



Preliminary Conference Program (09/07/2024)

Thursday - Friday, September 19-20, 2024					
12:00 – 22:00	Technical Tour 1 Ningxia				
Saturday, September 21, 2024					
06:00 – 22:00	Technical Tour 2 Tengzhou				
Monday, September 23, 2024					
13:30 – 16:00	Technical Tour 3 Shanghai				
18:00 – 20:00	Registration & Welcome Reception, Ballroom Foyer				
Tuesday, September 24, 2024					
08:30 – 09:00	Registration, Poster & Exhibition, Ballroom Foyer				
09:00 – 10:30	Opening Ceremony Chair: Martin Gräbner Room: Ballroom B				
09:00 – 09:10	Welcome (Martin Gräbner, TU Bergakademie Freiberg – Germany)				
09:10 – 09:20	Welcome (tbc, East China University of Science & Technology – China)				
09:20 – 09:30	Welcome (tbc, Synfuels China Technology Co., Ltd. – China)				
09:30 – 09:40	Welcome (Yitian Fang, Institute of Coal Chemistry, Chinese Academy of Sciences-State Key Laboratory of Coal Conversion – China)				
09:40 – 09:55	Martin Gräbner (TU Bergakademie Freiberg – Germany)				
09:55 – 10:10	Transformation towards green chemistry: Case study of waste gasification for methanol production in China (Roh Pin Lee, Chair of Decarbonization and Transformation of Industry, Brandenburg University of Technology Cottbus-Senftenberg – Germany)				
10:10 – 10:20	Conference Organization Information (Roh Pin Lee, TU Bergakademie Freiberg – Germany)				
10:20 – 10:30	Group Picture				
10:30 – 11:00	Coffee Break				
11:00 – 12:40	Session 1: Industrial gasification technologies Chair: Martin Gräbner Room: Ballroom B	Session 2: TEA and LCA I Chair: Roh Pin Lee Room: Ballroom A	Session 3: CCS and CCUS Chair: Aleksander Sobolewski Room: Ballroom C		
11:00 – 11:20	01-1 R-GASTM gasification technology - a gasification technology	02-1 Renewable olefins from biomass gasification: MTO or FTO (Yan Cheng, BASF	03-1	Can coal have a future as a low/near zero carbon resource supplier?	

		suitable for high ash content and high ash flow temperature coals (Johan van Dyk, GTI Energy – United States)		Advanced Chemical Co., Ltd. – China)		(Andrew Minchener, International Centre for Sustainable Carbon – United Kingdom)
11:20 – 11:40	01-2	Biomass: a world to win (Robin Post van der Burg, Torrgas – Netherlands)	02-2	Electrification of gasification-based chemical recycling process chains: techno-economic assessment (Antonia Helf, TU Bergakademie Freiberg – Germany)	03-2	Carbon capture: efficiency from an entire system perspective (Franz Sebastian Krüger, Robert Bosch Manufacturing Solutions GmbH – Germany)
11:40 – 12:00	01-3	A technical evaluation through demonstration trial of high temperature slagging gasification conversion of sewage sludge and the application of sludge-derived slag as a sustainable construction aggregate in concrete (Wei Ping Chan, Nanyang Technological University – Singapore)	02-3	Techno-economic assessment of plasma-assisted entrained flow gasification for thermochemical recycling of municipal solid waste (Sebastian Bastek, TU Munich – Germany)	03-3	Status of CCS and CCUS in Romania (Sorin Anghel, The National Research-Development Institute for Marine Geology and Geoecology – Romania)
12:00 – 12:20	01-4	CHOREN entrained flow gasification – update of technology and projects (Manuel Kordese, CHOREN Industrietechnik GmbH – Germany)	02-4	Sorption enhanced chemical looping gasification for H ₂ and transportation fuel production (Bilainu Oboirien, University of Johannesburg – South Africa)	03-4	Direct air CO ₂ capture by amine functionalized resin adsorbent under simulated humid air conditions: experimental and theoretical insights (Guopei Zhang, Shihezi University – China)
12:20 – 12:40	01-5	Determining correlations for the hydrodynamics of bubbling fluidized beds using CFD & ANNs (Ravi Ramesh, TU Delft – Netherlands)	02-5	An assessment framework on emission of pollutants from point source within an urban canopy: Singapore case study of decentralized pyrolysis unit (Genevieve Soon, Nanyang Technological University – Singapore)	03-5	Experimental study on the formation process of CO ₂ hydrate in TBAB-SDS (Yuchen Wu, East China University of Science and Technology – China)
12:40 – 13:40	Lunch					
13:40 – 15:00	Session 4: Entrained flow investigations Chair: Guangsuo Yu Room: Ballroom B		Session 5: TEA and LCA II Chair: Andrew Minchener Room: Ballroom A		Session 6: Mineral matter I Chair: Stefan Guhl Room: Ballroom C	
13:40 – 14:00	04-1	Comprehensive particle behaviors in an impinging entrained-flow gasifier: from atomization to deposition (Yan Gong,	05-1	STEEP online tool: CO ₂ reduction through waste pyrolysis and gasification compared to incineration and petrochemicals (Roh Pin Lee, Brandenburg	06-1	Investigations on chemical hot gas cleaning of alkali, chlorine and sulphur species in a sorption-enhanced biomass gasification process

