

# Kefa Cen

## List of Publications by Year in Descending Order

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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	Aligned Ti3C2TX Aerogel with High Rate Performance, Power Density and Sub-Zero-Temperature Stability. <i>Energies</i> , <b>2022</b> , 15, 1191	3.1	3
345	MXene-Based Electrodes for Supercapacitor Energy Storage. <i>Energy &amp; Fuels</i> , <b>2022</b> , 36, 2390-2406	4.1	5
344	Unexpected rise of atmospheric secondary aerosols from biomass burning during the COVID-19 lockdown period in Hangzhou, China.. <i>Atmospheric Environment</i> , <b>2022</b> , 278, 119076	5.3	1
343	Generalized prediction and optimal operating parameters of PCDD/F emissions by explainable Bayesian support vector regression. <i>Waste Management</i> , <b>2021</b> , 135, 437-447	8.6	
342	Thermal decomposition and combustion characteristics of Al/AP/HTPB propellant. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 143, 3935-3944	4.1	6
341	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> , <b>2021</b> , 171, 359-367	10.4	18
340	Interplay effect on simultaneous catalytic oxidation of NO and toluene over different crystal types of MnO2 catalysts. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 5433-5441	5.9	3
339	Study on CO2 gasification properties of coal gasification wastewater slurry. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2021</b> , 16, e2617	1.3	0
338	Effect of coating structure of granulated quasi-fuel particles in iron ore sintering. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2021</b> , 16, e2629	1.3	0
337	Investigation of LaMnO3 catalyst loaded on HZSM-5 zeolite for CO catalytic oxidation. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2021</b> , 16, e2630	1.3	1
336	Interactive Effects in Two-Droplets Combustion of RP-3 Kerosene under Sub-Atmospheric Pressure. <i>Processes</i> , <b>2021</b> , 9, 1229	2.9	1
335	Regulating thermochemical redox temperature via oxygen defect engineering for protection of solar molten salt receivers. <i>IScience</i> , <b>2021</b> , 24, 103039	6.1	1
334	Phase change material enhanced sustained and energy-efficient solar-thermal water desalination. <i>Applied Energy</i> , <b>2021</b> , 301, 117463	10.7	4
333	High-Mass-Loading Porous Ti3C2Tx Films for Ultrahigh-Rate Pseudocapacitors. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2266-2274	20.1	43
332	SO Electrocatalytic Oxidation Properties of Pt-Ru/C Bimetallic Catalysts with Different Nanostructures. <i>Langmuir</i> , <b>2020</b> , 36, 3111-3118	4	2
331	Solar-Enhanced Plasma-Catalytic Oxidation of Toluene over a Bifunctional Graphene Fin Foam Decorated with Nanofin-like MnO. <i>ACS Catalysis</i> , <b>2020</b> , 10, 4420-4432	13.1	29
330	Highly Thermo-Conductive Three-Dimensional Graphene Aqueous Medium. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 138	19.5	3

329	Effect of granulating characteristics on harmless disposal of waste selective catalytic reduction catalyst in iron ore sintering process. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2020</b> , 15, e2428	1.3	3
328	A novel flame energy grading conversion system: Preliminary experiment and thermodynamic parametric analysis. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 2084-2099	4.5	5
327	Ion Dynamics of Water-in-Salt Electrolyte with Organic Solvents in Nanoporous Supercapacitor Electrodes. <i>ChemElectroChem</i> , <b>2020</b> , 7, 2048-2054	4.3	3
326	Influences of Coal Type and Particle Size on Soot Measurement by Laser-Induced Incandescence and Soot Formation Characteristics in Laminar Pulverized Coal Flames. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 13740-13749	4.1	1
325	High-Performance Pt Catalyst with Graphene/Carbon Black as a Hybrid Support for SO Electrochemical Oxidation. <i>Langmuir</i> , <b>2020</b> , 36, 20-27	4	3
324	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 &amp; Interfaces</i> , <b>2020</b> , 12, 38512-38521	9.5	18
323	Kinetics and Mechanisms of Metal Chlorides Catalysis for Coal Char Gasification with CO <sub>2</sub> . <i>Catalysts</i> , <b>2020</b> , 10, 715	4	2
322	Multi-linear antenna microwave plasma assisted large-area growth of 6 μm vertically oriented graphenes with high growth rate. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 076105	1.7	5
321	Experimental and numerical evaluation of a lab-scale external solar receiver. <i>Journal of Renewable and Sustainable Energy</i> , <b>2020</b> , 12, 043705	2.5	5
320	The effects of humidity and ammonia on the chemical composition of secondary aerosols from toluene/NO <sub>x</sub> photo-oxidation. <i>Science of the Total Environment</i> , <b>2020</b> , 728, 138671	10.2	9
319	Solar Energy Conversion: Multifunctional Solar Waterways: Plasma-Enabled Self-Cleaning Nanoarchitectures for Energy-Efficient Desalination (Adv. Energy Mater. 30/2019). <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1970119	21.8	6
318	Catalytic Effect of Metal Chloride Additives on the Volatile Gas Release Characteristics for High-Temperature Lignite Pyrolysis. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 9437-9445	4.1	9
317	Optical and thermal performance of a novel solar particle receiver <b>2019</b> ,		1
316	NO <sub>x</sub> Reduction in a 130 t/h Biomass-Fired Circulating Fluid Bed Boiler Using Coupled Ozonation and Wet Absorption Technology. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 18134-18140	2.9	7
315	Hydrogen Sulfide Promotes Cell Division and Photosynthesis of <i>Nannochloropsis oceanica</i> with 15% Carbon Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 16344-16354	8.3	6
314	United Conversion Process Coupling CO Mineralization with Thermochemical Hydrogen Production. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 12091-12100	10.3	3
313	Multifunctional Solar Waterways: Plasma-Enabled Self-Cleaning Nanoarchitectures for Energy-Efficient Desalination. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901286	21.8	66
312	Experimental Study on the NO <sub>x</sub> Removal by Scrubbing with Urea/NO <sub>2</sub> Solution after NO Partial Preoxidation. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 6600-6605	4.1	12

