

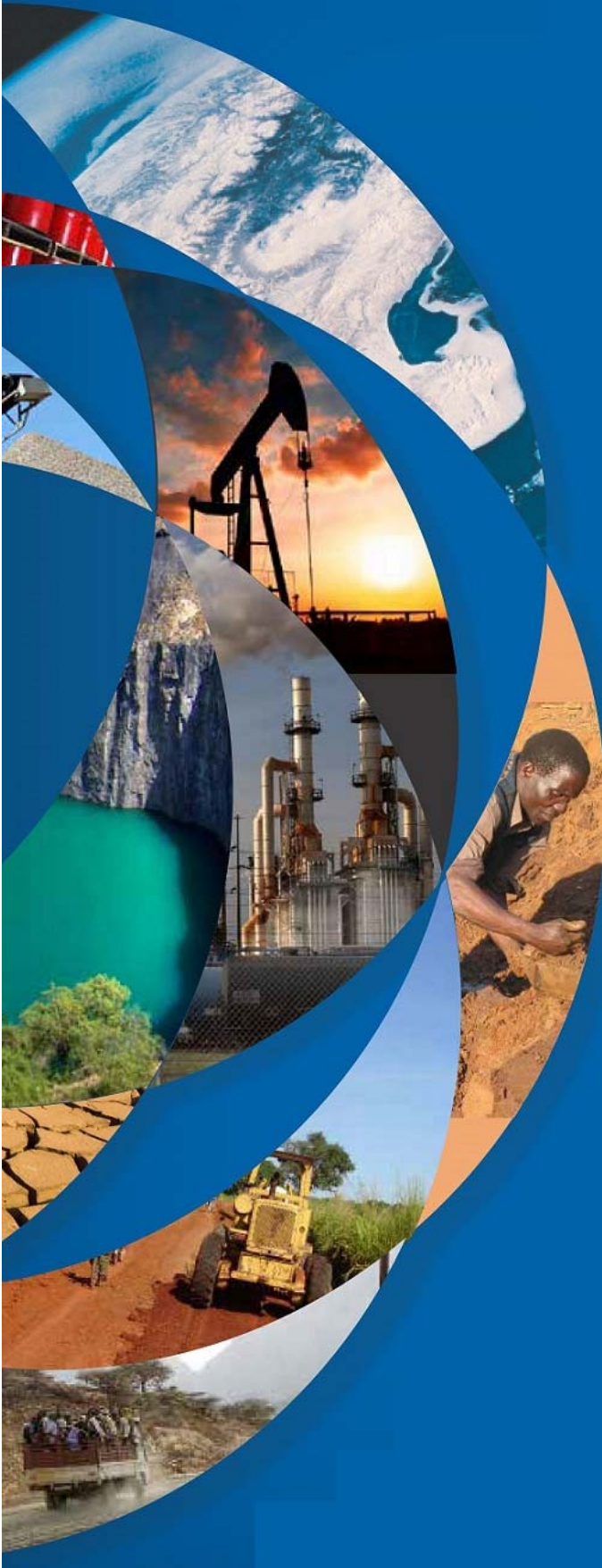
icRS 2018

2018 International Conference on Resource Sustainability

June 27-29, 2018

Beijing Normal University
Beijing, China

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- Zhifeng Yang, Beijing Normal University
- Tiejong Zuo, Beijing University of Technology

Program

Tuesday, June 26, 2018

14:00-17:00	Registration (Jingshi Hotel, Lobby)
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Wednesday, June 27, 2018

7:00-18:00	Registration (Yingdong Conference Hall morning; Jingshi Hotel 3 rd Floor afternoon)
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Plenary Session (Yingdong Conference Hall)

8:30-8:35	Greetings	Lixiao Zhang, Conference Co-Chair
8:35-8:45	Welcome	Zhifeng Yang Member of Chinese Academy of Engineering Professor and former Dean, School of Environment, Beijing Normal University
8:45-9:00	Introduction of the conference and keynote speaker	Ming Xu, Conference Chair
9:00-9:40	Keynote Speech	Challenges of sustainable (mineral) resources management and circular economics: What we can learn from the case of phosphorus Roland Scholz ETH Zurich, Danube University of Krems, Fraunhofer Institute for Interfacial Engineering and Biotechnology (IGB)
9:40-10:00	Break	
	Introduction of keynote speakers	Junbeum Kim, Conference Co-Chair
10:00-10:40	Keynote Speech	Meeting our material services within planetary boundaries: the case for resource efficiency Ernst Worrell Utrecht University
10:40-11:20	Keynote Speech	Ecological Risks of Emerging Pollutants Coupled with Industrial Transformation Yonglong Lu Chinese Academy of Sciences – Research Center for Eco-Environmental Sciences (RCEES)

11:30-13:00	Lunch (Xibei Canteen)
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Parallel Sessions (Jingshi Hotel)

	Conference Rm. 1 (3 rd Floor)	Conference Rm. 2 (3 rd Floor)	Conference Rm. 5 (3 rd Floor)	Conference Rm. 6 (3 rd Floor)	Multifunction B (2 nd Floor)
	Environmental Behavior 1	Air Resources	Transportation Systems 1	Recycling 1	Material Systems 1
Chair	Maria Carmela Aprile	Hongliang Zhang Lei Huang	Hyung Chul Kim	Aya Yoshida	Heming Wang
13:00-13:15	Circular economy and behaviour change: using persuasive communication to encourage pro-circular behaviours towards the purchase of remanufactured refrigeration equipment	Optimization of a negative-ion-based quiet particulate matter removal module for indoor environment: ozone emission and particle removal	The dynamic equilibrium mechanism of regional lithium flow in the case of transport electrification	Sailing towards a circular economy: potential for increased reuse and remanufacturing of ship components	Comprehensive PVC material flow analysis and its environmental impact assessment in China
	Zaneta Muranko, Deborah Andrews, Issa Chaer and Elizabeth J. Newton	Xunan Huang, Jiaxue Hao, Bo Liu, Wenhua Xu, Hongliang Zhang, Guohua Wang, Xiaojing Zheng and Guang Jia	Xin Sun and Han Hao	Leonidas Milios and Katherine Whalen	Yijie Liu, Chuanbin Zhou and Feng Li

