen and oxygen in a model internal combustion steam generator. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2018**, 40, 1153-1160	1.6	1
291	Kinetics of n-butanol oxidation over Pt/ZSM-5 catalyst. *Fuel Processing Technology*, **2018**, 179, 108-113	7.2	7
290	Generation and Evolution of Surface Oxide Layer of Amorphous Boron during Thermal Oxidation: A Micro/nanofabricated Slice Measurement. *Propellants, Explosives, Pyrotechnics*, **2017**, 42, 532-540	1.7	8
289	Composites of ionic liquid and amine-modified SAPO 34 improve CO2 separation of CO2-selective polymer membranes. *Applied Surface Science*, **2017**, 410, 249-258	6.7	38
288	Transcriptome-based analysis on carbon metabolism of Haematococcus pluvialis mutant under 15% CO. *Bioresource Technology*, **2017**, 233, 313-321	11	27
287	Mechanism underlying the effect of conventional drying on the grinding characteristics of Ximeng lignite. *Korean Journal of Chemical Engineering*, **2017**, 34, 1250-1259	2.8	6

286	Hydrogen production and temperature change during the reaction of Al□i alloy with water vapor. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2017**, 39, 1036-1042	1.6	6
285	Boosting biomethane yield and production rate with graphene: The potential of direct interspecies electron transfer in anaerobic digestion. *Bioresource Technology*, **2017**, 239, 345-352	11	188
284	Mutation of Spirulina sp. by nuclear irradiation to improve growth rate under 15% carbon dioxide in flue gas. *Bioresource Technology*, **2017**, 238, 650-656	11	37
283	In vivo kinetics of lipids and astaxanthin evolution in Haematococcus pluvialis mutant under 15% CO using Raman microspectroscopy. *Bioresource Technology*, **2017**, 244, 1439-1444	11	29
282	Three-stage gaseous biofuel production combining dark hydrogen, photo hydrogen, and methane fermentation using wet Arthrospira platensis cultivated under high CO 2 and sodium stress. *Energy Conversion and Management*, **2017**, 148, 394-404	10.6	35
281	Investigating hydrothermal pretreatment of food waste for two-stage fermentative hydrogen and methane co-production. *Bioresource Technology*, **2017**, 241, 491-499	11	108
280	Amino-functionalized surface modification of polyacrylonitrile hollow fiber-supported polydimethylsiloxane membranes. *Applied Surface Science*, **2017**, 413, 27-34	6.7	15
279	Improving CO2 permeation and separation performance of CO2-philic polymer membrane by blending CO2 absorbents. *Applied Surface Science*, **2017**, 410, 206-214	6.7	18
278	Pt/graphene aerogel deposited in Cu foam as a 3D binder-free cathode for CO 2 reduction into liquid chemicals in a TiO 2 photoanode-driven photoelectrochemical cell. *Chemical Engineering Journal*, **2017**, 322, 22-32	14.7	30
277	Transcriptome sequencing and metabolic pathways of astaxanthin accumulated in Haematococcus pluvialis mutant under 15% CO. *Bioresource Technology*, **2017**, 228, 99-105	11	34
276	Improving effect of boron carbide on the combustion and thermal oxidation characteristics of amorphous boron. *Journal of Thermal Analysis and Calorimetry*, **2017**, 128, 1771-1782	4.1	18
275	Microstructure and antioxidative capacity of the microalgae mutant Chlorella PY-ZU1 during tilmicosin removal from wastewater under 15% CO. *Journal of Hazardous Materials*, **2017**, 324, 414-419	12.8	37
274	Effect of particle size and oxygen content on ignition and combustion of aluminum particles. *Chinese Journal of Aeronautics*, **2017**, 30, 1835-1843	3.7	35
273	Transcriptome and key genes expression related to carbon fixation pathways in PY-ZU1 cells and their growth under high concentrations of CO. *Biotechnology for Biofuels*, **2017**, 10, 181	7.8	37
272	Ignition and combustion characteristics of amorphous boron and coated boron particles in oxygen jet. *Combustion and Flame*, **2017**, 185, 292-300	5.3	28
271	Experimental Study on Dynamic Combustion Characteristics of Aluminum Particles. *Propellants, Explosives, Pyrotechnics*, **2017**, 42, 982-992	1.7	6
270	Improving fermentative hydrogen production from water hyacinth with genetically modified bacteria. *Environmental Progress and Sustainable Energy*, **2017**, 36, 1296-1300	2.5	5
269	Characterization of CO2 Absorption and Carbamate Precipitate in Phase-Change N-Methyl-1,3-diaminopropane/N,N-Dimethylformamide Solvent. *Energy & Fuels*, **2017**, 31, 13972-13978	4.1	8

