

Kefa Cen

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

346
papers

6,968
citations

42
h-index

67
g-index

372
ext. papers

8,332
ext. citations

5.4
avg, IF

6.19
L-index

#	Paper	IF	Citations
346	Green preparation of reduced graphene oxide for sensing and energy storage applications. <i>Scientific Reports</i> , 2014 , 4, 4684	4.9	322
345	Plasma-enhanced chemical vapor deposition synthesis of vertically oriented graphene nanosheets. <i>Nanoscale</i> , 2013 , 5, 5180-204	7.7	284
344	Emerging energy and environmental applications of vertically-oriented graphenes. <i>Chemical Society Reviews</i> , 2015 , 44, 2108-21	58.5	220
343	Boosting biomethane yield and production rate with graphene: The potential of direct interspecies electron transfer in anaerobic digestion. <i>Bioresource Technology</i> , 2017 , 239, 345-352	11	188
342	Temporal-spatial changes in viabilities and electrochemical properties of anode biofilms. <i>Environmental Science & Technology</i> , 2015 , 49, 5227-35	10.3	130
341	Mercury Oxidation over a Vanadia-based Selective Catalytic Reduction Catalyst. <i>Energy & Fuels</i> , 2009 , 23, 253-259	4.1	124
340	Effects of torrefaction on hemicellulose structural characteristics and pyrolysis behaviors. <i>Bioresource Technology</i> , 2016 , 218, 1106-14	11	111
339	Enhanced dark hydrogen fermentation by addition of ferric oxide nanoparticles using <i>Enterobacter aerogenes</i> . <i>Bioresource Technology</i> , 2016 , 207, 213-9	11	109
338	Investigating hydrothermal pretreatment of food waste for two-stage fermentative hydrogen and methane co-production. <i>Bioresource Technology</i> , 2017 , 241, 491-499	11	108
337	Non-Thermal Plasmas for VOCs Abatement. <i>Plasma Chemistry and Plasma Processing</i> , 2014 , 34, 1033-1065	5.6	102
336	Growth optimisation of microalga mutant at high CO ₂ concentration to purify undiluted anaerobic digestion effluent of swine manure. <i>Bioresource Technology</i> , 2015 , 177, 240-6	11	88
335	Effects of PbCl ₂ on selective catalytic reduction of NO with NH ₃ over vanadia-based catalysts. <i>Journal of Hazardous Materials</i> , 2014 , 274, 270-8	12.8	84
334	Biodiesel from wet microalgae: extraction with hexane after the microwave-assisted transesterification of lipids. <i>Bioresource Technology</i> , 2014 , 170, 69-75	11	80
333	Characterisation of water hyacinth with microwave-heated alkali pretreatment for enhanced enzymatic digestibility and hydrogen/methane fermentation. <i>Bioresource Technology</i> , 2015 , 182, 1-7	11	80
332	Conversion of waste cooking oil to jet biofuel with nickel-based mesoporous zeolite Y catalyst. <i>Bioresource Technology</i> , 2015 , 197, 289-94	11	78
331	Biodiesel production from wet microalgae by using graphene oxide as solid acid catalyst. <i>Bioresource Technology</i> , 2016 , 221, 344-349	11	73
330	Enhancing the growth rate and astaxanthin yield of <i>Haematococcus pluvialis</i> by nuclear irradiation and high concentration of carbon dioxide stress. <i>Bioresource Technology</i> , 2016 , 204, 49-54	11	69