13:15-13:30	A naturalistic decision making study on the effectiveness of Ecolabels in inform sustainable consumption	Projected air quality benefits from policy interventions in India	Open-loop supply chains for automotive remanufacturing	End of life of wind energy systems: a regional case study	Pathway of subway development and construction materials stock in Chinese cities
	Li Song and Hua Cai	Kaiyu Chen, Hao Guo and Hongliang Zhang	Steven Young and Matthias Kalverkamp	Nacef Tazi, Junbeum Kim, Youcef Bouzidi, Eric Châtelet and Gang Liu	Ruichang Mao, Gang Liu and Huabo Duan
13:30-13:45	What makes consumers in the UK and Germany choose the ethical alternative of a food item - genuine concern or warm glow?	Simulation and analysis of co-benefit of carbon dioxide and air pollutant emission reductions by the air pollution prevention and control action plan in the Beijing-Tianjin-Hebei region of China	Empirical analysis of national power portfolio for positive environmental implications of electric vehicles	Revealing the environmental benefit of recyclable waste recycling	Quantifying multilevel anthropogenic resources using a hybrid material stock analysis: a case study of buildings in Taiwan
	Sarah Iweala and Stephan Meyerding	Jianlin Hu, Zhenyu Lu and Mindong Chen	Solhee Kim, Chanhoon Jung, Chanwoo Kim, Paul Shin, Yooan Kim and Kyo Suh	Huijuan Dong	Kuang-Ly Cheng, Shu-Chien Hsu, Cathy Chang-Wei Hung, Pi-Cheng Chen and Hwong-Wen Ma
13:45-14:00	Analysis of factors driving climate adaptation behaviour based on an extended protection motivation theory model	A comparison of public risk perception, exposure level and WTP/WTA of PM2.5 during the Youth Olympics	Life cycle inventories of the cradle-to-gate stage of the materials for lithium batteries in China	Status of solid waste trade in China	Urbanisation processes as key for analysing and forecasting construction materials flows: Paris region case study
	Yuandong Zhao, Bin Zhang, Haitao Chen, Bo Wang and Zhaohua Wang	Lei Huang, Jie Li and Chao Rao	Renshu Renshu, Shuhan Hu and Yang Yang	Zijie Ma and Weiqiang Chen	Vincent Augiseau and Sabine Barles
14:00-14:15	Locus of control: motivating pro-environmental behavior in China	Technical efficiencies and marginal abatement costs of industrial sulfur dioxide emissions in urban China	Raw material requirements and availability for lithium-ion batteries under different technological developments	Life cycle costing of construction and demolition waste recycling for cost-effectively building retrofits: a case study in the Netherlands	Profiles of in-use wastewater treatment infrastructure stocks in Chinese national industrial parks
	Xisi Yang, Anja Buerke and Anna-Katharina Jäger	Zengyao Zhao, Qunwei Wang, Yizhong Wang and Ye Hang	Simon Davidsson	Chunbo Zhang, Mingming Hu, Liang Dong and Arnold Tukker	Wanqiu Hu, Jinping Tian and Lujun Chen
14:15-14:30	How environmental practices and communication influence guest loyalty? a survey study about the European Ecolabel in Italian hotels	Using artificial neural networks to simulate and predict PM2.5	Life cycle environmental impacts of light duty electric vehicles	A novel framework to consequential life-cycle assessment to evaluate the effect of paper recovery and recycling	The dynamics of household appliances in urban dwellings: a spatial explicit analysis in Beijing, China
	Roberto Merli, Alessia Acampora and Michele Preziosi	Yi-Shin Wang, Che-Chia Kang, I-Feng Kao and Fi-John Chang	Sadanand Wachche, Mark T. Lozano, Hanjiro Ambrose, Alissa Kendall and Lew Fulton	Jiyoun Chang and Elsa Olivetti	Yupeng Liu, Wei-Qiang Chen and Jiajia Li
14:30-14:45	Break				
	Conference Rm. 1 (3 rd Floor)	Conference Rm. 2 (3 rd Floor)	Conference Rm. 5 (3 rd Floor)	Conference Rm. 6 (3 rd Floor)	Multifunction B (2 nd Floor)
	Climate Mitigation 1	Regional Resources Management	Metals	Energy Systems 1	Food Systems
Chair	Zhifu Mi	Rui Marques	Marlene Arens	Simon Davidsson	Joshua P. Newell

14:45-15:00	Temporal evolution of nitrous oxide production and emission in China: assessment, strategy and recommendation	Intra-and intergenerational equity based equilibrium approach towards sustainable water resource management	Products and metal stock accumulation and socio-economic drivers of Chinese megacities: a bottom-up analysis	Impacts of coal-fired power plant retrofits on wind power integration and pollution mitigation: a case study of Jilin Province in China	Climate change effect on China's rice production, trade and self-sufficiency: a comparison between PE and GE in GTAP model
	Zhibo Luo and Shanying Hu	Liming Yao and Shuhua Hou	Qiance Liu, Zhi Cao and Gang Liu	Mengjia Ren, Xu Jiang and Jiahai Yuan	Xuebiao Zhang, Yu Liu, Xiaohong Hu, Qiaoling Shi and Chao Zhong
15:00-15:15	Life cycle assessment of cement production with carbon capture and storage technology	Using industrial ecology to promote regional sustainable development	Examining metal sustainability and its implications in China – a critical review	How biomass can be applied as reliable energy for power generation: a case study of Nova Scotia Power in Canada	Where has all the rice gone in China? change in supply and demand balance and flow analysis of rice in China
	Jing An and Richard Middleton	Bing Xue, Wanxia Ren, Chengpeng Lu, Xiao Xie, Lu Jiang, Xiao Xiao and Chengrui Tang	Disna Eheliyagoda, Jinhui Li and Xianlai Zeng	Zhe Liu and Michelle Adams	Jinhua Guo, Gang Liu, Yao Liu, Shijun Lu and Shengkui Cheng
15:15-15:30	Model-based synthesis and Monte Carlo simulation of biochar-based carbon management networks	Analysis of waste management's influencing factors at municipal recycling facility in Bandung, Indonesia	An global overview of critical metals resources – opportunity and challenges	Material-energy-financial analysis of biomass to power system: case study from Japan	Horeca food waste and its ecological footprint in Lhasa, Tibet, China
	Beatriz Belmonte, Michael Francis Benjamin and Raymond Tan	Emenda Sembiring and Anggi Wulandini	Zhehan Weng, Gavin Mudd, Simon Jowitt and Tim Werner	Xuepeng Qian, Yuan Shao and Yan Li	Lingen Wang, Gang Liu, Yunyun Li, Li Xue, Xiaojie Liu and Shengkui Cheng
15:30-15:45	Challenges towards carbon dioxide emission peak under in-depth socioeconomic transition in China: insights from Shanghai city	An integrated solid waste management plan using remote sensing, GIS and linear optimization for Kharagpur, West Bengal	Bottom-up estimation of copper in-use stocks in Sichuan Province, China	The study of water management during shale gas exploration	The consequential benefits of algal biofuels
	Shangwei Liu, Xin Tian and Yilin Xiong	Abhishek Singhal and Sudha Goel	Yupeng Zhang, Haotian Zhao, Tao Wang and Bing Zhu	Kaipeng Ren, Xu Tang and Yi Jin	Yizhen Zhang and Alissa Kendall
15:45-16:00	The transition towards low-carbon cities: the input-output based scenario analysis in Sydney	Development of a circular economy framework for recycled plastic value chain	Global stocks and flows of tungsten: 1995-2015	Predicting corporate environmental performance with XGBoost in the energy service company industry	Future GHG emissions from meat choices and consumption of developing countries with diet preference and income elasticity
	Guangwu Chen, Thomas Wiedmann and Yafei Wang	Meng-I Liao and Hwong-Wen Ma	Linbin Tang and Wei-Qiang Chen	Saina Zheng, Chenghang He and Shu-Chien Hsu	Paul Shin, Solhee Kim, Chanhoon Jung, Chanwoo Kim, Yooan Kim and Kyo Suh
16:00-16:15	Water-energy nexus of biomass power generation in China: tradeoff between CO2 emissions and water consumption	Evaluating the sustainability of desalination implementation and management in the bi-national Santa Teresa, NM community	Impacts of iron and steel industry on air quality in "2+26" cities in China: effect of policy control and future scenarios	Environmental enforcement and compliance on Pennsylvania's Marcellus shale gas wells	Modeling and optimization to reduce irrigation impacts through re-wiring the US domestic food trade network
	Changbo Wang, Lixiao Zhang, Dequn Zhou and Yuan Chang	Ashley Page, Saeed Langarudi, Sam Fernald and Sue Forster-Cox	Yuhua Guo, Fenglin Han, Mingyan Tian, Junmao Qie, Jianjun Gao, Hongliang Zhang and Ming Xu	Meiyu Guo and Yuan Xu	Nemi Vora, Colin Gillen, Oleg Prokopykev and Vikas Khanna
16:15-16:30	Break				