		East China University of Science and Technology – China)		University of Technology Cottbus-Senftenberg – Germany)		(Michael Müller, Forschungszentrum Jülich – Germany)
14:00 – 14:20	04-2	Study on physicochemical properties, distribution modes and formation mechanism of coal gasification fine slag in an industrial entrained-flow gasifier (Bin Liu, Ningxia University – China)	05-2	Life cycle greenhouse gas emission assessment of pyrolysis-based chemical recycling of post-consumer waste: focus on feedstock composition, oil processing and balancing consistency (Katina Krell, TU Bergakademie Freiberg – Germany)	06-2	Crystallization-controlled fusion mechanism of the amorphous fly ash from the Shell coal gasifier by particle sieving (Xiaoming Li, Taiyuan University of Science and Technology – China)
14:20 – 14:40	04-3	Chemical and physical behaviors of carbonaceous particles on high-temperature liquid surface (Zhongjie Shen, East China University of Science and Technology – China)	05-3	A life cycle assessment (LCA) of high temperature slagging gasification conversion of sewage sludge and sludge-derived slag as an alternative material for sustainable construction (Sofea Al Munawarah Binte Yusoff, Nanyang Technological University – Singapore)	06-3	The crystallization pathway and kinetics of three common minerals in slag under gasification condition (Hao Lu, Institute of Coal Chemistry, Chinese Academy of Sciences – China)
14:40 – 15:00	04-4	Innovative probe design for enhanced burner flame analysis in gasification processes: a case study of interdisciplinary engineering solutions (Wei Fu, TU Bergakademie Freiberg – Germany)	05-4	Decarbonization of a district heating system – a case study for a city with 100,000 inhabitants (Tomasz Iluk, Institute of Energy and Fuel Processing Technology – Poland)	06-4	Promising combination of thermodynamic database and machine learning in predicting slag properties (Guixuan Wu, Institute of Coal Chemistry, Chinese Academy of Sciences – China)
15:00 – 15:30	Coffee Break					
15:30 – 16:50	Session 7: Fluidized bed gasification Chair: Johan van Dyk Room: Ballroom B		Session 8: Waste and Co-pyrolysis Chair: Grzegorz Lisak Room: Ballroom A		Session 9: Gasification modeling studies Chair: Andreas Richter Room: Ballroom C	
15:30 – 15:50	07-1	Pilot-scale study of wastewood and RDF co-gasification in HTW® 2.0 gasifier (Alireza Mohammadi, GIDARA ENERGY – Netherlands and Bernd Epple, TU Darmstadt – Germany)	08-1	Basic investigations into the material and energetic using of GRP (Stefan Thiel, DBI-Virtuhcon GmbH – Germany)	09-1	Analysis of carbon emission reduction in coal chemical processes through full-time scale multi-objective optimization model coupling green power and green hydrogen (Ye Li, CHN Energy Economic and Technological Research Institute – China)
15:50 – 16:10	07-2	Recent advancements in U-GAS® technology for a	08-2	Thermochemical conversion of wind turbine	09-2	Fixed-bed gasification modeling for automotive

