Junhu Zhou

List of Publications by Citations

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	Simultaneous removal of NOx, SO2 and Hg in nitrogen flow in a narrow reactor by ozone injection: Experimental results. *Fuel Processing Technology*, **2007**, 88, 817-823	7.2	228
374	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
373	Effects of microwave irradiation treatment on physicochemical characteristics of Chinese low-rank coals. *Energy Conversion and Management*, **2013**, 71, 84-91	10.6	167
372	Sulfur removal at high temperature during coal combustion in furnaces: a review. *Progress in Energy and Combustion Science*, **2003**, 29, 381-405	33.6	158
371	Improving hydrogen production from cassava starch by combination of dark and photo fermentation. *International Journal of Hydrogen Energy*, **2009**, 34, 1780-1786	6.7	138
370	Combination of dark- and photo-fermentation to enhance hydrogen production and energy conversion efficiency. *International Journal of Hydrogen Energy*, **2009**, 34, 8846-8853	6.7	130
369	Mutate Chlorella sp. by nuclear irradiation to fix high concentrations of CO2. *Bioresource Technology*, **2013**, 136, 496-501	11	124
368	Photoelectrocatalytic reduction of CO2 into chemicals using Pt-modified reduced graphene oxide combined with Pt-modified TiO2 nanotubes. *Environmental Science & Technology*, **2014**, 48, 7076-84	10.3	117
367	Effect of hydrothermal dewatering on the slurryability of brown coals. *Energy Conversion and Management*, **2012**, 57, 8-12	10.6	115
366	Enhanced dark hydrogen fermentation by addition of ferric oxide nanoparticles using Enterobacter aerogenes. *Bioresource Technology*, **2016**, 207, 213-9	11	109
365	Investigating hydrothermal pretreatment of food waste for two-stage fermentative hydrogen and methane co-production. *Bioresource Technology*, **2017**, 241, 491-499	11	108
364	Microwave-assisted alkali pretreatment of rice straw to promote enzymatic hydrolysis and hydrogen production in dark- and photo-fermentation. *International Journal of Hydrogen Energy*, **2011**, 36, 2093-2101	6.7	108
363	Improving CO2 fixation efficiency by optimizing Chlorella PY-ZU1 culture conditions in sequential bioreactors. *Bioresource Technology*, **2013**, 144, 321-7	11	106
362	Up-to-date life cycle assessment and comparison study of clean coal power generation technologies in China. *Journal of Cleaner Production*, **2013**, 39, 24-31	10.3	104
361	Growth optimisation of microalga mutant at high CO2 concentration to purify undiluted anaerobic digestion effluent of swine manure. *Bioresource Technology*, **2015**, 177, 240-6	11	88
360	Hydrogen production by mixed bacteria through dark and photo fermentation. *International Journal of Hydrogen Energy*, **2011**, 36, 450-457	6.7	88
359	Fermentative hydrogen production using algal biomass as feedstock. *Renewable and Sustainable Energy Reviews*, **2015**, 51, 209-230	16.2	86