	Conference Rm. 1 (3 rd Floor)	Conference Rm. 2 (3 rd Floor)	Conference Rm. 5 (3 rd Floor)	Conference Rm. 6 (3 rd Floor)	Multifunction B (2 nd Floor)
	Ecological Resources	Waste Utilization 1	Sustainable Mining	Industrial Symbiosis	Food-Energy-Water Nexus 1
Chair	Xuepeng Qian	Rafael Santos	Steven Young	Jinping Tian	Kyo Suh
16:30-16:45	Spatial spillover effects of environmental pollution in China's central plains urban agglomeration	Morphological and interfacial studies of recycled concrete aggregates	Life cycle inventory of underground mining of bauxite: a case from Bespelj mine in Bosna and Herzegovina	Resource efficiency assessment in integrated iron and steel plants through the industrial symbiosis and system dynamics approaches	Developing a "flow & stock-policy benefits" modelling framework of urban energy-water-food-land-climate change nexus: a case study of Beijing
	Lichun Xiong, Fengting Wang, Chang Yu and Baodong Cheng	Abhishek Jindal and Gd Ransinchung R.N.	Anamarija Grbes, Ivan Budes and Uros Barudzija	Raphaël Norbert, Junbeum Kim and Gérard Griffay	Jingyan Xue and Gengyuan Liu
16:45-17:00	Measuring ecological capital: state-of-the-art, challenges, and future trends	Strength and durability characteristics of steel fiber reinforced concrete	Predicting the spatio-temporal environmental impacts of iron ore production by linking geometallurgy and life cycle analysis	A symbiosis-based life cycle management approach for sustainable resource flows of industrial ecosystem	Integrated hybrid input-output modeling for the interaction between the food-energy-water system and the economy
	Huajun Yu and Yutao Wang	Roz-Ud-Din Nassar and Mehran Khan	Robert Pell, Laurens Tijsseling and Xiaoyu Yan	Xiaoqing Shi and Xiaonuo Li	Yaoping Wang and Jeffrey Bielicki
17:00-17:15	Analysis of emergy-based environmental carrying capacity for sustainable development strategies of islands	Utilization of coal bottom ash in recycled concrete aggregates based self compacting concrete blended with metakaolin	Environmental impacts due to informal gold extraction in the Peruvian Amazon	Mitigating coal dependence in China by facilitating municipal solid waste incineration in industrial parks: a life cycle perspective	Critical supply chains and key nodes for urban food-energy-water nexus: a structural path analysis of multi-regional input-output model
	Chanhoon Jung, Chanwoo Kim, Solhee Kim, Paul Shin, Yooan Kim and Kyo Suh	Navdeep Singh, Mithulraj M and Shubham Arya	Ramzy Kahhat, Eduardo Parodi, Carlos Mesta, Gustavo Larrea-Gallegos and Ian Vázquez-Rowe	Yang Guo, Thibaut Glad, Jinping Tian and Lujun Chen	Pengpeng Zhang, Lixiao Zhang, Yan Hao, Sai Liang, Yuan Chang and Min Yang
17:15-17:30	Revisiting the sustainability of cultivated land use in China: grain safety vs. ecological security	Utilizing of nano-SiO ₂ soaking method to promote the performance of concrete containing recycled aggregates	Impact of sandstone quarrying in Keru and Badli, Jodhpur on the health of quarry workers and local residents	Critical assessment of the eco-industrial parks (EIP) program in China and Korea towards strengthening the EIP program in Vietnam	Quantifying the food-energy-water nexus using multi-regional input-output models
	Xianpeng Chen and Kai Fang	Xuefei Chen and Shicong Kou	Abhishek Singhal and Sudha Goel	Ta Thi Huong, Angelo Earvin Sy Choi and Hung Suck Park	Yuhan Liang, Zhifeng Yang and Sai Liang
17:30-17:45	Accounting for ecosystem service losses of products in China by combining emergy and input-output analysis	Effect of crumb rubber and broken glass on permanent deformation behaviour of unbound granular aggregates	Quantifying urban copper resources in the Yangtze River Delta region, China	Comparison of eco-industrial park monitoring methods by static and dynamic approaches	Energy use and food waste tradeoffs in refrigerated supply chains
	Mingyue Pang, Lixiao Zhang, Changbo Wang and Yue Li	Mohammad Saberian and Jie Li	Min Hao and Wei-Qiang Chen	Hung Suck Park, Gideon Nkam Taka	Shelie A. Miller
17:45-18:00	A Bayesian belief network approach to assess integrated ecological impacts: case study of Kunming city, China	Investigation of recycled demolition waste over mechanical properties of cement concrete	Sustainable development framework design for small-scale mining in the Amazon	Mapping the role of policy instruments in industrial symbiosis intrinsic/endogenous practice with a conceptual framework based upon producers' perspective: a comparison between UK and China	A quantitative review of food-energy-water nexus research and its application for urban systems
	Lin Zeng, Tianzhu Zhang and Siyu Zeng	Prafulla Tiwari, Raman Nateriya and Jayvant Choudhary	Carlos Henrique Xavier Araujo, Giorgio De Tomi, Marjo de Theije and Renzo More Junior	Yuan Tao, Steve Evans and Claire Barlow	Joshua P. Newell