311	Pyrolysis characteristics of low-rank coals based on double-gaussian distributed activation energy model. <i>Canadian Journal of Chemical Engineering</i> , <b>2019</b> , 97, 2642-2652	2.3	1
310	Experimental measurements and XCT based simulation of effective thermal conductivity of stacked ceramsites in molten-salt tank foundation. <i>Heat and Mass Transfer</i> , <b>2019</b> , 55, 3103-3115	2.2	1
309	Graphene Array-Based Anti-fouling Solar Vapour Gap Membrane Distillation with High Energy Efficiency. <i>Nano-Micro Letters</i> , <b>2019</b> , 11, 51	19.5	46
308	Multiparameter Measurement in Ethylene Diffusion Flame Based on Time-Division Multiplexed Tunable Diode Laser Absorption Spectroscopy. <i>IEEE Photonics Journal</i> , <b>2019</b> , 11, 1-12	1.8	9
307	Solar driven reduction of CO using Pt-Cu/C as a catalyst in a photoelectrochemical cell: experiment and mechanism study.. <i>RSC Advances</i> , <b>2019</b> , 9, 10635-10644	3.7	3
306	Well-Aligned Hierarchical Graphene-Based Electrodes for Pseudocapacitors with Outstanding Low-Temperature Stability. <i>ChemElectroChem</i> , <b>2019</b> , 6, 2788-2795	4.3	11
305	Transcriptome and key gene expression related to carbon metabolism and fatty acid synthesis of <i>Chlorella vulgaris</i> under a nitrogen starvation and phosphorus repletion regime. <i>Journal of Applied Phycology</i> , <b>2019</b> , 31, 2881-2893	3.2	5
304	Meteorological and chemical impacts on PM during a haze episode in a heavily polluted basin city of eastern China. <i>Environmental Pollution</i> , <b>2019</b> , 250, 520-529	9.3	22
303	Online blend-type identification during co-firing coal and biomass using SVM and flame emission spectrum in a pilot-scale furnace. <i>IET Renewable Power Generation</i> , <b>2019</b> , 13, 253-261	2.9	3
302	Enhancement of the denitrification activity by exoelectrogens in single-chamber air cathode microbial fuel cells. <i>Chemosphere</i> , <b>2019</b> , 225, 548-556	8.4	27
301	Sensitivity to Oxygen in Microbial Electrochemical Systems Biofilms. <i>IScience</i> , <b>2019</b> , 13, 163-172	6.1	18
300	Hierarchical, Vertically-Oriented Carbon Nanowall Foam Supercapacitor Using Room Temperature Ionic Liquid Mixture for AC Line Filtering with Ultrahigh Energy Density. <i>ChemElectroChem</i> , <b>2019</b> , 6, 2123-2123 <sup>1</sup>	4.3	1
299	The spin-coating-based immobilization of ZnTPP-dyed cation exchange resin microbeads for reversible ammonia detection. <i>Analytical Methods</i> , <b>2019</b> , 11, 2155-2162	3.2	
298	Investigation of NO Removal with Ozone Deep Oxidation in Na <sub>2</sub> CO <sub>3</sub> Solution. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 4454-4461	4.1	16
297	Enhancement of NO oxidation activity and SO <sub>2</sub> resistance over LaMnO <sub>3</sub> + $\square$ perovskites catalysts with metal substitution and acid treatment. <i>Applied Surface Science</i> , <b>2019</b> , 479, 234-246	6.7	22
296	Reduced-order analysis of an oil-fuel furnace vibration and comparison with the finite element method. <i>JVC/Journal of Vibration and Control</i> , <b>2019</b> , 25, 298-309	2	0
295	Primary Fragmentation Behavior Investigation in Pulverized Coal Combustion with High-Speed Digital Inline Holography. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 8126-8134	4.1	9
294	Metal chloride influence on syngas component during coal pyrolysis in fixed-bed and entrained flow drop-tube furnace. <i>Science China Technological Sciences</i> , <b>2019</b> , 62, 2029-2037	3.5	3