358	Cogeneration of H2 and CH4 from water hyacinth by two-step anaerobic fermentation. *International Journal of Hydrogen Energy*, **2010**, 35, 3029-3035	6.7	84
357	Using wet microalgae for direct biodiesel production via microwave irradiation. *Bioresource Technology*, **2013**, 131, 531-5	11	83
356	Biodiesel production from lipids in wet microalgae with microwave irradiation and bio-crude production from algal residue through hydrothermal liquefaction. *Bioresource Technology*, **2014**, 151, 415-8	11	81
355	Biodiesel from wet microalgae: extraction with hexane after the microwave-assisted transesterification of lipids. *Bioresource Technology*, **2014**, 170, 69-75	11	80
354	Characterisation of water hyacinth with microwave-heated alkali pretreatment for enhanced enzymatic digestibility and hydrogen/methane fermentation. *Bioresource Technology*, **2015**, 182, 1-7	11	80
353	Conversion of waste cooking oil to jet biofuel with nickel-based mesoporous zeolite Y catalyst. *Bioresource Technology*, **2015**, 197, 289-94	11	78
352	Combination of dark- and photo-fermentation to improve hydrogen production from Arthrospira platensis wet biomass with ammonium removal by zeolite. *International Journal of Hydrogen Energy* , **2012**, 37, 13330-13337	6.7	77
351	Production of hydrogen and methane from potatoes by two-phase anaerobic fermentation. *Bioresource Technology*, **2008**, 99, 5942-6	11	77
350	Enhancement of energy production efficiency from mixed biomass of Chlorella pyrenoidosa and cassava starch through combined hydrogen fermentation and methanogenesis. *Applied Energy*, **2014**, 120, 23-30	10.7	76
349	Hydrogen production from water hyacinth through dark- and photo- fermentation. *International Journal of Hydrogen Energy*, **2010**, 35, 8929-8937	6.7	76
348	Biodiesel production from wet microalgae by using graphene oxide as solid acid catalyst. *Bioresource Technology*, **2016**, 221, 344-349	11	73
347	Comparison in dark hydrogen fermentation followed by photo hydrogen fermentation and methanogenesis between protein and carbohydrate compositions in Nannochloropsis oceanica biomass. *Bioresource Technology*, **2013**, 138, 204-13	11	73
346	Influence of the hydrothermal dewatering on the combustion characteristics of Chinese low-rank coals. *Applied Thermal Engineering*, **2015**, 90, 174-181	5.8	72
345	Experimental study of acoustic agglomeration of coal-fired fly ash particles at low frequencies. *Powder Technology*, **2009**, 193, 20-25	5.2	70
344	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
343	Improvement of Coal Water Slurry Property through Coal Physicochemical Modifications by Microwave Irradiation and Thermal Heat. *Energy & Fuels*, **2008**, 22, 2422-2428	4.1	69
342	Fermentative biohydrogen and biomethane co-production from mixture of food waste and sewage sludge: Effects of physiochemical properties and mix ratios on fermentation performance. *Applied Energy*, **2016**, 184, 1-8	10.7	69
341	Inhibitory effects of furan derivatives and phenolic compounds on dark hydrogen fermentation. *Bioresource Technology*, **2015**, 196, 250-5	11	68

340	Physicochemical Characterizations and Desulfurization Properties in Coal Combustion of Three Calcium and Sodium Industrial Wastes. *Energy & Fuels*, **2009**, 23, 2506-2516	4.1	68
339	Effects of pore fractal structures of ultrafine coal water slurries on rheological behaviors and combustion dynamics. *Fuel*, **2008**, 87, 2620-2627	7.1	67
338	Thermodynamic equilibrium analysis of hydrogen production by coal based on Coal/CaO/H2O gasification system. *International Journal of Hydrogen Energy*, **2006**, 31, 945-952	6.7	66
337	Dynamic microstructures and fractal characterization of cell wall disruption for microwave irradiation-assisted lipid extraction from wet microalgae. *Bioresource Technology*, **2013**, 150, 67-72	11	65
336	The slurrying properties of slurry fuels made of petroleum coke and petrochemical sludge. *Fuel Processing Technology*, **2012**, 104, 57-66	7.2	65
335	Moisture removal mechanism of low-rank coal by hydrothermal dewatering: Physicochemical property analysis and DFT calculation. *Fuel*, **2017**, 187, 242-249	7.1	62
334	Improving growth rate of microalgae in a 1191m(2) raceway pond to fix CO2 from flue gas in a coal-fired power plant. *Bioresource Technology*, **2015**, 190, 235-41	11	60
333	Cogeneration of hydrogen and methane from glucose to improve energy conversion efficiency. *International Journal of Hydrogen Energy*, **2008**, 33, 5006-5011	6.7	60
332	Chemical and structural changes in XiMeng lignite and its carbon migration during hydrothermal dewatering. *Fuel*, **2015**, 148, 139-144	7.1	59
331	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
330	Combustion of hydrogen–air in catalytic micro-combustors made of different material. *International Journal of Hydrogen Energy*, **2009**, 34, 3535-3545	6.7	58
329	Removal of oxygen functional groups in lignite by hydrothermal dewatering: An experimental and DFT study. *Fuel*, **2016**, 178, 85-92	7.1	58
328	Improvement of the energy conversion efficiency of Chlorella pyrenoidosa biomass by a three-stage process comprising dark fermentation, photofermentation, and methanogenesis. *Bioresource Technology*, **2013**, 146, 436-443	11	56
327	Investigation of laminar flame speeds of typical syngas using laser based Bunsen method and kinetic simulation. *Fuel*, **2012**, 95, 206-213	7.1	56
326	Frequency comparative study of coal-fired fly ash acoustic agglomeration. *Journal of Environmental Sciences*, **2011**, 23, 1845-51	6.4	54
325	A Cu foam cathode used as a Pt–RGO catalyst matrix to improve CO2 reduction in a photoelectrocatalytic cell with a TiO2 photoanode. *Journal of Materials Chemistry A*, **2015**, 3, 12947-12957	13	53
324	Experimental and modeling study of pyrolysis of coal, biomass and blended coal–biomass particles. *Fuel*, **2015**, 139, 356-364	7.1	53
323	Effect of Additive Agents on the Simultaneous Absorption of NO2 and SO2 in the Calcium Sulfite Slurry. *Energy & Fuels*, **2012**, 26, 5583-5589	4.1	53