		circular and low carbon economy (Bo Li, GTI Energy – United States)		blade waste: Mapping of the kinetic parameters and heat transfer (Markus Reinmöller, Technical University of Denmark – Denmark)		shredder residues (Xiushan Tian, BASF Advanced Chemicals Co., Ltd. – China)
16:10 – 16:30	07-3	From cashew nut shells to synthesis gas – operation of a 1 MW dual fluidized bed steam gasifier and downstream gas cleaning units (Daniel Hochstätger, BEST - Bioenergy and Sustainable Technologies GmbH – Austria)	08-3	Co-pyrolysis of lignite and waste plastic: products distribution, hydrogen transfer route and redistribution characteristics (Song Cao, East China University of Science and Technology – China)	09-3	Dynamic characteristics analysis of gas temperature, heat duty, and slag behavior in an IGCC coal gasifier in response to changes in the oxidant/coal ratio (Joonyeong Nam, Sungkyunkwan University – Republic of Korea)
16:30 – 16:50	07-4	Enhancing low-carbon utilization pathways through biomass gasification in fluidized beds: a CFD study (Shuai Wang, Zhejiang University – China)	08-4	Novel Insight into co-pyrolysis interaction of Naomaohu coal and waste tire under varied mixing configurations via in-situ Py-TOF-MS (Wenqing Lv, Dalian University of Technology – China)	09-4	Data reconciliation and analysis of a high pressure pulverized coal gasification plant (Yan Zhang, University of Science and Technology Beijing – China)
18:00 – 22:00	Conference Dinner, Radisson Blu Hotel Shanghai New World					
Wednesday, September 25, 2024						
09:00 – 10:20	Plenary Session 1: Technology innovation in industry Chair: Martin Gräbner Room: Ballroom B					
09:00 – 09:20	Keynote by Fuchen Wang, East China University of Science and Technology – China					
09:20 – 09:40	Resource-Efficient Utilization: A New Chapter in HT-L Pressurized Coal Gasification Technology (Zhihong Ge, Changzheng Engineering Co., Limited – China)					
09:40 – 10:00	Establishment and Development of Sinopec’s High Temperature Gasification Platform (Kang Wanzhong, SINOPEC Ningbo Engineering Co. Ltd. – China)					
10:00 – 10:20	Improvement of Octane Number in FCC Gasoline Through the Extraction with Urea/Thiourea Complex based on Property Analysis (Lin Gao, Synfuels China Technology Co., Ltd. – China)					
10:20 – 10:50	Coffee Break					
10:50 – 12:30	Session 10: Plasma-enhanced conversion Chair: Markus Reinmöller Room: Ballroom B		Session 11: Tar reduction of product gas Chair: Yang Yong Room: Ballroom A		Session 12: Kinetics Chair: Qi Chen Room: Ballroom C	
10:50 – 11:10	10-1	High-performance electrode materials for industrial plasma torches: overcoming the challenges of arc erosion (Felix Baitalow, TU Bergakademie Freiberg – Germany)	11-1	MW plasma technology for gas upgrading (Anton Serov, TU Bergakademie Freiberg – Germany)	12-1	Enabling waste-to-X pathways: a comprehensive analysis of the entrained-flow gasification kinetics of biogenic residues under industrial conditions