293	Effects of Metal Ions in Organic Wastewater on Coal Water Slurry and Dispersant Properties. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 7110-7117	4.1	11
292	Effect of carbonization temperature on the grindability of carbonaceous material produced from different coals. <i>Canadian Journal of Chemical Engineering</i> , <b>2019</b> , 97, 2653-2661	2.3	1
291	The influence of Na <sub>2</sub> SO <sub>3</sub> /NaHSO <sub>3</sub> on the formation process of low-temperature ash deposition with an in situ measurement technique. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2019</b> , 14, e2351	1.3	3
290	Techno-economic analysis of novel power generation system based on coal partial gasification technology. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2019</b> , 14, e2377	1.3	2
289	Spill-SOS: Self-Pumping Siphon-Capillary Oil Recovery. <i>ACS Nano</i> , <b>2019</b> , 13, 13027-13036	16.7	18
288	Combined conventional thermal and microwave drying process for typical Chinese lignite. <i>Drying Technology</i> , <b>2019</b> , 37, 813-823	2.6	5
287	Superstructure-Enabled Anti-Fouling Membrane for Efficient Photothermal Distillation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 20151-20158	8.3	16
286	Tree-inspired radially aligned, bimodal graphene frameworks for highly efficient and isotropic thermal transport. <i>Nanoscale</i> , <b>2019</b> , 11, 21249-21258	7.7	18
285	Source Apportionment of Volatile Organic Compounds (VOCs) during Ozone Polluted Days in Hangzhou, China. <i>Atmosphere</i> , <b>2019</b> , 10, 780	2.7	7
284	Influence of wettability on the electrolyte electrosorption within graphene-like nonconfined and confined space. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 133, 416-425	4.9	16
283	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> , <b>2019</b> , 7, 384-393	8.3	15
282	Enhanced Solar Conversion of CO <sub>2</sub> to CO Using Mn-doped TiO <sub>2</sub> Based on Photo-thermochemical Cycle. <i>ChemistrySelect</i> , <b>2019</b> , 4, 236-244	1.8	5
281	Hierarchical, Vertically-Oriented Carbon Nanowall Foam Supercapacitor using Room Temperature Ionic Liquid Mixture for AC Line Filtering with Ultrahigh Energy Density. <i>ChemElectroChem</i> , <b>2019</b> , 6, 2167-2173	4.3	13
280	Effects of Hydrothermal Modification on Sulfur Release of Low-Quality Coals During Thermal Transformation Process. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2018</b> , 140,	2.6	5
279	Experimental studies on coal water slurries prepared from coal gasification wastewater. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2018</b> , 13, e2162	1.3	8
278	Changes in the physicochemical characteristics and spontaneous combustion propensity of Ximeng lignite after hydrothermal dewatering. <i>Canadian Journal of Chemical Engineering</i> , <b>2018</b> , 96, 2387-2394	2.3	11
277	The Benefits of Small Quantities of Nitrogen in the Oxygen Feed to Ozone Generators. <i>Ozone: Science and Engineering</i> , <b>2018</b> , 40, 313-320	2.4	3
276	Design of Supercapacitor Electrodes Using Molecular Dynamics Simulations. <i>Nano-Micro Letters</i> , <b>2018</b> , 10, 33	19.5	49