322	Enhancing enzymatic saccharification of water hyacinth through microwave heating with dilute acid pretreatment for biomass energy utilization. *Energy*, **2013**, 61, 158-166	7.9	51
321	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
320	The Slurrying Properties of Coal Water Slurries Containing Raw Sewage Sludge. *Energy & Fuels*, **2011**, 25, 747-752	4.1	51
319	Investigation on elemental mercury oxidation mechanism by non-thermal plasma treatment. *Fuel Processing Technology*, **2010**, 91, 1395-1400	7.2	51
318	Promotion of H2 production by microwave-assisted treatment of water hyacinth with dilute H2SO4 through combined dark fermentation and photofermentation. *Energy Conversion and Management*, **2013**, 73, 329-334	10.6	50
317	Optimizing catalysis conditions to decrease aromatic hydrocarbons and increase alkanes for improving jet biofuel quality. *Bioresource Technology*, **2014**, 158, 378-82	11	50
316	Direct Numerical Simulation of Ozone Injection Technology for NOxControl in Flue Gas. *Energy & Fuels*, **2006**, 20, 2432-2438	4.1	50
315	Substrate consumption and hydrogen production via co-fermentation of monomers derived from carbohydrates and proteins in biomass wastes. *Applied Energy*, **2015**, 139, 9-16	10.7	49
314	Combustion of hydrogen-air in micro combustors with catalytic Pt layer. *Energy Conversion and Management*, **2010**, 51, 1127-1133	10.6	48
313	Subcritical water hydrolysis of rice straw for reducing sugar production with focus on degradation by-products and kinetic analysis. *Bioresource Technology*, **2015**, 186, 8-14	11	47
312	Hydrogen production using amino acids obtained by protein degradation in waste biomass by combined dark- and photo-fermentation. *Bioresource Technology*, **2015**, 179, 13-19	11	46
311	Cogeneration of hydrogen and methane from Arthrospira maxima biomass with bacteria domestication and enzymatic hydrolysis. *International Journal of Hydrogen Energy*, **2011**, 36, 1474-1481	6.7	46
310	Effect of preparation method on platinum□ceria catalysts for hydrogen iodide decomposition in sulfur□iodine cycle. *International Journal of Hydrogen Energy*, **2008**, 33, 602-607	6.7	45
309	Oxy-fuel combustion characteristics and kinetic parameters of lignite coal from thermo-gravimetric data. *Thermochimica Acta*, **2013**, 553, 54-59	2.9	44
308	Cogeneration of hydrogen and methane from the pretreated biomass of algae bloom in Taihu Lake. *International Journal of Hydrogen Energy*, **2014**, 39, 18793-18802	6.7	43
307	Comparison between heterofermentation and autofermentation in hydrogen production from Arthrospira (Spirulina) platensis wet biomass. *International Journal of Hydrogen Energy*, **2012**, 37, 6536-6544	6.7	43
306	Improving the permittivity of Indonesian lignite with NaCl for the microwave dewatering enhancement of lignite with reduced fractal dimensions. *Fuel*, **2015**, 162, 8-15	7.1	42
305	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