268	A novel power generation system based on the cascade utilization of coal: concept and preliminary experimental results. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2017**, 39, 1955-1962	1.6	2
267	Catalytic self-sustaining combustion of the alkanes with Pt/ZSM-5 packed bed in a microscale tube. *Chemical Engineering Science*, **2017**, 158, 30-36	4.4	17
266	Efficiency analysis of a novel electricity and heat co-generation system in the basis of aluminum–water reaction. *International Journal of Hydrogen Energy*, **2017**, 42, 3598-3604	6.7	15
265	Moisture removal mechanism of low-rank coal by hydrothermal dewatering: Physicochemical property analysis and DFT calculation. *Fuel*, **2017**, 187, 242-249	7.1	62
264	Thermodynamics analysis of carbothermal-chlorination reduction in aluminum production. *Applied Thermal Engineering*, **2017**, 111, 876-883	5.8	3
263	Comparison of the catalytic effects of eight industrial wastes rich in Na, Fe, Ca and Al on anthracite coal combustion. *Fuel*, **2017**, 187, 398-402	7.1	31
262	Enhanced mechanism of the photo-thermochemical cycle based on effective Fe-doping TiO2 films and DFT calculations. *Applied Catalysis B: Environmental*, **2017**, 204, 324-334	21.8	51
261	Ignition and combustion characteristics of molded amorphous boron under different oxygen pressures. *Acta Astronautica*, **2017**, 138, 118-128	2.9	8
260	Theoretical Investigation of Noncovalent Interactions between Low-Rank Coal and Water. *Energy & Fuels*, **2016**, 30, 7118-7124	4.1	24
259	Biodiesel production from wet microalgae by using graphene oxide as solid acid catalyst. *Bioresource Technology*, **2016**, 221, 344-349	11	73
258	Improving pollutants removal by microalgae Chlorella PY-ZU1 with 15% CO2 from undiluted anaerobic digestion effluent of food wastes with ozonation pretreatment. *Bioresource Technology*, **2016**, 216, 273-9	11	41
257	Effect of microwave irradiation on the propensity for spontaneous combustion of Inner Mongolia lignite. *Journal of Loss Prevention in the Process Industries*, **2016**, 44, 390-396	3.5	22
256	Conversion pathways of palm oil into jet biofuel catalyzed by mesoporous zeolites. *RSC Advances*, **2016**, 6, 103965-103972	3.7	10
255	Study on the slurrying and rheological properties of coal–oilfield wastewater–slurry. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2016**, 38, 3687-3693	1.6	6
254	Improving microalgal growth with small bubbles in a raceway pond with swing gas aerators. *Bioresource Technology*, **2016**, 216, 267-72	11	10
253	Improvement in energy release properties of boron-based propellant by oxidant coating. *Thermochimica Acta*, **2016**, 638, 58-68	2.9	19
252	Gradient domestication of Haematococcus pluvialis mutant with 15% CO2 to promote biomass growth and astaxanthin yield. *Bioresource Technology*, **2016**, 216, 340-4	11	32
251	Cascade chain catalysis of coal combustion by Na–Fe–Ca composite promoters from industrial wastes. *Fuel*, **2016**, 181, 820-826	7.1	33

250	Kinetics of dimethyl ether oxidation over Pt/ZSM-5 catalyst. *Catalysis Communications*, **2016**, 84, 48-51	3.2	6
249	Optimization of microwave dewatering of an Indonesian lignite. *Fuel Processing Technology*, **2016**, 144, 71-78	7.2	25
248	Improving CO2 fixation with microalgae by bubble breakage in raceway ponds with up-down chute baffles. *Bioresource Technology*, **2016**, 201, 174-81	11	26
247	Splitting of CO2 via the Heterogeneous Oxidation of Zinc Powder in Thermochemical Cycles. *Industrial & Engineering Chemistry Research*, **2016**, 55, 534-542	3.9	4
246	Activated carbon and graphite facilitate the upgrading of Indonesian lignite with microwave irradiation for slurryability improvement. *Fuel*, **2016**, 170, 39-48	7.1	38
245	Influence of calcination temperature on CuO□eO 2 /SiC catalysts□for SO 3 decomposition in the sulfur□odine cycle for hydrogen production. *International Journal of Hydrogen Energy*, **2016**, 41, 3339-3348	6.7	11
244	A novel photo-thermochemical cycle of water-splitting for hydrogen production based on TiO2□/TiO2. *International Journal of Hydrogen Energy*, **2016**, 41, 2215-2221	6.7	23
243	Effects of cytoplasm and reactant polarities on acid-catalyzed lipid transesterification in wet microalgal cells subjected to microwave irradiation. *Bioresource Technology*, **2016**, 200, 738-43	11	3
242	Improving microalgal growth with reduced diameters of aeration bubbles and enhanced mass transfer of solution in an oscillating flow field. *Bioresource Technology*, **2016**, 211, 429-34	11	23