275	Ozone Production Influenced by Increasing Gas Pressure in Multichannel Dielectric Barrier Discharge for Positive and Negative Pulse Modes. <i>Ozone: Science and Engineering</i> , <b>2018</b> , 40, 228-236	2.4	5
274	The Relationship between Sinter Mix Composition and Flame Front Properties by a Novel Experimental Approach. <i>Combustion Science and Technology</i> , <b>2018</b> , 190, 721-739	1.5	2
273	Improving the CO <sub>2</sub> fixation rate by increasing flow rate of the flue gas from microalgae in a raceway pond. <i>Korean Journal of Chemical Engineering</i> , <b>2018</b> , 35, 498-502	2.8	11
272	Behavior of Slagging Deposits during Coal and Biomass Co-combustion in a 300 kW Down-Fired Furnace. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 4399-4409	4.1	8
271	Experimental study of the combustion and NO emission behaviors during cofiring coal and biomass in O <sub>2</sub> /N <sub>2</sub> and O <sub>2</sub> /H <sub>2</sub> O. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2018</b> , 13, e2198	1.3	3
270	Catalyst Screening and Development for HI Decomposition in Sulfur-iodine Thermochemical Cycle for Hydrogen Production. <i>Chemistry Letters</i> , <b>2018</b> , 47, 700-703	1.7	2
269	Emission characteristics and vapour/particulate phase distributions of PCDD/F in a hazardous waste incinerator under transient conditions. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 171079	3.3	3
268	Effect of Ultrasonic Pre-treatment on Dewaterability and Moisture Distribution in Sewage Sludge. <i>Waste and Biomass Valorization</i> , <b>2018</b> , 9, 247-253	3.2	5
267	Enhancing slurryabilities of five lignites from Inner Mongolia of China by microwave irradiation. <i>Drying Technology</i> , <b>2018</b> , 36, 100-108	2.6	5
266	Mechanism and Kinetic Study on Elemental Mercury Oxidation in Flue Gas by Ozone Injection. <i>Ozone: Science and Engineering</i> , <b>2018</b> , 40, 29-36	2.4	5
265	Chemical characteristics and sources of PM during the 2016 summer in Hangzhou. <i>Environmental Pollution</i> , <b>2018</b> , 232, 42-54	9.3	27
264	Study on the slurry ability and combustion behaviour of coal-bioferment residue of drugs-slurry. <i>Canadian Journal of Chemical Engineering</i> , <b>2018</b> , 96, 838-844	2.3	7
263	Optimization of coating solution viscosity of hollow fiber-supported polydimethylsiloxane membrane for CO <sub>2</sub> /H <sub>2</sub> separation. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 45765	2.9	11
262	In-situ grafting to improve polarity of polyacrylonitrile hollow fiber-supported polydimethylsiloxane membranes for CO separation. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 510, 12-19	9.3	16
261	Reaction Mechanism Reduction for Ozone-Enhanced CH <sub>4</sub> /Air Combustion by a Combination of Directed Relation Graph with Error Propagation, Sensitivity Analysis and Quasi-Steady State Assumption. <i>Energies</i> , <b>2018</b> , 11, 1470	3.1	4
260	In-Situ Characterization of Coal Particle Combustion via Long Working Distance Digital In-Line Holography. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 8277-8286	4.1	10
259	Verification and Validation of a Low-Mach-Number Large-Eddy Simulation Code against Manufactured Solutions and Experimental Results. <i>Energies</i> , <b>2018</b> , 11, 921	3.1	2
258	The formation mechanism and distribution of micro-aluminum oxide layer. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 133, 1335-1344	4.1	3

257	Ozone Production with Dielectric Barrier Discharge from Air: The Influence of Pulse Polarity. <i>Ozone: Science and Engineering</i> , <b>2018</b> , 40, 494-502	2.4	13
256	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> , <b>2018</b> , 619-620, 927-937	10.2	23
255	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> , <b>2018</b> , 22, 203-236	1.5	15
254	Hierarchical Petal-on-Petal MnO <sub>2</sub> /Vertical Graphene Foam for Postplasma Catalytic Decomposition of Toluene with High Efficiency and Ultralow Pressure Drop. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> ,	3.9	3
253	Graphene Nanoplatelet and Reduced Graphene Oxide Functionalized by Ionic Liquid for CO <sub>2</sub> Capture. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 6918-6925	4.1	8
252	In Situ Measurements of the Release Characteristics and Catalytic Effects of Different Chemical Forms of Sodium during Combustion of Zhundong Coal. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 6595-6602	4.1	13
251	Online-CPD-Coupled Large-Eddy Simulation of Pulverized-Coal Pyrolysis in a Hot Turbulent Nitrogen Jet. <i>Combustion Science and Technology</i> , <b>2017</b> , 189, 103-131	1.5	18
250	Ionic-liquid pretreatment of cassava residues for the cogeneration of fermentative hydrogen and methane. <i>Bioresource Technology</i> , <b>2017</b> , 228, 348-354	11	24
249	Wettability of vertically-oriented graphenes with different intersheet distances. <i>RSC Advances</i> , <b>2017</b> , 7, 2667-2675	3.7	25
248	Generation and Evolution of Surface Oxide Layer of Amorphous Boron during Thermal Oxidation: A Micro/nanofabricated Slice Measurement. <i>Propellants, Explosives, Pyrotechnics</i> , <b>2017</b> , 42, 532-540	1.7	8
247	Temperature dependence of ion diffusion coefficients in NaCl electrolyte confined within graphene nanochannels. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 7678-7688	3.6	30
246	Interfacial charge transport behavior and thermal profiles of vertically oriented graphene-bridged supercapacitors. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1600804	1.3	0
245	Experimental study of the wake characteristics of a two-blade horizontal axis wind turbine by time-resolved PIV. <i>Science China Technological Sciences</i> , <b>2017</b> , 60, 593-601	3.5	2
244	Transcriptome-based analysis on carbon metabolism of <i>Haematococcus pluvialis</i> mutant under 15% CO <sub>2</sub> . <i>Bioresource Technology</i> , <b>2017</b> , 233, 313-321	11	27
243	Quantitative Measurement of Atomic Potassium in Plumes over Burning Solid Fuels Using Infrared-Diode Laser Spectroscopy. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 2831-2837	4.1	27
242	Mechanism underlying the effect of conventional drying on the grinding characteristics of Ximeng lignite. <i>Korean Journal of Chemical Engineering</i> , <b>2017</b> , 34, 1250-1259	2.8	6
241	Effects of CH <sub>4</sub> Content on NO Formation in One-Dimensional Adiabatic Flames Investigated by Saturated Laser-Induced Fluorescence and CHEMKIN Modeling. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 3154-3163	4.1	4
240	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> , <b>2017</b> , 68, 186-197	8.6	57