304	Sulfur Transformation during Hydrothermal Dewatering of Low Rank Coal. *Energy & Fuels*, **2015**, 29, 6586-6592	4.1	41
303	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
302	Enhancement of fermentative hydrogen production from hydrolyzed water hyacinth with activated carbon detoxification and bacteria domestication. *International Journal of Hydrogen Energy*, **2015**, 40, 2545-2551	6.7	41
301	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
300	Effects of CO content on laminar burning velocity of typical syngas by heat flux method and kinetic modeling. *International Journal of Hydrogen Energy*, **2014**, 39, 9534-9544	6.7	40
299	Fermentative hydrogen and methane cogeneration from cassava residues: effect of pretreatment on structural characterization and fermentation performance. *Bioresource Technology*, **2015**, 179, 407-413	11	40
298	Microstructures and functional groups of Nannochloropsis sp. cells with arsenic adsorption and lipid accumulation. *Bioresource Technology*, **2015**, 194, 305-11	11	39
297	Enhanced flashing light effect with up-down chute baffles to improve microalgal growth in a raceway pond. *Bioresource Technology*, **2015**, 190, 29-35	11	39
296	Experimental study on the effect of low melting point metal additives on hydrogen production in the aluminum□water reaction. *Energy*, **2015**, 88, 537-543	7.9	39
295	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
294	Using renewable ethanol and isopropanol for lipid transesterification in wet microalgae cells to produce biodiesel with low crystallization temperature. *Energy Conversion and Management*, **2015**, 105, 791-797	10.6	38
293	Activated carbon and graphite facilitate the upgrading of Indonesian lignite with microwave irradiation for slurryability improvement. *Fuel*, **2016**, 170, 39-48	7.1	38
292	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
291	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
290	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
289	Hydrocracking of palm oil to jet biofuel over different zeolites. *International Journal of Hydrogen Energy*, **2016**, 41, 21883-21887	6.7	37
288	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
287	Optimizing CO2 reduction conditions to increase carbon atom conversion using a Pt-RGO||Pt-TNT photoelectrochemical cell. *Solar Energy Materials and Solar Cells*, **2015**, 132, 606-614	6.4	36

286	Experimental and numerical investigations of hydrogen□air premixed combustion in a converging□diverging micro tube. *International Journal of Hydrogen Energy*, **2014**, 39, 3469-3476	6.7	36
285	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
284	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
283	CO2 Synergistic Reduction in a Photoanode-Driven Photoelectrochemical Cell with a Pt-Modified TiO2 Nanotube Photoanode and a Pt Reduced Graphene Oxide Electrocathode. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 6344-6354	8.3	35
282	Transcriptome sequencing and metabolic pathways of astaxanthin accumulated in Haematococcus pluvialis mutant under 15% CO. *Bioresource Technology*, **2017**, 228, 99-105	11	34
281	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
280	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
279	Orthogonal design process optimization and single factor analysis for bimodal acoustic agglomeration. *Powder Technology*, **2011**, 210, 315-322	5.2	34
278	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
277	Cascade chain catalysis of coal combustion by Na□Fe□Ca composite promoters from industrial wastes. *Fuel*, **2016**, 181, 820-826	7.1	33
276	Metal Oxides as Catalysts for Boron Oxidation. *Journal of Propulsion and Power*, **2014**, 30, 47-53	1.8	33
275	Decomposition of hydrogen iodide via wood-based activated carbon catalysts for hydrogen production. *International Journal of Hydrogen Energy*, **2011**, 36, 216-223	6.7	33
274	Cogeneration of hydrogen and methane from protein-mixed food waste by two-phase anaerobic process. *International Journal of Hydrogen Energy*, **2010**, 35, 3141-3146	6.7	33
273	A novel photo-thermochemical cycle for the dissociation of CO2 using solar energy. *Applied Energy*, **2015**, 156, 223-229	10.7	32
272	Gradient domestication of Haematococcus pluvialis mutant with 15% CO2 to promote biomass growth and astaxanthin yield. *Bioresource Technology*, **2016**, 216, 340-4	11	32
271	Ignition temperature and activation energy of power coal blends predicted with back-propagation neural network models. *Fuel*, **2016**, 173, 230-238	7.1	32
270	Improving the slurrying ability of XiMeng brown coal by medium- to low-temperature thermal treatment. *Fuel Processing Technology*, **2014**, 119, 218-227	7.2	32
269	Numerical simulation of acoustic wake effect in acoustic agglomeration under Oseen flow condition. *Science Bulletin*, **2012**, 57, 2404-2412		32