241	Enhanced dark hydrogen fermentation by addition of ferric oxide nanoparticles using Enterobacter aerogenes. *Bioresource Technology*, **2016**, 207, 213-9	11	109
240	Ignition temperature and activation energy of power coal blends predicted with back-propagation neural network models. *Fuel*, **2016**, 173, 230-238	7.1	32
239	Combustion Characteristics and Propulsive Performance of Boron/Ammonium Perchlorate Mixtures in Microtubes. *Journal of Energetic Materials*, **2016**, 34, 297-317	1.6	16
238	Maximum burning rate and fixed carbon burnout efficiency of power coal blends predicted with back-propagation neural network models. *Fuel*, **2016**, 172, 170-177	7.1	17
237	Simplification of the zinc-sulfur-iodine thermochemical cycle for the production of H2 and CO. *International Journal of Hydrogen Energy*, **2016**, 41, 94-103	6.7	4
236	CO2 Adsorption Performance of Ionic Liquid [P66614][2-Op] Loaded onto Molecular Sieve MCM-41 Compared to Pure Ionic Liquid in Biohythane/Pure CO2 Atmospheres. *Energy & Fuels*, **2016**, 30, 3251-3256	4.1	26
235	Enhancing the growth rate and astaxanthin yield of Haematococcus pluvialis by nuclear irradiation and high concentration of carbon dioxide stress. *Bioresource Technology*, **2016**, 204, 49-54	11	69
234	Enhancing growth rate and lipid yield of Chlorella with nuclear irradiation under high salt and CO2 stress. *Bioresource Technology*, **2016**, 203, 220-7	11	58
233	Improving CO2 permeability of ceramic hollow fibre-supported composite membranes by blending an ionic liquid in the Pebax/PEGDME selective layer. *RSC Advances*, **2016**, 6, 2055-2064	3.7	16

232	Thermogravimetric analysis of hydrogen production of Al–Mg–Li particles and water. *International Journal of Hydrogen Energy*, **2016**, 41, 7927-7934	6.7	9
231	Mesoscale combustion of ethanol and dimethyl ether over Pt/ZSM-5: Differences in combustion characteristics and catalyst deactivation. *Fuel*, **2016**, 165, 1-9	7.1	8
230	Study on CuO–CeO2/SiC catalysts in the sulfur–iodine cycle for hydrogen production. *International Journal of Energy Research*, **2016**, 40, 1062-1072	4.5	6
229	Enhancing hydrogen production of Enterobacter aerogenes by heterologous expression of hydrogenase genes originated from Synechocystis sp. *Bioresource Technology*, **2016**, 216, 976-80	11	12
228	Gasification property of coal–oilfield wastewater slurry and microscopic mechanism analysis. *Petroleum Science and Technology*, **2016**, 34, 1068-1074	1.4	10
227	Effect of microwave irradiation on the grinding characteristics of Ximeng lignite. *Fuel Processing Technology*, **2016**, 147, 2-11	7.2	16
226	Enhanced solution velocity between dark and light areas with horizontal tubes and triangular prism baffles to improve microalgal growth in a flat-panel photo-bioreactor. *Bioresource Technology*, **2016**, 211, 519-26	11	23
225	Enhanced energy recovery from cassava ethanol wastewater through sequential dark hydrogen, photo hydrogen and methane fermentation combined with ammonium removal. *Bioresource Technology*, **2016**, 214, 686-691	11	31
224	Pore fractal structures and combustion dynamics of cokes derived from the pyrolysis of typical Chinese power coals. *Fuel Processing Technology*, **2016**, 149, 49-54	7.2	22
223	Effect of raw material sources on activated carbon catalytic activity for HI decomposition in the sulfur-iodine thermochemical cycle for hydrogen production. *International Journal of Hydrogen Energy*, **2016**, 41, 7854-7860	6.7	16
222	Removal of oxygen functional groups in lignite by hydrothermal dewatering: An experimental and DFT study. *Fuel*, **2016**, 178, 85-92	7.1	58
221	Physicochemical characterization of typical municipal solid wastes for fermentative hydrogen and methane co-production. *Energy Conversion and Management*, **2016**, 117, 297-304	10.6	42
220	Experiments on n -heptane combustion with two types of catalyst layouts. *Applied Thermal Engineering*, **2016**, 100, 325-332	5.8	10
219	Optimizing gas transfer to improve growth rate of Haematococcus pluvialis in a raceway pond with chute and oscillating baffles. *Bioresource Technology*, **2016**, 214, 276-283	11	6
218	The properties of Chinese typical brown coal water slurries. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2016**, 38, 1176-1182	1.6	6
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