						(Weiss Naim, TU of Munich – Germany)
11:10 – 11:30	10-2	Fixed bed gasification with steam plasma integration (Ronny Schimpke, TU Bergakademie Freiberg – Germany)	11-2	Catalytic steam reforming of tar and methane at high pressure for H ₂ production (Chunguang Zhou, KTH Royal Institute of Technology – Sweden)	12-2	Illustrating the effect of physicochemical properties within vitrinite and inertinite on residual carbon formation in drop tube furnace (Yonghui Bai, Ningxia University – China)
11:30 – 11:50	10-3	The biogeniV alliance & plasma-assisted solutions for conversion of biogenic residues to green fuels & valuable materials (Stefan Klebingat, Leibniz Institute for Plasma Science and Technology – Germany)	11-3	Catalytic upgrading of coal pyrolysis volatiles over acid-base bifunctional carbon composite (Qian Wang, Taiyuan University of Technology – China)	12-3	Kinetic investigation of gasification of alternative carbon sources considering CO inhibition using TGA (Stefan Guhl, TU Bergakademie Freiberg – Germany)
11:50 – 12:10	10-4	Model-based investigation of fluid dynamics and temperature distribution in an atmospheric microwave discharge (Sophie Rodmacher, TU Bergakademie Freiberg – Germany)	11-4	Reduction of tars in fluidized bed gasification – parameter study in a lab-scale reactor and comparison to pilot tests (Fabiola Panitz, TU Darmstadt – Germany)	12-4	Interactions of the single and binary catalysts with ashless coal in CO ₂ atmosphere (Xingjun Wang, East China University of Science and Technology – China)
12:10 – 12:30	10-5	CFD Modeling of allothermal plasma-assisted entrained flow gasification (Sebastian Wilhelm, TU Munich – Germany)	11-5	Catalyst upgrading of biomass pyrolysis volatile over zeolite/carbon catalysts prepared from coal based solid waste (Peng Lv, Ningxia University – China)	12-5	Detailed mass transfer study of the conversion process in a TGA: from single particle to packed bed using non-porous reactor graphite (Fengbo An, TU Bergakademie Freiberg – Germany)
12:30 – 13:30	Lunch					
13:30 – 15:10	Session 13: CH₄ and HC cracking Chair: Ludwig Seidl Room: Ballroom B		Session 14: Biomass pyrolysis and product upgrading Chair: Robin Post van der Burg Room: Ballroom A		Session 15: Mineral matter II Chair: Michael Müller Room: Ballroom C	
13:30 – 13:50	13-1	Advanced power electronics driving plasma-based methane pyrolysis (Casten Winnewisser, TRUMPF Hüttinger – Germany)	14-1	Pyrolysis characteristics of biomass derived C1-C6 mixed alcohols to olefins (Liu Guangxuan, Xinjiang University – China)	15-1	Immobilization behavior and mechanism of heavy metals during thermal treatment of MSWI fly ash (Jin Bai, Chinese Academy of Sciences – China)
13:50 – 14:10	13-2	Turquoise H ₂ production from thermal methane cracking: an experimental and kinetic modelling study with focus on carbon product	14-2	Atom-doped Ni/ZrO ₂ as the catalyst for modulating the hydrodeoxygenation of methyl palmitate (Changhai Liang, Dalian	15-2	Application of ETV-ICP OES for fast multielement characterization and in situ measurement of element mobilization in simulated process gas atmospheres