268	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
267	Direct Numerical Simulation of Subsonic Round Turbulent Jet. *Flow, Turbulence and Combustion*, **2010**, 84, 669-686	2.5	31
266	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
265	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
264	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
263	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
262	Effect of pyrolysis temperature on lignite char properties and slurrying ability. *Fuel Processing Technology*, **2015**, 134, 52-58	7.2	30
261	Study of ozone-enhanced combustion in H2/CO/N2/air premixed flames by laminar burning velocity measurements and kinetic modeling. *International Journal of Hydrogen Energy*, **2013**, 38, 1177-1188	6.7	30
260	Sequential generation of hydrogen and methane from glutamic acid through combined photo-fermentation and methanogenesis. *Bioresource Technology*, **2013**, 131, 146-51	11	30
259	Ceria as a catalyst for hydrogen iodide decomposition in sulfur–iodine cycle for hydrogen production. *International Journal of Hydrogen Energy*, **2009**, 34, 1688-1695	6.7	30
258	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
257	Catalytic combustion of methane, methanol, and ethanol in microscale combustors with Pt/ZSM-5 packed beds. *Fuel*, **2015**, 150, 339-346	7.1	29
256	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
255	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
254	Ignition and combustion characteristics of amorphous boron and coated boron particles in oxygen jet. *Combustion and Flame*, **2017**, 185, 292-300	5.3	28
253	Optimization of liquid–liquid phase separation characteristics in the Bunsen section of the sulfur–iodine hydrogen production process. *International Journal of Hydrogen Energy*, **2012**, 37, 6407-6414	6.7	28
252	Instability of flame in micro-combustor under different external thermal environment. *Experimental Thermal and Fluid Science*, **2011**, 35, 1451-1457	3	28
251	Decrease in light/dark cycle of microalgal cells with computational fluid dynamics simulation to improve microalgal growth in a raceway pond. *Bioresource Technology*, **2016**, 220, 352-359	11	28

250	Transcriptome-based analysis on carbon metabolism of Haematococcus pluvialis mutant under 15% CO. *Bioresource Technology*, **2017**, 233, 313-321	11	27
249	Alternatively permutated conic baffles generate vortex flow field to improve microalgal productivity in a raceway pond. *Bioresource Technology*, **2018**, 249, 212-218	11	27
248	Catalytic decomposition of hydrogen iodide over pre-treated Ni/CeO2 catalysts for hydrogen production in the sulfur–iodine cycle. *International Journal of Hydrogen Energy*, **2009**, 34, 8792-8798	6.7	27
247	Influence of the oxidative/reductive treatments on Pt/CeO2 catalyst for hydrogen iodide decomposition in sulfur–iodine cycle. *International Journal of Hydrogen Energy*, **2008**, 33, 2211-2217	6.7	27
246	Hydrogen iodide decomposition over nickel–ceria catalysts for hydrogen production in the sulfur–iodine cycle. *International Journal of Hydrogen Energy*, **2008**, 33, 5477-5483	6.7	27
245	Phase-changing solution PZ/DMF for efficient CO2 capture and low corrosiveness to carbon steel. *Fuel*, **2018**, 216, 418-426	7.1	27
244	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
243	Experimental researches on hydrogen generation by aluminum with adding lithium at high temperature. *Energy*, **2015**, 93, 451-457	7.9	26
242	Improving CO2 fixation with microalgae by bubble breakage in raceway ponds with up-down chute baffles. *Bioresource Technology*, **2016**, 201, 174-81	11	26
241	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
240	Effect of Initial Oxide Layer on Ignition and Combustion of Boron Powder. *Propellants, Explosives, Pyrotechnics*, **2014**, 39, 185-191	1.7	26
239	Effects of changes in microbial community on the fermentative production of hydrogen and soluble metabolites from Chlorella pyrenoidosa biomass in semi-continuous operation. *Energy*, **2014**, 68, 982-988	7.9	26
238	Improvement of the Coal Ash Slagging Tendency by Coal Washing and Additive Blending with Mullite Generation. *Energy & Fuels*, **2013**, 27, 2049-2056	4.1	26
237	Surface Coating Improves Coal–Water Slurry Formation of Shangwan Coal. *Energy & Fuels*, **2011**, 25, 3590-3597	4.1	26
236	Platinum–ceria–zirconia catalysts for hydrogen production in sulfur-iodine cycle. *International Journal of Hydrogen Energy*, **2010**, 35, 445-451	6.7	26
235	A Novel Non-Linear Programming-Based Coal Blending Technology for Power Plants. *Chemical Engineering Research and Design*, **2000**, 78, 118-124	5.5	26
234	Upgrading Chinese Shengli lignite by microwave irradiation for slurribility improvement. *Fuel*, **2015**, 159, 909-916	7.1	25
233	Optimization of microwave dewatering of an Indonesian lignite. *Fuel Processing Technology*, **2016**, 144, 71-78	7.2	25