Thursday, June 28, 2018

8:00-17:00 Registration (Jingshi Hotel, 3 rd Floor morning, Yingdong Conference Hall afternoon)					
	Conference Rm. 1 (3 rd Floor)	Conference Rm. 2 (3 rd Floor)	Conference Rm. 5 (3 rd Floor)	Conference Rm. 6 (3 rd Floor)	Multifunction B (2 nd Floor)
	Buildings	Waste Utilization 2	Sustainable Supply Chain	Transportation Systems 2	Material Systems 2
Chair	Huabo Duan	Navdeep Singh	Pezhman Ghadimi	Shu-Chien (Mark) Hsu	Vincent Augiseau
8:30-8:45	Life cycle assessment of three Peruvian cement plants: towards a more sustainable use of resources	Recycling of REEs and critical metals from WEEE scrap	Decision-making model on sustainable supply chain finance in uncertainty	Environmental and economic comparison of diesel and battery electric delivery vans to inform city logistics fleet replacement strategies	Uncertainty resource utilization due to the choices of life cycle impact assessment methods
	Jara Laso, Kurt Ziegler, Ramzy Kahhat, Isabel Quispe, Maria Margallo, Rubén Aldaco and Ian Vázquez-Rowe	Yongxiang Yang	Ming-Lang Tseng and Kuo-Jui Wu	Alessandro Giordano, Paul Fischbeck and H. Scott Matthews	Xiaoju Chen, W Micheal Griffin and H Scott Matthews
8:45-9:00	Environmental and economic assessment of lightweight aggregates production from solid wastes	Hydrothermal conversion of neutral sulfite semi-chemical red liquor into hydrochar	Securing raw materials supply and responsible supply-chains via certification	Energy benefits of electrified autonomous vehicles (EAVs): estimated from a physics-based model	New resource efficiency indicator for better corporate engagement in Japan
	Jikun Zhao and Yufeng Wu	Ramy Gangoum, Animesh Dutta, Rafael Santos and Yi Wai Chiang	Steven Young	Hyung Chul Kim and Timothy Wallington	Qian Zhang and Yuichi Moriguchi
9:00-9:15	Integrating material efficiency and adaptability to reduce the materials used in building structures	Post-consumer cullet and potential engineering applications in North America	Sustainable inbound logistics supply chain planning and optimizing through BPR and ERM	Biofuel for vehicles: using system dynamics modeling to evaluate government subsidy policies	Revealing the trade effects on the life cycle greenhouse gases of materials: the Japanese case
	Danielle Densley Tingley, Elizabeth Rees and Rachel Moore	Qiuyan Yuan and Ifeanyi Ndukwe	Yi Sun and Yun Lin	Tsai Chi Kuo, Syu-Hong Lin, Ming-Lang Tseng and Anthony S.F. Chiu	Sebastien Michael Rene Dente, Chika Aoki-Suzuki, Keisuke Nansai, Seiji Hashimoto
9:15-9:30	An efficient heat recovery system in Swedish low-energy multi-family buildings	Plastic recuperation and valorisation fit for use: use of selective flotation in the separation of plastics from complex waste streams	Sustainability in supply chain through 3D printing opportunity	A comparative analysis of the effect of environmental improvement on drone-based delivery system in urban and rural areas	The environmental impact of China's domestic extraction
	Behrouz Nourozi, Qian Wang and Adnan Ploskic	Ruben Demets, Kim Ragaert, Arne Verliefde and Steven De Meester	Hing Kai Chan and Jia Jia Lim	Jiyoon Park, Yooan Kim, Solhee Kim, Chanhon Jung, Chanwoo Kim, Paul Shin and Kyo Suh	Heming Wang, Shen Zhao, Dong Yang, Jingru Liu, Qiang Yue, Jian Wang, Fengmei Ma and Tao Du
9:30-9:45	How is the 'achievements' for a megacity in China to promote the green buildings at a large scale?	Evaluation of the compressive and shear strength of brick masonry walls retrofitted with recycled polyethylene terephthalate (pet) strips	Evaluation of the collaborative performance of green supply chain management in battery manufacturing enterprises: a case of China's electric bicycle battery enterprise	Life cycle environmental assessment of charging infrastructure for electric vehicles in China	Geospatial characterization of material stock in the residential sector of a Latin-American city
	Yuanyuan Huang, Huabo Duan and Dan Dong	Jason Maximino Ongpeng, Emerson Gapuz, Jannor Cabinto, Bethanie Cabrera, Jack Reylord Haduca, Lemuel De Guzman, Kristine Gayle Lacerna, Paul Francis Martin and Regina Medrano	Gao Zhan, Li Jinkai, Zhang Jin, Wang Xiaotian and Zhang Guanyi	Zhan Zhang, Jianxin Yang and Xin Sun	Carlos Mesta, Ramzy Kahhat and Sandra Santa Cruz