329	Inhibitory effects of furan derivatives and phenolic compounds on dark hydrogen fermentation. <i>Bioresource Technology</i> , 2015 , 196, 250-5	11	68
328	Mechanism study on cellulose pyrolysis using thermogravimetric analysis coupled with infrared spectroscopy. <i>Frontiers of Energy and Power Engineering in China</i> , 2007 , 1, 413-419		68
327	Multifunctional Solar Waterways: Plasma-Enabled Self-Cleaning Nanoarchitectures for Energy-Efficient Desalination. <i>Advanced Energy Materials</i> , 2019 , 9, 1901286	21.8	66
326	Investigation of hybrid plasma-catalytic removal of acetone over CuO/Al ₂ O ₃ catalysts using response surface method. <i>Chemosphere</i> , 2016 , 155, 9-17	8.4	65
325	A review on black carbon emissions, worldwide and in China. <i>Chemosphere</i> , 2014 , 107, 83-93	8.4	63
324	Edge effects in vertically-oriented graphene based electric double-layer capacitors. <i>Journal of Power Sources</i> , 2016 , 324, 309-316	8.9	62
323	Inhibition of microbial growth on air cathodes of single chamber microbial fuel cells by incorporating enrofloxacin into the catalyst layer. <i>Biosensors and Bioelectronics</i> , 2015 , 72, 44-50	11.8	61
322	Improving growth rate of microalgae in a 1191m ² raceway pond to fix CO ₂ from flue gas in a coal-fired power plant. <i>Bioresource Technology</i> , 2015 , 190, 235-41	11	60
321	Enhancing growth rate and lipid yield of <i>Chlorella</i> with nuclear irradiation under high salt and CO ₂ stress. <i>Bioresource Technology</i> , 2016 , 203, 220-7	11	58
320	Oil Recovery from Oil Sludge through Combined Ultrasound and Thermochemical Cleaning Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 9213-9217	3.9	58
319	Comparison of ANN (MLP), ANFIS, SVM, and RF models for the online classification of heating value of burning municipal solid waste in circulating fluidized bed incinerators. <i>Waste Management</i> , 2017 , 68, 186-197	8.6	57
318	Improvement of the energy conversion efficiency of <i>Chlorella pyrenoidosa</i> biomass by a three-stage process comprising dark fermentation, photofermentation, and methanogenesis. <i>Bioresource Technology</i> , 2013 , 146, 436-443	11	56
317	A Cu foam cathode used as a Pt/RGO catalyst matrix to improve CO ₂ reduction in a photoelectrocatalytic cell with a TiO ₂ photoanode. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12947-12957	13	53
316	The Slurrying Properties of Coal Water Slurries Containing Raw Sewage Sludge. <i>Energy & Fuels</i> , 2011 , 25, 747-752	4.1	51
315	A study on the mechanism research on cellulose pyrolysis under catalysis of metallic salts. <i>Korean Journal of Chemical Engineering</i> , 2007 , 24, 336-340	2.8	51
314	Optimizing catalysis conditions to decrease aromatic hydrocarbons and increase alkanes for improving jet biofuel quality. <i>Bioresource Technology</i> , 2014 , 158, 378-82	11	50
313	Design of Supercapacitor Electrodes Using Molecular Dynamics Simulations. <i>Nano-Micro Letters</i> , 2018 , 10, 33	19.5	49
312	Particle-scale investigation of the solid dispersion and residence properties in a 3-D spout-fluid bed. <i>AIChE Journal</i> , 2014 , 60, 2788-2804	3.6	48