232	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
231	Removing ethinylestradiol from wastewater by microalgae mutant Chlorella PY-ZU1 with CO fixation. *Bioresource Technology*, **2018**, 249, 284-289	11	24
230	Theoretical Investigation of Noncovalent Interactions between Low-Rank Coal and Water. *Energy & Fuels*, **2016**, 30, 7118-7124	4.1	24
229	Electrochemical investigation of the Bunsen reaction in the sulfur–iodine cycle. *International Journal of Hydrogen Energy*, **2013**, 38, 14391-14401	6.7	24
228	Enhancing the lipid content of the diatom Nitzschia sp. by 60 Co-γ irradiation mutation and high-salinity domestication. *Energy*, **2014**, 78, 9-15	7.9	24
227	A novel thermochemical cycle for the dissociation of CO2 and H2O using sustainable energy sources. *Applied Energy*, **2013**, 108, 1-7	10.7	24
226	Improvement of hydrogen production by over-expression of a hydrogen-promoting protein gene in Enterobacter cloacae. *International Journal of Hydrogen Energy*, **2011**, 36, 6609-6615	6.7	24
225	Catalytic Thermal Decomposition of Hydrogen Iodide in Sulfur–Iodine Cycle for Hydrogen Production. *Energy & Fuels*, **2008**, 22, 1227-1232	4.1	24
224	Energy release properties of amorphous boron and boron-based propellant primary combustion products. *Acta Astronautica*, **2015**, 112, 182-191	2.9	23
223	A novel photo-thermochemical cycle of water-splitting for hydrogen production based on TiO2−x/TiO2. *International Journal of Hydrogen Energy*, **2016**, 41, 2215-2221	6.7	23
222	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
221	Detailed kinetic modeling of homogeneous H2SO4 decomposition in the sulfur–iodine cycle for hydrogen production. *Applied Energy*, **2014**, 130, 396-402	10.7	23
220	Fractal microstructure characterization of wet microalgal cells disrupted with ultrasonic cavitation for lipid extraction. *Bioresource Technology*, **2014**, 170, 138-143	11	23
219	An investigation on the rheological and sulfur-retention characteristics of desulfurizing coal water slurry with calcium-based additives. *Fuel Processing Technology*, **2009**, 90, 91-98	7.2	23
218	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
217	Improving physicochemical properties of upgraded Indonesian lignite through microwave irradiation with char adsorbent. *Fuel*, **2018**, 218, 275-281	7.1	22
216	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
215	Ultrasonic sludge disintegration for improving the co-slurrying properties of municipal waste sludge and coal. *Fuel Processing Technology*, **2014**, 125, 94-105	7.2	22

214	Sequential generation of hydrogen and methane from xylose by two-stage anaerobic fermentation. *International Journal of Hydrogen Energy*, **2012**, 37, 13323-13329	6.7	22
213	Thermogravimetric analysis of the hydrolysis of zinc particles. *International Journal of Hydrogen Energy*, **2010**, 35, 2617-2621	6.7	22
212	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
211	Physicochemical characterization of wet microalgal cells disrupted with instant catapult steam explosion for lipid extraction. *Bioresource Technology*, **2015**, 191, 66-72	11	21
210	Effects of the physical and chemical properties of petroleum coke on its slurryability. *Petroleum Science*, **2012**, 9, 251-256	4.4	21
209	Improvement of micro-combustion stability through electrical heating. *Applied Thermal Engineering* , **2009**, 29, 2373-2378	5.8	21
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