9:45-10:00	Dynamic stock-flow modeling for urban residential building in China: a homogenous-heterogeneous dichotomy perspective	Recycling of glass and glass-hydrated lime composite as filler in asphalt mixes	Developing a fuzzy supplier selection model based on process quality from the viewpoint of sustainability	Shared autonomous vehicle systems: how many are needed and what are the sustainability implications	The impact of digitalisation on resource efficiency in the steel industry
	Shoujuan Tang, Lixiao Zhang, Yan Hao, Yuan Chang, Sai Liang, Pengpeng Zhang, Xin Xiong	Jayvant Choudhary, Brind Kumar and Ankit Gupta	Kuen-Suan Chen, Ching-Hsin Wang and Anthony S.F. Chiu	Ruoxi Wen and Hua Cai	Marlene Arens, Christoph Neef and Simon Hirzel
10:00-10:15	Break				
	Conference Rm. 1 (3 rd Floor)	Conference Rm. 2 (3 rd Floor)	Conference Rm. 5 (3 rd Floor)	Conference Rm. 6 (3 rd Floor)	Multifunction B (2 nd Floor)
	Environmental Behavior 2	Pollution Remediation	Energy Systems 2	Cleaner Production	Material Systems 3
Chair	Yueming (Lucy) Qiu	Jianpeng Zhou	Xianlai Zeng	Ming-Lang Tseng	Danielle D. Tingley
10:15-10:30	Time-of-use pricing and investments in energy efficiency and solar panels	Treatment of mercury contaminated soil with sulfur-modified rice husk biochar: stability under accelerated ageing	Pattern changes of Chinese energy consumption in the new economic development phase	Sustainability assessment of chemical production chains using system dynamics	Material footprint and business cycle: a missing link in addressing resource sustainability?
	Yueming Qiu, Jing Liang and Pengfei Liu	David O'Connor and Deyi Hou	Zhifu Mi	Xiaoping Jia, Gang Xin and Fang Wang	Xiao Li, Yutao Wang and Lei Shi
10:30-10:45	Empirical study on decision-making mechanism of residents' household solid waste disposal behaviors	Mineral sequestration of CO ₂ with brine in tubular reactor	Rebound effect of energy intensity changes on energy consumption	Evaluating environmental protection strategy in printed circuit board manufacturer using fuzzy importance performance analysis	An assessment of sustainability of non-fuel minerals resource extraction and utilization through a US copper case study
	Xiaoyan Meng, Zongguo Wen and Xianchun Tan	Ning Zhang, Rafael M Santos, Stephen Smith and Lidija Šiller	Taoyuan Wei, Jinjin Zhou	Kuo-Ping Lin and Li-Ju Lin	Miranda Gorman and David Dzombak
10:45-11:00	How to achieve a cooperative mechanism of MSW source separation among individuals — an analysis based on evolutionary game theory	Novel carbon-based cathode bioelectrochemical systems for simultaneous wastewater treatment and energy recovery	Wind energy resource performance evaluation of wind farms using fuzzy BWM-TOPSIS method	Manufacturing conversion cost reduction using quality control (QC) tools and analyzing real-time data through digitization	Tracing the flows of construction and demolition waste in the Netherlands
	Feiyu Chen, Hong Chen and Ruyin Long	Xiaoyuan Zhang	Sen Guo, Haoran Zhao, Ming Xu and Huiru Zhao	Veer Shivajee, Rajesh Kumar Singh and Sanjay Rastogi	Jesús Rosales Carreón
11:00-11:15	Household waste recycling in Italy: do environmental concerns matter?	Laboratory study of recycled phosphogypsum, tropical soil and cement mixtures in wet and dry environmental conditions	Sustainable coal consumption and production environmental indicator using life cycle analysis based fuzzy inference model: a Chinese supply chain perspective	Developing a hierarchical framework through integrating qualitative and quantitative information for improving corporate sustainability performance	Anthropogenic modifications of the nitrogen metabolism in the Beijing megacity, China
	Maria Carmela Aprile and Damiano Fiorillo	Millena Vasconcelos Silva, Lilian Ribeiro de Rezende, Márcia Maria Dos Anjos Mascarenha and Renato Batista de Oliveira	Pezhman Ghadimi, Chao Wang and Ming K Lim	Kuo-Jui Wu, Shuo Gao, Li Xia and Anthony S.F. Chiu	Jingjin Pan and Jianxin Yang
11:15-11:30	Measurement and influencing factors of urban residents' carbon capability: a case study of Jiangsu province in China	The oxygen transfer capacity of submerged plant elodea densa in wastewater constructed wetlands	Water-energy nexus in shale gas wastewater management: an optimization-based approach	The environmental impact evaluation system in pulp and paper industry	Where will the waste plastics refused by China go?
	Qianwen Li, Ruyin Long and Hong Chen	Andrzej Białowiec, Karolina Sobieraj and Grzegorz Pilarski	Sakineh Tavakkoli, Omkar Lokare, Radisav Vidic and Vikas Khanna	Mingxing Sun, Yutao Wang and Lei Shi	Tong Xu, Wei-Qiang Chen, Zijie Ma and Yonggang Wang

11:30-11:45	Assessing changes in residential electric power consumption due to emerging changes in climate and technology	Immobilization and utilization of hazardous jarosite waste by lime stabilization	Forecasting electricity demand for residential sector using recurrent neural networks	Sustainability indicators for biobased chemicals: a Delphi study	Trade and transboundary nitrogen footprint in China
	Ruoxi Wen, Hua Cai, Roshi Nataghi, Benjamin Rachunok and Yifan Tong	Chayan Gupta and Arun Prasad	Hyunchul Choi, Hyeonwoo Seong, Hyojoo Son and Changwan Kim	Sophie Van Schoubroeck, Miet Van Dael, Robert Malina and Steven Van Passel	Miaohong Yang, Shenghui Cui, Yuanchao Hu and Bing Gao
11:45-13:30	Lunch (Xibei Canteen)				
	Conference Rm. 1 (3 rd Floor)	Conference Rm. 2 (3 rd Floor)	Conference Rm. 5 (3 rd Floor)	Conference Rm. 6 (3 rd Floor)	Multifunction B (2 nd Floor)
	Recycling 2	Water and Wastewater Systems	Circular Economy	Climate Mitigation 2	Food-Energy-Water Nexus 2
Chair	Ramzy Kahhat	Xiaoping Jia	Zhe Liu	Meiyu Guo	Shelie A. Miller
13:30-13:45	Incentives for packaging waste sustainability	Handling uncertainties inherited in field collected data for life cycle assessment of wastewater solid residuals treatment process	Integrated reverse logistics into green supply chain by EPR	Downscaling shared socioeconomic pathways from global to local: application to future wood outtakes in the Norwegian forestry sector	Food-energy-water-climate nexus approach for the food waste management decision
	Pedro Simoes and Rui Marques	Isam Alyaseri and Jianpeng Zhou	Xin Tong	Xiangping Hu, Cristina Maria Iordan and Francesco Cherubini	Jara Laso, Isabel Garcia-Herrero, Maria Margallo, Angel Irabien, Pere Fullana, Alba Bala, Ian Vazquez-Rowe, Ruben Aldaco
13:45-14:00	Examination of deposit-refund systems in Baltic countries	Development and application of water footprint methodology for expressway and railway infrastructures	Policy changes toward a circular economy in China	Exploring the future of CCU by combining an international Delphi study with local scenario development	Balancing the supply and demand of food, energy and water in urbans: a nexus approach
	Daisuke Numata	Youngwoon Kimm, Yongwoo Hwang, Dalki Min and Junbeum Kim	Junming Zhu and Chengming Fan	Kim Vreys, Sebastien Lizin, Miet Van Dael, Joe Tharakan and Robert Malina	Daohan Huang, Yuan Chang, Guijun Li and Qian Liu
14:00-14:15	Economic rationalism or administrative rationalism? curbside collection system building and management in Sweden and Japan	Accurate analysis on urban water-carbon nexus using disaggregated input-output model	A framework for circular economy implementation in the tourism sector	An initiative on social and economic dimensions on climate change and carbon reduction	Dynamics of urban food demands and related water-carbon footprints: a case study of Beijing
	Wakana Takahashi	Fanxin Meng, Gengyuan Liu, Zhifeng Yang, Yuanchao Hu, Meirong Su, Marco Casazza, Biagio F. Giannetti and Sergio Ulgiati	Roberto Merli, Michele Preziosi and Alessia Acampora	Xiangzheng Deng, Pei Wang, Yuping Bai, Fan Zhang, Feng Wu and Zhihui Li	Xin Xiong, Lixiao Zhang, Pengpeng Zhang, Yan Hao, Yuan Chang and Can Wang
14:15-14:30	End-of-vehicle recycling practice: challenges and opportunities in Chinese market	Environmental assessment of wastewater treatment systems involving constructed wetlands with and without forced aeration	Blockchain applications as circular economy enablers	Is China possible to complete the RPS target in 2020?	A study of Chinese restaurant reverse logistics: issues and challenges of kitchen waste disposal
	Fuli Zhou, Xu Wang, Yun Lin and Ming K. Lim	Juliana Dalia Resende, Marcelo Antunes Nolasco and Sérgio Almeida Pacca	Henning Wilts, Anaïs Urban and Holger Berg	Xingping Zhang and Yinhe Bu	Jiayao Hu, Kim Hua Tan and Leanne Chung
14:30-14:45	Evaluating the improvement measures for e-waste recycling of informal sectors: case study of Metro Manila, in the Philippines	Life-cycle analysis of source separated wastewater treatment and urine derived fertilizer production	Closing the loop of materials in the evolving circular economy	Determinants of GHG emissions from electricity system in China	Using multi-objective water resource system optimization to improve synergistic benefits of water, food and energy nexus
	Aya Yoshida and Florencio C. Ballesteros Jr	Stephen Hilton, Bowen Zhou, Gregory Keoleian, Glen Daigger, Nancy Love	Yang Li and Lei Shi	Hongxia Wang, Weicai Wang and Sai Liang	Yi-Shin Wang, Hang-Yeh Lin, Angela Huang and Fi-John Chang