311	Subcritical water hydrolysis of rice straw for reducing sugar production with focus on degradation by-products and kinetic analysis. <i>Bioresource Technology</i> , 2015 , 186, 8-14	11	47
310	Graphene Array-Based Anti-fouling Solar Vapour Gap Membrane Distillation with High Energy Efficiency. <i>Nano-Micro Letters</i> , 2019 , 11, 51	19.5	46
309	Hydrogen production using amino acids obtained by protein degradation in waste biomass by combined dark- and photo-fermentation. <i>Bioresource Technology</i> , 2015 , 179, 13-19	11	46
308	Combining Support Vector Regression and Ant Colony Optimization to Reduce NOx Emissions in Coal-Fired Utility Boilers. <i>Energy & Fuels</i> , 2008 , 22, 1034-1040	4.1	45
307	Properties of Coal Water Slurry Prepared with the Solid and Liquid Products of Hydrothermal Dewatering of Brown Coal. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 4511-4517	3.9	44
306	High-Mass-Loading Porous Ti3C2Tx Films for Ultrahigh-Rate Pseudocapacitors. <i>ACS Energy Letters</i> , 2020 , 5, 2266-2274	20.1	43
305	Waste incineration, PVC, and dioxins. <i>Journal of Material Cycles and Waste Management</i> , 2011 , 13, 190-197	3.4	43
304	Improving pollutants removal by microalgae Chlorella PY-ZU1 with 15% CO2 from undiluted anaerobic digestion effluent of food wastes with ozonation pretreatment. <i>Bioresource Technology</i> , 2016 , 216, 273-9	11	41
303	Fermentative hydrogen and methane cogeneration from cassava residues: effect of pretreatment on structural characterization and fermentation performance. <i>Bioresource Technology</i> , 2015 , 179, 407-413	11	40
302	Microstructures and functional groups of Nannochloropsis sp. cells with arsenic adsorption and lipid accumulation. <i>Bioresource Technology</i> , 2015 , 194, 305-11	11	39
301	Enhanced flashing light effect with up-down chute baffles to improve microalgal growth in a raceway pond. <i>Bioresource Technology</i> , 2015 , 190, 29-35	11	39
300	Molecular Origin of Electric Double-Layer Capacitance at Multilayer Graphene Edges. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 153-160	6.4	38
299	The Reaction of Poisonous Alkali Oxides with Vanadia SCR Catalyst and the Afterward Influence: A DFT and Experimental Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1905-1912	3.8	38
298	Mutation of Spirulina sp. by nuclear irradiation to improve growth rate under 15% carbon dioxide in flue gas. <i>Bioresource Technology</i> , 2017 , 238, 650-656	11	37
297	Microstructure and antioxidative capacity of the microalgae mutant Chlorella PY-ZU1 during tilmicosin removal from wastewater under 15% CO. <i>Journal of Hazardous Materials</i> , 2017 , 324, 414-419	12.8	37
296	Transcriptome and key genes expression related to carbon fixation pathways in PY-ZU1 cells and their growth under high concentrations of CO. <i>Biotechnology for Biofuels</i> , 2017 , 10, 181	7.8	37
295	Measurement of water content and moisture distribution in sludge by 1H nuclear magnetic resonance spectroscopy. <i>Drying Technology</i> , 2016 , 34, 267-274	2.6	37
294	Relationship between the molecular structure of V2O5/TiO2 catalysts and the reactivity of SO2 oxidation. <i>Catalysis Science and Technology</i> , 2016 , 6, 1187-1194	5.5	36

293	Identification of the reaction pathway and reactive species for the selective catalytic reduction of NO with NH ₃ over cerium/bismuth oxide catalysts. <i>Catalysis Science and Technology</i> , 2016 , 6, 2136-2142	5.5	35
292	Molecular Insights into Aqueous NaCl Electrolytes Confined within Vertically-oriented Graphenes. <i>Scientific Reports</i> , 2015 , 5, 14652	4.9	35
291	Transcriptome sequencing and metabolic pathways of astaxanthin accumulated in <i>Haematococcus pluvialis</i> mutant under 15% CO ₂ . <i>Bioresource Technology</i> , 2017 , 228, 99-105	11	34
290	Factors Impacting Gaseous Mercury Speciation in Postcombustion. <i>Energy & Fuels</i> , 2007 , 21, 491-495	4.1	33
289	Gradient domestication of <i>Haematococcus pluvialis</i> mutant with 15% CO ₂ to promote biomass growth and astaxanthin yield. <i>Bioresource Technology</i> , 2016 , 216, 340-4	11	32
288	Numerical simulation of acoustic wake effect in acoustic agglomeration under Oseen flow condition. <i>Science Bulletin</i> , 2012 , 57, 2404-2412		32
287	Investigation of the promotion effect of WO ₃ on the decomposition and reactivity of NH ₄ HSO ₄ with NO on V ₂ O ₅ /WO ₃ /TiO ₂ SCR catalysts. <i>RSC Advances</i> , 2016 , 6, 55584-55592	3.7	31
286	Direct Numerical Simulation of Subsonic Round Turbulent Jet. <i>Flow, Turbulence and Combustion</i> , 2010 , 84, 669-686	2.5	31
285	Multi-objective optimization of the coal combustion performance with artificial neural networks and genetic algorithms. <i>International Journal of Energy Research</i> , 2005 , 29, 499-510	4.5	31
284	Enhanced energy recovery from cassava ethanol wastewater through sequential dark hydrogen, photo hydrogen and methane fermentation combined with ammonium removal. <i>Bioresource Technology</i> , 2016 , 214, 686-691	11	31
283	Temperature dependence of ion diffusion coefficients in NaCl electrolyte confined within graphene nanochannels. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7678-7688	3.6	30
282	Synthesis, characterization and catalytic performances of Cu- and Mn-containing ordered mesoporous carbons for the selective catalytic reduction of NO with NH ₃ . <i>Catalysis Science and Technology</i> , 2015 , 5, 1267-1279	5.5	30
281	Enhanced hydrogen production by methanol decomposition using a novel rotating gliding arc discharge plasma. <i>RSC Advances</i> , 2016 , 6, 12770-12781	3.7	30
280	In vivo kinetics of lipids and astaxanthin evolution in <i>Haematococcus pluvialis</i> mutant under 15% CO ₂ using Raman microspectroscopy. <i>Bioresource Technology</i> , 2017 , 244, 1439-1444	11	29
279	Solar-Enhanced Plasma-Catalytic Oxidation of Toluene over a Bifunctional Graphene Fin Foam Decorated with Nanofin-like MnO. <i>ACS Catalysis</i> , 2020 , 10, 4420-4432	13.1	29
278	Catalysis Mechanism Study of Potassium Salts on Cellulose Pyrolysis by Using TGA-FTIR Analysis. <i>Journal of Chemical Engineering of Japan</i> , 2008 , 41, 1133-1142	0.8	29
277	Controllable synthesis of hierarchical MnO/TiO composite nanofibers for complete oxidation of low-concentration acetone. <i>Journal of Hazardous Materials</i> , 2017 , 337, 105-114	12.8	28
276	Kinetic-Dominated Charging Mechanism within Representative Aqueous Electrolyte-based Electric Double-Layer Capacitors. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3703-3710	6.4	28