239	PCDD/F emissions during startup and shutdown of a hazardous waste incinerator. <i>Chemosphere</i> , <b>2017</b> , 181, 645-654	8.4	10
238	Controllable synthesis of hierarchical MnO/TiO composite nanofibers for complete oxidation of low-concentration acetone. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 337, 105-114	12.8	28
237	Determination of soot particle size using time-gated laser-induced incandescence images. <i>Applied Physics B: Lasers and Optics</i> , <b>2017</b> , 123, 1	1.9	6
236	Boosting biomethane yield and production rate with graphene: The potential of direct interspecies electron transfer in anaerobic digestion. <i>Bioresource Technology</i> , <b>2017</b> , 239, 345-352	11	188
235	Mutation of <i>Spirulina</i> sp. by nuclear irradiation to improve growth rate under 15% carbon dioxide in flue gas. <i>Bioresource Technology</i> , <b>2017</b> , 238, 650-656	11	37
234	In vivo kinetics of lipids and astaxanthin evolution in <i>Haematococcus pluvialis</i> mutant under 15% CO using Raman microspectroscopy. <i>Bioresource Technology</i> , <b>2017</b> , 244, 1439-1444	11	29
233	Characteristics of Dielectric Barrier Discharge Ozone Synthesis for Different Pulse Modes. <i>Plasma Chemistry and Plasma Processing</i> , <b>2017</b> , 37, 1165-1173	3.6	22
232	Investigating hydrothermal pretreatment of food waste for two-stage fermentative hydrogen and methane co-production. <i>Bioresource Technology</i> , <b>2017</b> , 241, 491-499	11	108
231	Catalyst tolerance to SO <sub>2</sub> and water vapor of Mn based bimetallic oxides for NO deep oxidation by ozone. <i>RSC Advances</i> , <b>2017</b> , 7, 25132-25143	3.7	5
230	Reliability of Constant Charge Method for Molecular Dynamics Simulations on EDLCs in Nanometer and Sub-Nanometer Spaces. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2486-2493	4.3	14
229	Simultaneous Measurement of Three-Dimensional Particle Temperature, Particle Concentration, and H <sub>2</sub> O Concentration Distributions Using Multispectral Flame Images. <i>Combustion Science and Technology</i> , <b>2017</b> , 189, 1891-1906	1.5	6
228	Pyrolysis Characteristics and Evolution of Char Structure during Pulverized Coal Pyrolysis in Drop Tube Furnace: Influence of Temperature. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 4799-4807	4.1	23
227	Simultaneous In-Situ Measurement of Soot Volume Fraction, H <sub>2</sub> O Concentration, and Temperature in an Ethylene/Air Premixed Flame Using Tunable Diode Laser Absorption Spectroscopy. <i>Combustion Science and Technology</i> , <b>2017</b> , 189, 1571-1590	1.5	13
226	Characteristics of Coal Partial Gasification on a Circulating Fluidized Bed Reactor. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 2557-2564	4.1	24
225	Soot particle sizing based on analytical formula derived from laser-induced incandescence decay signals. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 041903	3.4	2
224	Transcriptome sequencing and metabolic pathways of astaxanthin accumulated in <i>Haematococcus pluvialis</i> mutant under 15% CO. <i>Bioresource Technology</i> , <b>2017</b> , 228, 99-105	11	34
223	Enhanced hydrogen production of <i>Enterobacter aerogenes</i> mutated by nuclear irradiation. <i>Bioresource Technology</i> , <b>2017</b> , 227, 50-55	11	10
222	Microstructure and antioxidative capacity of the microalgae mutant <i>Chlorella</i> PY-ZU1 during tilmicosin removal from wastewater under 15% CO. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 324, 414-419	12.8	37