14:45-15:00	Municipal solid waste sustainably available for energy use in China - current status and future projection	Urban water footprint accounting with GIS-based high resolution	An investigation into the applicability of building types for implementing circular economy principles	Environmental benefit evaluation of clean power transition in China: Jing-Jin-Tang case	Use of domestic wastewater for food production
	Sara Shapiro-Bengtsen and Marie Munster	Wen-Kai Chuang and Pei-Te Chiueh	Katherine Tebbatt Adams, Mohamed Osmani and Tony Thorpe	Jiehui Yuan and Xunmin Ou	Yongsheng Chen
15:00-15:30	Break				
15:30-17:30	Poster Session (Yingdong Conference Hall)				
18:00-20:00	Banquet (Tongchunyu Hotel)				
	Welcome and Introduction	Gang Liu, Program Committee Chair			
	Keynote Speech	Assessment of Emerging Resource-Efficient Technologies: Challenges and Opportunities Eric Masanet Northwestern University			
	RCR Awards	Alissa Kendall, Associate Editor, <i>Resources, Conservation & Recycling</i>			
Friday, June 29, 2018					
8:00-12:00	Registration (Yingdong Conference Hall)				
Plenary Session (Yingdong Conference Hall)					
	Introduction	Vikas Khanna, Scientific Committee Chair			
8:30-9:10	Keynote Speech	Transforming Urban Water Management Glen Daigger University of Michigan			
9:10-9:50	Keynote Speech	Social and technological transformations and their influence on supply chain sustainability Joseph Sarkis Worcester Polytechnic Institute			
9:50-10:00	Break				
10:00-11:30	Editor Panel				
	Hing Kai Chan, Co-Editor-In-Chief, <i>Industrial Management & Data Systems</i> Alissa Kendall, Associate Editor, <i>Resources, Conservation & Recycling</i> Vikas Khanna, Associate Editor, <i>Resources, Conservation & Recycling</i> Ming K. Lim, Co-Editor-In-Chief, <i>International Journal of Logistics Research and Applications</i> Gengyuan Liu, Managing Editor, <i>Journal of Environmental Accounting and Management</i> Lei Shi, Editorial Director, <i>Journal of Industrial Ecology</i> Lei Shen, Associate Editor, <i>Journal of Natural Resources</i> Yutao Wang, Co-Editor-In-Chief, <i>Journal of Cleaner Production</i> Lixiao Zhang, Associate Editor, <i>Journal of Environmental Management</i> Moderator: Ming Xu, Editor-In-Chief, <i>Resources, Conservation & Recycling</i>				
11:30-12:00	Award and Closing Ceremony Weiqiang Chen, Sergio Pacca, Award Committee Co-Chairs Ming Xu, Conference Chair				