275	Decrease in light/dark cycle of microalgal cells with computational fluid dynamics simulation to improve microalgal growth in a raceway pond. <i>Bioresource Technology</i> , 2016 , 220, 352-359	11	28
274	Transcriptome-based analysis on carbon metabolism of <i>Haematococcus pluvialis</i> mutant under 15% CO ₂ . <i>Bioresource Technology</i> , 2017 , 233, 313-321	11	27
273	Quantitative Measurement of Atomic Potassium in Plumes over Burning Solid Fuels Using Infrared-Diode Laser Spectroscopy. <i>Energy & Fuels</i> , 2017 , 31, 2831-2837	4.1	27
272	Enhancement of the denitrification activity by exoelectrogens in single-chamber air cathode microbial fuel cells. <i>Chemosphere</i> , 2019 , 225, 548-556	8.4	27
271	Chemical characteristics and sources of PM during the 2016 summer in Hangzhou. <i>Environmental Pollution</i> , 2018 , 232, 42-54	9.3	27
270	Fine particle migration and collection in a wet electrostatic precipitator. <i>Journal of the Air and Waste Management Association</i> , 2017 , 67, 498-506	2.4	27
269	Study on Catalytic Pyrolysis of Manchurian Ash for Production of Bio-Oil. <i>International Journal of Green Energy</i> , 2010 , 7, 300-309	3	27
268	Improving CO ₂ fixation with microalgae by bubble breakage in raceway ponds with up-down chute baffles. <i>Bioresource Technology</i> , 2016 , 201, 174-81	11	26
267	CO ₂ Adsorption Performance of Ionic Liquid [P66614][2-Op] Loaded onto Molecular Sieve MCM-41 Compared to Pure Ionic Liquid in Biohythane/Pure CO ₂ Atmospheres. <i>Energy & Fuels</i> , 2016 , 30, 3251-3256	4.1	26
266	Wettability of vertically-oriented graphenes with different intersheet distances. <i>RSC Advances</i> , 2017 , 7, 2667-2675	3.7	25
265	Bimetallic cerium-copper nanoparticles embedded in ordered mesoporous carbons as effective catalysts for the selective catalytic reduction of NO with NH ₃ . <i>Journal of Colloid and Interface Science</i> , 2015 , 456, 66-75	9.3	25
264	Oxidative Adsorption of Elemental Mercury by Activated Carbon in Simulated Coal-Fired Flue Gas. <i>Energy & Fuels</i> , 2011 , 25, 154-158	4.1	25
263	Pyrolysis of wood species based on the compositional analysis. <i>Korean Journal of Chemical Engineering</i> , 2009 , 26, 548-553	2.8	25
262	Ionic-liquid pretreatment of cassava residues for the cogeneration of fermentative hydrogen and methane. <i>Bioresource Technology</i> , 2017 , 228, 348-354	11	24
261	Characteristics of Coal Partial Gasification on a Circulating Fluidized Bed Reactor. <i>Energy & Fuels</i> , 2017 , 31, 2557-2564	4.1	24
260	Adsorption of NO on ordered mesoporous carbon and its improvement by cerium. <i>RSC Advances</i> , 2014 , 4, 16281	3.7	24
259	Wetted-wall column study on CO ₂ absorption kinetics enhancement by additive of nanoparticles. <i>Energy & Fuels</i> , 2015 , 5, 682-694		24
258	Catalytic Thermal Decomposition of Hydrogen Iodide in Sulfur Iodine Cycle for Hydrogen Production. <i>Energy & Fuels</i> , 2008 , 22, 1227-1232	4.1	24