221	Molecular Origin of Electric Double-Layer Capacitance at Multilayer Graphene Edges. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 153-160	6.4	38
220	Reliability of Constant Charge Method for Molecular Dynamics Simulations on EDLCs in Nanometer and Sub-Nanometer Spaces. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2427-2427	4.3	
219	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> , <b>2017</b> , 10, 181	7.8	37
218	Large-eddy simulation and experimental study on the turbulent wake flow characteristics of a two-bladed wind turbine. <i>Science China Technological Sciences</i> , <b>2017</b> , 60, 1861-1869	3.5	5
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216	Experimental Study on Dynamic Combustion Characteristics of Aluminum Particles. <i>Propellants, Explosives, Pyrotechnics</i> , <b>2017</b> , 42, 982-992	1.7	6
215	New weighted-sum-of-gray-gases model for typical pressurized oxy-fuel conditions. <i>International Journal of Energy Research</i> , <b>2017</b> , 41, 2576-2595	4.5	23
214	Interfacial charge transport behavior and thermal profiles of vertically oriented graphene-bridged supercapacitors (Phys. Status Solidi B 6/2017). <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1770232 <sup>1,3</sup>		
213	Improving fermentative hydrogen production from water hyacinth with genetically modified bacteria. <i>Environmental Progress and Sustainable Energy</i> , <b>2017</b> , 36, 1296-1300	2.5	5
212	Substrate Effects in Graphene-Based Electric Double-Layer Capacitors: The Pivotal Interplays between Ions and Solvents. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2966-2974	4.3	6
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210	A novel power generation system based on the cascade utilization of coal: concept and preliminary experimental results. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2017</b> , 39, 1955-1962	1.6	2
209	Fine particle migration and collection in a wet electrostatic precipitator. <i>Journal of the Air and Waste Management Association</i> , <b>2017</b> , 67, 498-506	2.4	27
208	Kinetic-Dominated Charging Mechanism within Representative Aqueous Electrolyte-based Electric Double-Layer Capacitors. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 3703-3710	6.4	28
207	Facile Preparation of Nickel Nanoparticle-Modified Carbon Nanotubes with Application as a Nonenzymatic Electrochemical Glucose Sensor. <i>Analytical Letters</i> , <b>2016</b> , 49, 568-578	2.2	9
206	Biodiesel production from wet microalgae by using graphene oxide as solid acid catalyst. <i>Bioresource Technology</i> , <b>2016</b> , 221, 344-349	11	73
205	Improving pollutants removal by microalgae Chlorella PY-ZU1 with 15% CO <sub>2</sub> from undiluted anaerobic digestion effluent of food wastes with ozonation pretreatment. <i>Bioresource Technology</i> , <b>2016</b> , 216, 273-9	11	41
204	Influences of Hydrothermal Modification on Nitrogen Thermal Conversion of Low-Rank Coals. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 8125-8133	4.1	7

203	Sulfur Behavior of Coal and Ash during Coal Pyrolysis Combined with Combustion. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 9589-9595	4.1	5
202	Comparison of Combustion and Emission Characteristics of an Indonesian Lignite Washery Tailing Slurry with a Bituminous Coal in a Bench-Scale Bubbling/Circulating Fluidized Bed Combustor. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 10835-10846	4.1	3
201	Conversion pathways of palm oil into jet biofuel catalyzed by mesoporous zeolites. <i>RSC Advances</i> , <b>2016</b> , 6, 103965-103972	3.7	10
200	Exploring the role of V <sub>2</sub> O <sub>5</sub> in the reactivity of NH <sub>4</sub> HSO <sub>4</sub> with NO on V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> SCR catalysts. <i>RSC Advances</i> , <b>2016</b> , 6, 102436-102443	3.7	17
199	Study on the slurring and rheological properties of coal millfield wastewater slurry. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2016</b> , 38, 3687-3693	1.6	6
198	Improving microalgal growth with small bubbles in a raceway pond with swing gas aerators. <i>Bioresource Technology</i> , <b>2016</b> , 216, 267-72	11	10
197	Gradient domestication of <i>Haematococcus pluvialis</i> mutant with 15% CO <sub>2</sub> to promote biomass growth and astaxanthin yield. <i>Bioresource Technology</i> , <b>2016</b> , 216, 340-4	11	32
196	Investigation of hybrid plasma-catalytic removal of acetone over CuO/Al <sub>2</sub> O <sub>3</sub> catalysts using response surface method. <i>Chemosphere</i> , <b>2016</b> , 155, 9-17	8.4	65
195	Investigation of the promotion effect of WO <sub>3</sub> on the decomposition and reactivity of NH <sub>4</sub> HSO <sub>4</sub> with NO on V <sub>2</sub> O <sub>5</sub> /WO <sub>3</sub> /TiO <sub>2</sub> SCR catalysts. <i>RSC Advances</i> , <b>2016</b> , 6, 55584-55592	3.7	31
194	Enhanced hydrogen production by methanol decomposition using a novel rotating gliding arc discharge plasma. <i>RSC Advances</i> , <b>2016</b> , 6, 12770-12781	3.7	30
193	Improving CO <sub>2</sub> fixation with microalgae by bubble breakage in raceway ponds with up-down chute baffles. <i>Bioresource Technology</i> , <b>2016</b> , 201, 174-81	11	26
192	Splitting of CO <sub>2</sub> via the Heterogeneous Oxidation of Zinc Powder in Thermochemical Cycles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 534-542	3.9	4
191	Effects of cytoplasm and reactant polarities on acid-catalyzed lipid transesterification in wet microalgal cells subjected to microwave irradiation. <i>Bioresource Technology</i> , <b>2016</b> , 200, 738-43	11	3
190	Improving microalgal growth with reduced diameters of aeration bubbles and enhanced mass transfer of solution in an oscillating flow field. <i>Bioresource Technology</i> , <b>2016</b> , 211, 429-34	11	23
189	Enhanced dark hydrogen fermentation by addition of ferric oxide nanoparticles using <i>Enterobacter aerogenes</i> . <i>Bioresource Technology</i> , <b>2016</b> , 207, 213-9	11	109
188	Measurement of water content and moisture distribution in sludge by 1H nuclear magnetic resonance spectroscopy. <i>Drying Technology</i> , <b>2016</b> , 34, 267-274	2.6	37
187	CO <sub>2</sub> Adsorption Performance of Ionic Liquid [P66614][2-Op] Loaded onto Molecular Sieve MCM-41 Compared to Pure Ionic Liquid in Biohythane/Pure CO <sub>2</sub> Atmospheres. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 3251-3256	4.1	26
186	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> , <b>2016</b> , 204, 49-54	11	69