Poster Presentations

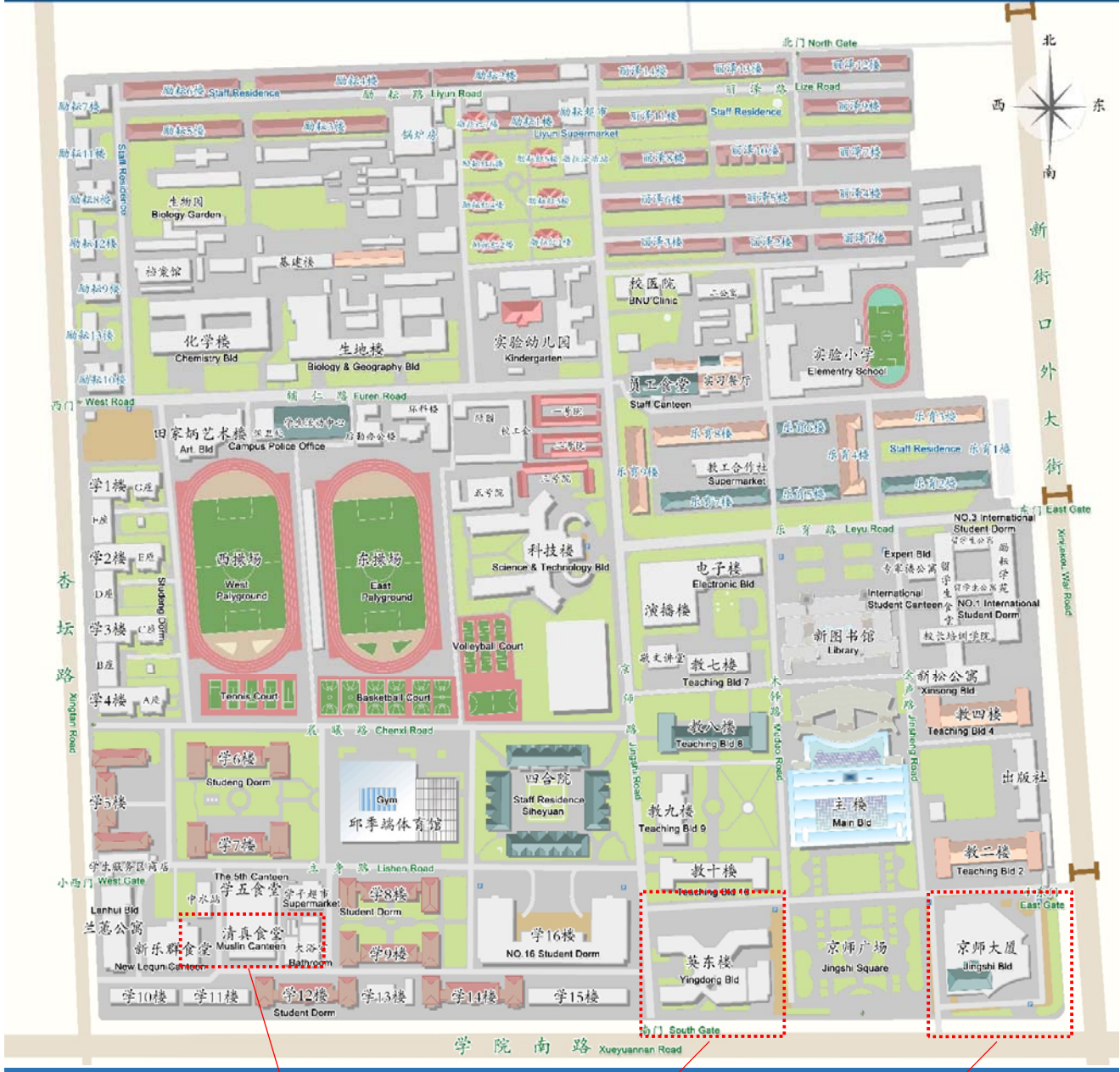
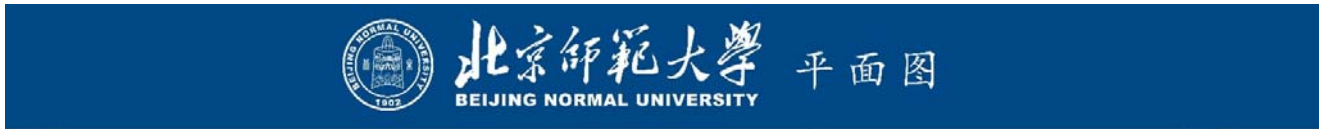
ID	Authors	Title
3	Xunan Huang, Bo Liu, Jiaxue Hao, Wenhua Xu, Hongliang Zhang, Guohua Wang, Xiaojing Zheng and Guang Jia	Development of a new quiet particulate matter remover for indoor environment without using exhaust fans
15	Yixuan Wang, Yajuan Yu, Kai Huang and Haohui Wu	From enterprise to industry's viewpoint: the energy, environmental and economy (3E) assessment on lithium-ion battery products in China
25	Gao Chengkang, Na Hongming and Gao Wengang	Analyzing spatial characteristics and dynamic changes of air-pollutant emission inventory in Chinese steel industry based on the "bottom-up" approach
28	Weiguo Fan, Hejie Wei and Xiaobin Dong	Estimating circular agricultural environmental impact using life cycle assessment approach
29	Can Cui and Zhen Wang	Forward and backward critical sectors for CO ₂ emissions in China based on eigenvector approach
33	Jing Zhang, Lixiao Zhang, Hongqiang Jiang, Zhe Liu and Weihua Zeng	Low-carbon roadmap for thermal power sector in China: technology development analysis
39	David O'Connor and Deyi Hou	Biochar production for valorizing and reusing agricultural residues on-site: a critical review of processes, opportunities, and challenges
42	Tianyue Peng, Zhengtao Shen and Deyi Hou	Effectiveness of sustainable materials as binding agents in soil stabilization of arsenic and antimony
47	Weimei Zhang and Qinmin Fang	Measurement and evaluation of urban eco-innovation efficiency in China
52	Yan Xu and Jiahai Yuan	1.5DS scenario of China's power sector by 2050
57	Yaru Cui, Haoyue Fan, Ziliang Guo, Guohua Wang, Xiaoming Li and Junxue Zhao	Volatilization behavior and kinetics of sodium-containing fluoride mould flux
58	Meng Jia, Xin Chunlin and Zhang Tingting	Study on vehicle routing optimization of hazardous waste transportation based on third-party logistics - a case study of Beijing
60	Ruru Han, Beihai Zhou, Lei Ma and Nan Li	Environmental risk assessment of chemical industry based on ERA-FEM
67	Zhang Tingting, Xin Chunlin and Meng Jia	Cost of MSW services accounting in Beijing under the integration of the two networks
68	Zhao Zhiwei, Xin Chunlin and Wang Jie	The multi-transfer station municipal solid waste collection and transportation network under demand uncertainty
72	Jie Wang, Chunlin Xin and Zhiwei Zhao	Optimization of collection and transportation route of municipal solid waste considering carbon emissions
75	Fenglin Han, Zhirong Zhao and Hongliang Zhang	Relationship of air pollution and urban development in the United States
79	Guofeng Wang, Chengliang Wu, Yudan Shen and Xiangzheng Deng	Scenario-based analysis on the energies structure induced carbon emission changes in China
80	Zhuming Lv, Hui Sun, Zeyu Lyu, Bin Jiang and Chen Chen	Design and optimization of urban reclaimed wastewater reuse network based on mathematical programming
82	Qi Zhang, Wei Zhang, Yujie Wang and Xiuping Li	Energy conservation and CO ₂ emissions reduction in polygeneration process of steel-chemical-construction industries
83	Li Lixu, Fang Xianlu, Li Yina and Ye Fei	Allocation of carbon dioxide emission permits based on an economy-energy-environment perspective: a case study of Guangdong Province
97	Guomin Li, Wei Li and Yinke Dou	Environmental impact and intervention mechanism of Antarctic human activities
107	Kaiyu Chen, Hao Guo and Hongliang Zhang	Health and economic effects of wildfire in US in 2011
108	Feng Feng	Industrial energy consumption intensity of Guangdong Province in China: an analysis based on hybrid-units input-output model with energy real term flows
109	Fangyi Li, Jingjing Xu, Gang Liu, Rui Ou and Zhaoyang Ye	Material stocks change towards a cleaner power system of China
113	Dong Liu, Yanwei Zhao and Mengjia Xu	Biofuel production by using waste nitrogen via constructed wetland in China
120	Ruimeng Shi, Junxue Zhao, Yaru Cui, Xiaoming Li, Haoyue Fan, Hongliang	Direct reduction and extraction of iron from nickel smelting slag and preparation of cementing materials using gangue composition