		morphology (Matteo Pelucchi, Politecnico di Milano – Italy)		University of Technology – China)		(Teres Pietschner, TU Bergakademie Freiberg – Germany)
14:10 – 14:30	13-3	Methane cracking in molten media for turquoise H ₂ : the role of the produced carbon (Benedetta de Caprariis, Sapienza University – Italy)	14-3	CHAR:ME - Biochar and biomass-derived waste products as sustainable and safe domestic fuel (Riccardo Caraccio, Politecnico di Milano – Italy)	15-3	Retention mechanism of potassium in biomass by kaolin addition in the slagging and non-slagging gasification condition (Chong He, Taiyuan University of Technology – China)
14:30 – 14:50	13-4	Study on the properties and carbon black generation of oily sludge, hydrocracking tail oil and water mixture (Song Yang, Xinjiang University – China)	14-4	Effects of SiO ₂ /CaO on gas-solid interactions during the fast pyrolysis of cellulose pellets (Chang Zhang, East China University of Science and Technology – China)	15-4	In-situ Study of the Effect of Potassium Release on ash sintering behavior during the Co-gasification of coal and biomass (Chaoyue Zhao, Ningxia University – China)
14:50 – 15:10	13-5	tbc	14-5	Effect of Van Soest method on pyrolysis characteristics of BSG and mechanism of tar generation and transformation (Pengbo Liu, East China University of Science and Technology – China)	15-5	In-situ release detection and mechanism of alkali metals during coal and biomass co-pyrolysis/gasification (Jiaofei Wang, Ningxia University – China)
15:10 – 15:40	Coffee Break					
15:40 – 17:20	Session 16: Concept studies Chair: Alexander Rösch Room: Ballroom B		Session 17: Conversion of plastics Chair: Markus Weber Room: Ballroom A		Session 18: Mineral matter III Chair: Jin Bai Room: Ballroom C	
15:40 – 16:00	16-1	A decentralized waste management strategy for resource recovery and carbon sequestration through the deployment of thermo-disintegration waste to resource (TDWR) system (Grzegorz Lisak, Nanyang Technological University – Singapore)	17-1	Application breakthrough of waste plastic pyrolysis (Carlson Li, Sulzer Shanghai Engineering & Machinery Works Ltd.– China)	18-1	Rheological properties of molten slag in entrained flow co-gasification of coal and other feedstocks (Xudong Song, Ningxia University – China)
16:00 – 16:20	16-2	Two-staged hydrothermal pre-treatment of food waste for anaerobic digestion: enhancement and optimization of methane production (Lu Ding, East China University of	17-2	Chemical recycling of engineering plastics by pyrolysis (Philipp Rathsack, Fraunhofer IKTS – Germany)	18-2	Effect of residual carbon on the flow properties of iron-containing coal ash and its modification mechanisms (Wei Zhao, Ningxia University – China)

		Science and Technology – China)				
16:20 – 16:40	16-3	Syngas - the key to unlock the recarbonization of industry (Qi Chen, Chiron Energy Solutions – Netherlands)	17-3	Secondary gas-phase reactions of polyethylene pyrolysis: semi-detailed kinetics (Alessandro Pegurri, Politecnico di Milano – Italy)	18-3	Investigating the ash fusion characteristics and mineral transformations of biomass and coal ashes at high temperature (Jie Xu, Qingdao Agricultural University – China)
16:40 – 17:00	16-4	Biogas as a renewable carbon carrier for the chemical industry (Stefan Thiel, DBI-Virtuhcon GmbH, Germany – Germany)	17-4	Hydrothermal co-liquefaction of PET and invasive species for monomer production, biofuels and bio-asphalt applications (Luis Cutz, TU Delft – Netherlands)	18-4	Coal ash melting thermal kinetics (Wenju Shi, China University of Mining and Technology – China)
17:00 – 17:20	16-5	Future for hard coal in Poland under “Fit for 55 conditions” (Aleksander Sobolewski, Institute of Energy and Fuel Processing Technology – Poland)	17-5	Co-pyrolysis effect of PVC and waste tires: Migration characteristics of chlorine and sulfur during staged pyrolysis (Yue Sheng, East China University of Science and Technology – China)	18-5	Effect of Ca catalysts on mineral conversion and trace element migration in coal gasification process (Xingjun Wang, East China University of Science and Technology – China)
17:20 – 19:00	Poster Reception, Ballroom Foyer					