257	Pyrolysis Characteristics and Evolution of Char Structure during Pulverized Coal Pyrolysis in Drop Tube Furnace: Influence of Temperature. <i>Energy & Fuels</i> , 2017 , 31, 4799-4807	4.1	23
256	Controllable synthesis of novel hierarchical V ₂ O ₅ /TiO ₂ nanofibers with improved acetone oxidation performance. <i>RSC Advances</i> , 2015 , 5, 30416-30424	3.7	23
255	Improving microalgal growth with reduced diameters of aeration bubbles and enhanced mass transfer of solution in an oscillating flow field. <i>Bioresource Technology</i> , 2016 , 211, 429-34	11	23
254	Fractal microstructure characterization of wet microalgal cells disrupted with ultrasonic cavitation for lipid extraction. <i>Bioresource Technology</i> , 2014 , 170, 138-143	11	23
253	Investigation of Slagging Characteristics in a 300 kW Test Furnace: Effect of Deposition Surface Temperature. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 7233-7246	3.9	23
252	New weighted-sum-of-gray-gases model for typical pressurized oxy-fuel conditions. <i>International Journal of Energy Research</i> , 2017 , 41, 2576-2595	4.5	23
251	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. <i>Bioresource Technology</i> , 2016 , 211, 519-26	11	23
250	Smog chamber study of the role of NH in new particle formation from photo-oxidation of aromatic hydrocarbons. <i>Science of the Total Environment</i> , 2018 , 619-620, 927-937	10.2	23
249	Characteristics of Dielectric Barrier Discharge Ozone Synthesis for Different Pulse Modes. <i>Plasma Chemistry and Plasma Processing</i> , 2017 , 37, 1165-1173	3.6	22
248	Meteorological and chemical impacts on PM during a haze episode in a heavily polluted basin city of eastern China. <i>Environmental Pollution</i> , 2019 , 250, 520-529	9.3	22
247	Enhancement of NO oxidation activity and SO ₂ resistance over LaMnO ₃ + δ perovskites catalysts with metal substitution and acid treatment. <i>Applied Surface Science</i> , 2019 , 479, 234-246	6.7	22
246	Physicochemical characterization of wet microalgal cells disrupted with instant catapult steam explosion for lipid extraction. <i>Bioresource Technology</i> , 2015 , 191, 66-72	11	21
245	Effects of the physical and chemical properties of petroleum coke on its slurryability. <i>Petroleum Science</i> , 2012 , 9, 251-256	4.4	21
244	Density Functional Study of NO Desorption from Oxidation of Nitrogen Containing Char by O ₂ . <i>Combustion Science and Technology</i> , 2012 , 184, 445-455	1.5	21
243	Effect of Mineral Matter on NO Reduction in Coal Reburning Process. <i>Energy & Fuels</i> , 2007 , 21, 2038-2043	4.1	21
242	Effects of Pyrolysis Atmosphere and Temperature on Coal Char Characteristics and Gasification Reactivity. <i>Energy Technology</i> , 2016 , 4, 543-550	3.5	21
241	Rotating Gliding Arc Assisted Water Splitting in Atmospheric Nitrogen. <i>Plasma Chemistry and Plasma Processing</i> , 2016 , 36, 813-834	3.6	21
240	The effect of microbubbles on gas-liquid mass transfer coefficient and degradation rate of COD in wastewater treatment. <i>Water Science and Technology</i> , 2016 , 73, 1969-77	2.2	21