185	Enhancing growth rate and lipid yield of <i>Chlorella</i> with nuclear irradiation under high salt and CO <sub>2</sub> stress. <i>Bioresource Technology</i> , <b>2016</b> , 203, 220-7	11	58
184	Improving CO <sub>2</sub> permeability of ceramic hollow fibre-supported composite membranes by blending an ionic liquid in the Pebax/PEGDME selective layer. <i>RSC Advances</i> , <b>2016</b> , 6, 2055-2064	3.7	16
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182	Identification of the reaction pathway and reactive species for the selective catalytic reduction of NO with NH <sub>3</sub> over cerium/bismuth oxide catalysts. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 2136-2142	5.5	35
181	Influence of Reactant Atmospheres and Temperature on Mechanism of Gasification of Coal Char Derived from Lignite. <i>Energy Technology</i> , <b>2016</b> , 4, 722-728	3.5	9
180	Study on CuO/TiO <sub>2</sub> /SiC catalysts in the sulfur/bidine cycle for hydrogen production. <i>International Journal of Energy Research</i> , <b>2016</b> , 40, 1062-1072	4.5	6
179	Enhancing hydrogen production of <i>Enterobacter aerogenes</i> by heterologous expression of hydrogenase genes originated from <i>Synechocystis</i> sp. <i>Bioresource Technology</i> , <b>2016</b> , 216, 976-80	11	12
178	Effects of Pyrolysis Atmosphere and Temperature on Coal Char Characteristics and Gasification Reactivity. <i>Energy Technology</i> , <b>2016</b> , 4, 543-550	3.5	21
177	Catalytic Oxidation of Dimethyl Sulfide Over Commercial V-W/Ti Catalysts: Plasma Activation at Low Temperatures. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 3379-3385	1.3	2
176	Solid-state NMR Study of Ion Adsorption and Charge Storage in Graphene Film Supercapacitor Electrodes. <i>Scientific Reports</i> , <b>2016</b> , 6, 39689	4.9	15
175	Gasification property of coal/wilfield wastewater slurry and microscopic mechanism analysis. <i>Petroleum Science and Technology</i> , <b>2016</b> , 34, 1068-1074	1.4	10
174	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> , <b>2016</b> , 211, 519-26	11	23
173	Edge effects in vertically-oriented graphene based electric double-layer capacitors. <i>Journal of Power Sources</i> , <b>2016</b> , 324, 309-316	8.9	62
172	Enhanced energy recovery from cassava ethanol wastewater through sequential dark hydrogen, photo hydrogen and methane fermentation combined with ammonium removal. <i>Bioresource Technology</i> , <b>2016</b> , 214, 686-691	11	31
171	Rotating Gliding Arc Assisted Water Splitting in Atmospheric Nitrogen. <i>Plasma Chemistry and Plasma Processing</i> , <b>2016</b> , 36, 813-834	3.6	21
170	Optimizing gas transfer to improve growth rate of <i>Haematococcus pluvialis</i> in a raceway pond with chute and oscillating baffles. <i>Bioresource Technology</i> , <b>2016</b> , 214, 276-283	11	6
169	The properties of Chinese typical brown coal water slurries. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2016</b> , 38, 1176-1182	1.6	6
168	The effect of microbubbles on gas-liquid mass transfer coefficient and degradation rate of COD in wastewater treatment. <i>Water Science and Technology</i> , <b>2016</b> , 73, 1969-77	2.2	21