Thursday, September 26, 2024

09:00 – 09:40	Plenary Session 2: Transformation strategies towards sustainability Chair: Martin Gräbner Room: Ballroom B					
09:00 – 09:20	Keynote by National Institute of Clean and Low-Carbon Energy – China					
09:20 – 09:40	Keynote by Yulin City – China					
09:40 – 10:10	Coffee Break					
10:10 – 11:50	Session 19: Partial oxidation Chair: Qinghua Guo Room: Ballroom B		Session 20: Valuable products from coal Chair: Kang Wanzhong Room: Ballroom A		Session 21: Chemical looping Chair: Bernd Epple Room: Ballroom C	
10:10 – 10:30	19-1	Project update SCOORE: synthesis gas from recycling of CO ₂ (Simon Wachter, BASF SE – Germany)	20-1	Coal hydrogasification for methane and aromatics technology development and industrialization (Liang Zeng, ENN Science & Technology Development Co., Ltd. – China)	21-1	The application of selected ferrites for biomass chemical looping combustion (Ewelina Ksepko, Wroclaw University of Science and Technology – Poland)
10:30 – 10:50	19-2	PyroPOX: A Reliable Pathway for the Conversion of Municipal Solid Waste to Cost-	20-2	Advancing sustainable indium extraction from coal and its byproducts (Zaixing Huang, China	21-2	Chemical looping gasification of biomass pyrolysis volatiles for hydrogen rich syngas production (Yalkunjan

		Competitive Low-Carbon Fuels and Chemicals (Bo Li, GTI Energy - United States)		University of Mining and Technology – China)		Tursun, Xinjiang University – China)
10:50 – 11:10	19-3	Options and pathways towards climate neutrality in chemical industry (Elena Marras, Air Liquide Innovation Campus Frankfurt – Germany)	20-3	Synthesis, characterization and catalytic performance of a novel and efficient iron-based catalyst NaFeS ₂ for direct coal liquefaction (Rui Zhang, Dalian University of Technology – China)	21-3	Syngas generation from microalgae through chemical looping gasification – primary results from an EU Marie-Curie project (Daofeng Mei, Instituto de Carboquímica – Spain)
11:10 – 11:30	19-4	Development of a Detailed CFD Model for High-Pressure Partial Oxidation using Large-Eddy-Simulation (Lukas Etzold, IEC, TU Bergakademie Freiberg – Germany)	20-4	Production of lump coke from stamped low-ranked coals and biogenic residues (Franz Fehse, TU Bergakademie Freiberg – Germany)	21-4	tbc
11:30 – 12:30	Lunch					
12:30 – 14:10	Session 22: CO₂ as feedstock Chair: Cheng Jihong Room: Ballroom B		Session 23: Coal pyrolysis Chair: Haoquan Hu Room: Ballroom A		Session 24: Alternative H₂ production and integration Chair: Felix Baitalow Room: Ballroom C	
12:30 – 12:50	22-1	Leading the way: Air Liquide's Lurgi methanol technology is unlocking solutions to decarbonize carbon intensive industries (Alexander Rösch, Air Liquide Global E&C Solutions – Germany)	23-1	Experimental study on the effect of pyrolysis conditions on pyrolysis-gasification decoupling characteristics of Yili coal (Haigang Zhang, East China University of Science and Technology – China)	24-1	Hydrogen production from refuse derived fuel (RDF) in a novel borehole gasification process combined with advanced gas separation - project HydroMine (Krzysztof Kapusta, Central Mining Institute – Poland)
12:50 – 13:10	22-2	The robust three-dimensional macroporous iron-foam catalyst for direct conversion of CO ₂ to olefins (Yi Liu, National Institute of Clean-and-Low-Carbon Energy – China)	23-2	Modeling Pore Structure Evolution during Coal Pyrolysis (He Yang, Dalian University of Technology – China)	24-2	Research on a low-carbon hydrogen production technology - aqueous phase reforming (Baiyang Lin, Air Liquide Innovation Campus Shanghai – China)
13:10 – 13:30	22-3	First operation experience of a methanol demonstration plant with steel mill gas-es (Tim Schulzke, Fraunhofer UMSICHT – Germany)	23-3	Migrating and transformation behavior of sulfur and nitrogen during the rapid pyrolysis of coals (Keke Zhao, Taiyuan University of Technology – China)	24-3	Modeling and integration of the renewable hydrogen value chain using the example of the Fraunhofer Hydrogen Lab Görlitz (Maciej Satora, Fraunhofer IWU – Germany)