239	Factors Controlling High-temperature Zone Resistance to Airflow during Iron Ore Sintering. <i>ISIJ International</i> , 2015 , 55, 2556-2565	1.7	20
238	Large-eddy Simulation of Pilot-assisted Pulverized-coal Combustion in a Weakly Turbulent Jet. <i>Flow, Turbulence and Combustion</i> , 2017 , 99, 531-550	2.5	19
237	Numerical Simulation of Particle Dispersion in the Wake of a Circular Cylinder. <i>Aerosol Science and Technology</i> , 2009 , 43, 174-187	3.4	19
236	Effect of zirconium(IV) propoxide concentration on the thermophysical properties of hybrid organic-inorganic films. <i>Journal of Applied Physics</i> , 2008 , 104, 013528	2.5	19
235	Online-CPD-Coupled Large-Eddy Simulation of Pulverized-Coal Pyrolysis in a Hot Turbulent Nitrogen Jet. <i>Combustion Science and Technology</i> , 2017 , 189, 103-131	1.5	18
234	Sensitivity to Oxygen in Microbial Electrochemical Systems Biofilms. <i>IScience</i> , 2019 , 13, 163-172	6.1	18
233	Spill-SOS: Self-Pumping Siphon-Capillary Oil Recovery. <i>ACS Nano</i> , 2019 , 13, 13027-13036	16.7	18
232	Plasma-Made Graphene Nanostructures with Molecularly Dispersed F and Na Sites for Solar Desalination of Oil-Contaminated Seawater with Complete In-Water and In-Air Oil Rejection. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38512-38521	9.5	18
231	Tree-inspired radially aligned, bimodal graphene frameworks for highly efficient and isotropic thermal transport. <i>Nanoscale</i> , 2019 , 11, 21249-21258	7.7	18
230	Multifunctional solar bamboo straw: Multiscale 3D membrane for self-sustained solar-thermal water desalination and purification and thermoelectric waste heat recovery and storage. <i>Carbon</i> , 2021 , 171, 359-367	10.4	18
229	Simultaneous enhancement of microalgae biomass growth and lipid accumulation under continuous aeration with 15% CO ₂ . <i>RSC Advances</i> , 2015 , 5, 50851-50858	3.7	17
228	Exploring the role of V ₂ O ₅ in the reactivity of NH ₄ HSO ₄ with NO on V ₂ O ₅ /TiO ₂ SCR catalysts. <i>RSC Advances</i> , 2016 , 6, 102436-102443	3.7	17
227	Adsorption kinetics of NO on ordered mesoporous carbon (OMC) and cerium-containing OMC (Ce-OMC). <i>Applied Surface Science</i> , 2014 , 317, 26-34	6.7	17
226	Atmospheric emission characterization of a novel sludge drying and co-combustion system. <i>Journal of Environmental Sciences</i> , 2013 , 25, 2088-92	6.4	17
225	Physicochemical characterizations for improving the slurryability of Philippine lignite upgraded through microwave irradiation. <i>RSC Advances</i> , 2015 , 5, 14690-14696	3.7	17
224	Plasma Vitrification of Air Pollution Control Residues From Municipal Solid-Waste Incineration. <i>IEEE Transactions on Plasma Science</i> , 2010 , 38, 3319-3325	1.3	17
223	Investigation of NO Removal with Ozone Deep Oxidation in Na ₂ CO ₃ Solution. <i>Energy & Fuels</i> , 2019 , 33, 4454-4461	4.1	16
222	Sodium borohydride removes aldehyde inhibitors for enhancing biohydrogen fermentation. <i>Bioresource Technology</i> , 2015 , 197, 323-8	11	16