167	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> , <b>2016</b> , 220, 352-359	11	28
166	Effects of torrefaction on hemicellulose structural characteristics and pyrolysis behaviors. <i>Bioresource Technology</i> , <b>2016</b> , 218, 1106-14	11	111
165	Developing a water-circulating column photobioreactor for microalgal growth with low energy consumption. <i>Bioresource Technology</i> , <b>2016</b> , 221, 492-497	11	15
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163	Screening the diatom <i>Nitzschia</i> sp. re-mutated by <sup>137</sup> Cs-irradiation and optimizing growth conditions to increase lipid productivity. <i>Journal of Applied Phycology</i> , <b>2015</b> , 27, 661-672	3.2	5
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161	Inhibitory effects of furan derivatives and phenolic compounds on dark hydrogen fermentation. <i>Bioresource Technology</i> , <b>2015</b> , 196, 250-5	11	68
160	Porous ceramic hollow fiber-supported Pebax/PEGDME composite membrane for CO <sub>2</sub> separation from biohythane. <i>RSC Advances</i> , <b>2015</b> , 5, 60453-60459	3.7	9
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158	Bimetallic cerium-copper nanoparticles embedded in ordered mesoporous carbons as effective catalysts for the selective catalytic reduction of NO with NH <sub>3</sub> . <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 456, 66-75	9.3	25
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154	Physicochemical characterization of wet microalgal cells disrupted with instant catapult steam explosion for lipid extraction. <i>Bioresource Technology</i> , <b>2015</b> , 191, 66-72	11	21
153	Pyrolytic characteristics of biodiesel prepared from lipids accumulated in diatom cells with growth regulation. <i>Journal of Bioscience and Bioengineering</i> , <b>2015</b> , 120, 161-6	3.3	4
152	Improving growth rate of microalgae in a 1191m <sup>2</sup> raceway pond to fix CO <sub>2</sub> from flue gas in a coal-fired power plant. <i>Bioresource Technology</i> , <b>2015</b> , 190, 235-41	11	60
151	Enhanced flashing light effect with up-down chute baffles to improve microalgal growth in a raceway pond. <i>Bioresource Technology</i> , <b>2015</b> , 190, 29-35	11	39
150	Note: Rapid reduction of graphene oxide paper by glow discharge plasma. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 056101	1.7	6

149	Temporal-spatial changes in viabilities and electrochemical properties of anode biofilms. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 5227-35	10.3	130
148	Subcritical water hydrolysis of rice straw for reducing sugar production with focus on degradation by-products and kinetic analysis. <i>Bioresource Technology</i> , <b>2015</b> , 186, 8-14	11	47
147	Controllable synthesis of novel hierarchical V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> nanofibers with improved acetone oxidation performance. <i>RSC Advances</i> , <b>2015</b> , 5, 30416-30424	3.7	23
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145	Conversion of waste cooking oil to jet biofuel with nickel-based mesoporous zeolite Y catalyst. <i>Bioresource Technology</i> , <b>2015</b> , 197, 289-94	11	78
144	Hydrogen production using amino acids obtained by protein degradation in waste biomass by combined dark- and photo-fermentation. <i>Bioresource Technology</i> , <b>2015</b> , 179, 13-19	11	46
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134	Covalently interconnected carbon nanotubes for enhanced charge transport in pseudocapacitors. <i>Physica Status Solidi (B): Basic Research</i> , <b>2015</b> , 252, 2236-2244	1.3	3
133	Simulation of a Lignite-Based Polygeneration System Coproducing Electricity and Tar with Carbon Capture. <i>Chemical Engineering and Technology</i> , <b>2015</b> , 38, 463-472	2	13
132	Factors Controlling High-temperature Zone Resistance to Airflow during Iron Ore Sintering. <i>ISIJ International</i> , <b>2015</b> , 55, 2556-2565	1.7	20

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130	Characterisation of water hyacinth with microwave-heated alkali pretreatment for enhanced enzymatic digestibility and hydrogen/methane fermentation. <i>Bioresource Technology</i> , <b>2015</b> , 182, 1-7	11	80
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117	Biodiesel from wet microalgae: extraction with hexane after the microwave-assisted transesterification of lipids. <i>Bioresource Technology</i> , <b>2014</b> , 170, 69-75	11	80
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