13:30 – 13:50	22-4	Cu ⁰ at the Cu/ZnO interface efficiently accelerate CO ₂ hydrogenation to methanol on Cu/ZnO modified by phosphorus doped carbon (Xinyu Wei, Ningxia University – China)	23-4	Synthetical analysis of the influence of coalification degree on the tar formation mechanism (Weixiang Zhang, Xinjiang University – China)	24-4	Simulation on hydrogen production from biomass gasification by Aspen Plus (Juntao Wei, Nanjing Forestry University – China)
13:50 – 14:10	22-5	Carbon coated In ₂ O ₃ hollow tubes embedded with ultra-low content ZnO quantum dots as catalysts for CO ₂ hydrogenation to methanol (Weiguang Su, Ningxia University – China)	23-5	CO ₂ enhanced tar-rich coal pyrolysis to produce high quality tar and CO-rich gas (Duoer Yang, Beijing University of Technology – China)	24-5	tbc
14:10 – 14:30	Closing Ceremony (Martin Gräbner, TU Bergakademie Freiberg – Germany) Room: Ballroom B					
Poster Session Program, Ballroom Foyer						
Poster 01	Optimization of electrolysis: use of the by-products waste heat and oxygen to increase profitability (Laura Thiel, Fraunhofer IWU – Germany)					
Poster 02	Key-catalyst research on the Sustainable CO ₂ as feed for the production of renewable methanol (Xiaoying Xu, National Institute of Clean-and-Low Carbon Energy – China)					
Poster 03	Study on the migration and transformation of sulfur and mercury during pyrolysis of medium and low rank coal (Caixia Yue, Taiyuan University of Technology – China)					
Poster 04	Investigations on the interaction mechanisms of hydrogen donor and non-hydrogen donor on hydrogenation behaviors of asphaltene (Yuanlin Zhang, East China University of Science and Technology – China)					
Poster 05	Modification of USY by leaching and Zr, Ni loading for upgrading pyrolysis volatiles from coal tar residue (Jie Luo, Xinjiang University – China)					
Poster 06	Analysis of fragmentation mechanisms and influencing factors of two-component water-based composite droplet and mixed droplet (Yang Han, East China University of Science and Technology – China)					
Poster 07	Distribution and migration pathways of phosphorus and nitrogen during hydrothermal processing of municipal sewage sludge for biofuel production (Krzysztof Kapusta, Central Mining Institute – Poland)					
Poster 08	Kinetics of redox reactions of Fe spinel-based materials for energy generation processes (Ewelina Ksepko, Wroclaw University of Science and Technology – Poland)					
Poster 09	Research progress of NICE on biomass waste to sustainable fuels (Xin Huang, National Institute of Clean-and-Low Carbon Energy – China)					
Poster 10	Numerical study on the sedimentation characteristics of single/binary particle-supercritical water systems in confined space (Huibo Wang, Xian Jiaotong University – China)					
Poster 11	Organic petrographical, mineralogical properties and depositional environment of the Eskisehir Coal Basin in Western Anatolia (Ilker Senguler, YILDIRIM Group of Companies / YILMADEN Holding – Turkey)					
Poster 12	Conversion of syngas to high-melting wax (Ruonan He, National Institute of Clean-and-Low Carbon Energy – China)					
Poster 13	Chemical recycling of plastics through chemical looping technology (Daofeng Mei, Instituto de Carboquímica – Spain)					
Poster 14	Preliminary characterization of carbon materials produced by methane pyrolysis in a tubular quartz reactor (Emmanuel Busillo, Sapienza University of Rome – Italy)					
Poster 15	Identification of coal characteristics from Near-infrared spectra: machine learning predictions and experimental validations (Haiquan An, National Institute of Clean and Low-Carbon Energy - China)					
Poster 16	A Brief Introduction to Shaanxi Coal and Chemical Technology Research Institute Co., Ltd. (Shenjun Zhang, Shaanxi Coal and Chemical Technology Research Institute Co., Ltd. – China)					

Poster 17	Migration law of fluorine element during coal pyrolysis (Lingmei Zhou, China University of Mining and Technology – China)
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