221	In-situ grafting to improve polarity of polyacrylonitrile hollow fiber-supported polydimethylsiloxane membranes for CO separation. <i>Journal of Colloid and Interface Science</i> , 2018 , 510, 12-19	9.3	16
220	Improving CO ₂ permeability of ceramic hollow fibre-supported composite membranes by blending an ionic liquid in the Pebax/PEGDME selective layer. <i>RSC Advances</i> , 2016 , 6, 2055-2064	3.7	16
219	Modeling of Combustion Process in 600 MW Utility Boiler Using Comprehensive Models and Its Experimental Validation. <i>Energy & Fuels</i> , 1999 , 13, 1051-1057	4.1	16
218	Superstructure-Enabled Anti-Fouling Membrane for Efficient Photothermal Distillation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 20151-20158	8.3	16
217	Influence of wettability on the electrolyte electrosorption within graphene-like nonconfined and confined space. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 133, 416-425	4.9	16
216	Hydrogen Production from Methanol Decomposition in a Gliding Arc Discharge Plasma with High Processing Capacity. <i>Chemistry Letters</i> , 2015 , 44, 1315-1317	1.7	15
215	Kinetic Modeling of Homogeneous Low-Temperature Multi-Pollutant Oxidation by Ozone. <i>Ozone: Science and Engineering</i> , 2007 , 29, 207-214	2.4	15
214	Solid-state NMR Study of Ion Adsorption and Charge Storage in Graphene Film Supercapacitor Electrodes. <i>Scientific Reports</i> , 2016 , 6, 39689	4.9	15
213	Developing a water-circulating column photobioreactor for microalgal growth with low energy consumption. <i>Bioresource Technology</i> , 2016 , 221, 492-497	11	15
212	Promoting Photochemical Efficiency of Chlorella PY-ZU1 with Enhanced Velocity Field and Turbulent Kinetics in a Novel Tangential Spiral-Flow Column Photobioreactor. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 384-393	8.3	15
211	Modelling alkali metal emissions in large-eddy simulation of a preheated pulverised-coal turbulent jet flame using tabulated chemistry. <i>Combustion Theory and Modelling</i> , 2018 , 22, 203-236	1.5	15
210	Reliability of Constant Charge Method for Molecular Dynamics Simulations on EDLCs in Nanometer and Sub-Nanometer Spaces. <i>ChemElectroChem</i> , 2017 , 4, 2486-2493	4.3	14
209	Electrolysis of the Bunsen Reaction and Properties of the Membrane in the Sulfur/Iodine Thermochemical Cycle. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 13581-13588	3.9	14
208	Simultaneous In-Situ Measurement of Soot Volume Fraction, H ₂ O Concentration, and Temperature in an Ethylene/Air Premixed Flame Using Tunable Diode Laser Absorption Spectroscopy. <i>Combustion Science and Technology</i> , 2017 , 189, 1571-1590	1.5	13
207	Ozone Production with Dielectric Barrier Discharge from Air: The Influence of Pulse Polarity. <i>Ozone: Science and Engineering</i> , 2018 , 40, 494-502	2.4	13
206	Simulation of a Lignite-Based Polygeneration System Coproducing Electricity and Tar with Carbon Capture. <i>Chemical Engineering and Technology</i> , 2015 , 38, 463-472	2	13
205	Viscosity and aggregation structure of nanocolloidal dispersions. <i>Science Bulletin</i> , 2012 , 57, 3644-3651		13
204	Full-Scale Numerical Investigation of a Selective Noncatalytic Reduction (SNCR) System in a 100 MW Utility Boiler with Complex Chemistry and Decoupling Approach. <i>Energy & Fuels</i> , 2010 , 24, 5432-5440	4.1	13

203	Measurement on particle rotation speed in gas-solid flow based on identification of particle rotation axis. <i>Experiments in Fluids</i> , 2008 , 45, 1117-1128	2.5	13
202	Hierarchical, Vertically-Oriented Carbon Nanowall Foam Supercapacitor using Room Temperature Ionic Liquid Mixture for AC Line Filtering with Ultrahigh Energy Density. <i>ChemElectroChem</i> , 2019 , 6, 2167-2173	4.3	13
201	In Situ Measurements of the Release Characteristics and Catalytic Effects of Different Chemical Forms of Sodium during Combustion of Zhundong Coal. <i>Energy & Fuels</i> , 2018 , 32, 6595-6602	4.1	13
200	Experimental Study on the NO _x Removal by Scrubbing with Urea-H ₂ O ₂ Solution after NO Partial Preoxidation. <i>Energy & Fuels</i> , 2019 , 33, 6600-6605	4.1	12
199	HI Decomposition over Carbon-Based and Ni-Impregnated Catalysts of the Sulfur-Iodine Cycle for Hydrogen Production. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 1498-1504	3.9	12
198	Experimental Investigation of the Growth of Ash Deposits with and without Additives through a Digital Image Technique. <i>Energy & Fuels</i> , 2012 , 26, 6824-6833	4.1	12
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