	Tang and Zhongyu Zhao	
124	Wang Yuan, Lu Yaling, Li Jiao, Huang Dacang and Jiang Hongqiang	Characteristics of public concern about haze and its relationship with air quality in China
131	Cuiyang Feng, Xu Tang and Yi Jin	China's energy-water nexus: regional synergy of energy conservation on water resources
135	Xuecheng Wang, Xu Tang and Baosheng Zhang	China's provincial water intensity reduction targets allocation plan: from a fairness perspective
140	Xiaole Gao and Hongtao Zhu	Enhanced volatile fatty acid recovery in an anaerobic membrane bioreactor treating waste sewage sludge
141	Li Cui, Mengru Zhai and Zhimei Lei	A hybrid approach to explore the critical factors influencing company sustainability from the government's perspective
146	Daoyan Guo, Hong Chen and Ruyin Long	Personal carbon trading: mandatory or voluntary? a game model between government and individuals considering heterogeneous emotions
152	Xueqi Wang and Gengyuan Liu	Study on the energy-based urban agglomeration metabolic geography: combined with night-time satellite data and statistical data
156	Yunyun Li, Gang Liu, Xiaojie Liu, Ling-En Wang and Shengkui Cheng	Characteristic of rural household food waste and its driving factors in Shandong Province, China: a survey-based research
162	Cheng Xiu and Long Ruyin	A review of green competitiveness: research focus, trends and future research direction
163	Tianyue Peng, Yinan Song and Deyi Hou	Incorporating sustainability into soil contamination mapping: life cycle comparison between portable XRF and ICP-MS
166	Tiening Cui and Jimei Zhang	The measurement of energy efficiency and the evolution of spatial pattern in China
167	Linling Zhang	Do car restriction policies effectively promote the development of public transport?
173	Yaru Liu, Tingting Liu and Amma Agyeiwaa	Waste cooking oil-to-biodiesel: simulating economic incentives for increasing the recovery rate in China
176	Jinshan Yang and Haifeng Wang	Removal of inorganic in the non-metallic fractions of waste printed circuit board
180	Yanmei Li, Miaomiao Niu and Liyun Sun	Impact of participation in global value chains on China's carbon emissions: a review
183	Xiaofei Yin, Yufeng Wu and Tiejong Zuo	High efficiency recovery of EU from waste blue phosphors (bamgal11o19: eu3+) using a sodium peroxide system and its mechanism study
185	Zhihui Li, Xiangzheng Deng, Yue Zhang and Lu Peng	Impacts of industrial structure on energy consumption and carbon emission changes across space and time: a case study of Beijing, China
187	Yali Lu, Shuaishuai Xu and Leimeng Xu	Justice perception measure and interest coordination of stakeholders of sustainable supply chain in inter-basin water transfer project
189	Daju Xu and Haiyan Zhang	Theory about input-output analysis: some properties of Leontief inverse matrix and Ghosh inverse matrix
190	Yiming Li, Bin Zhang, Yuantao Yang, Bo Wang and Zhaohua Wang	Research on the optimization of China's industrial institutions under emission reduction targets --- based on input-output analysis model and multiobjective programming model
197	Wan-Jun Wang, Min Dai and Wei-Qiang Chen	Scenarios for energy use and GHG emissions of China's future aluminum cycle
198	Hui Sun, Zhuming Lv, Zeyu Lv, Bin Jiang and Chen Chen	Analysis of approaches and effects of energy saving and consumption reduction in a typical large municipal sewage treatment plant in Beijing
202	Sangyong Kim, Hong-Shik Lee, Dohoon Lee, Aldricho Alpha Pollardo and Jaehoon Kim	Effect of solvent on activity of modified calb in production of biodiesel from waste animal fat
203	Yafei Wang and Qiao Huang	Calculation of waste recycling in China and analysis of its driving factors
207	Letao Zhang, Jihong Zhou, Kexin Liu, Xiang Li, Jinjin Yang, Hong Yu, Beidou Xi, Shaokang Li, Jianchao Zhu and Chaoran Zhang	Study on surface water environmental impact assessment in shale gas development
208	Chanwoo Kim, Chanhoo Jung, Solhee Kim, Paul Shin, Yooan Kim and Kyo Suh	Evaluation for sustainability of limited land resources in Jeju island using ecological footprint model
211	Zhongmei Sun, Sha Chen, Sumei Li,	Research and application status of dynamic life cycle assessment

	Yingying Liu and Xiaodan Shi	
212	Yingying Liu, Sha Chen, Sumei Li, Zhongmei Sun and Xiaodan Shi	PM2.5 emission reduction in energy field of Beijing-Tianjin-Hebei region in 2030
214	Guangli Zhou and Yufeng Wu	Operation mode and main characteristics of the deposit-refund system based on the extended producer responsibility and stakeholder theory
215	Jingru Hu and Kai Huang	Water-food-energy nexus from the perspective of China's inter-regional spillover and feedback effect: a supply driven input-output approach
216	Shuhao Zhang and Yufeng Wu	The potential of waste resin powder for wood-plastic composites
221	Shuo Liang and Chunlin Xin	Analysis and integration of informal recycling system in Beijing
223	Gen Li, Bitian Fu and Yue Che	Public intentions towards ecological compensation for transboundary river basin based on the theory of planned behavior method
227	Xiaowei Ma and Jingke Lan	The influence of income and income gap on residents indirect carbon emissions
231	Ma Xiaowei and Jing Yina	Embodied carbon emission caused by residential consumption in Jing-Jin-Ji region: based on the perspective of producer and consumer responsibility
232	Lei Wang, Ruyin Long and Hong Chen	What factors are related to implement the energy performance contracting for urban residential housings and how do these factors affect? a systematic study based on interpretive structural modeling method
238	Wei Cong and Lei Shi	How much does circular economy contribute? cost composition of a towel in China
239	Xiaopeng Guo and Xiaoyu Yang	The input-output analysis for food waste anaerobic treatment: a Beijing case study
270	Alex Jordan, Margaret Douglas, Harland Patch, Christina Grozinger and Vikas Khanna	Economic vulnerability of the united states agricultural sector facing pollinator decline
281	Abhishek Singhal and Sudha Goel	Environmental impact of sandstone quarrying at Keru, Jodhpur, Rajasthan
288	Bo Liu, Mingxiu Che, Reza Malekein, Jinpeng Xu, Yueming Qi and Zhixiong Li	Modelling of dissolved CO2 transport and hydrogeochemical interaction during CO2 storage in deep saline aquifers
290	Huijing Deng and Alissa Kendall	Life cycle greenhouse gas assessment of high-speed rail construction in China
291	Liquan Li, Bin Li and Yufeng Wu	A study on the demand and sustainable supply of copper resources in china
306	Lu Lin and Weiqiang Chen	China's soybean trade and its global embodied environmental impacts
309	Jayvant Choudhary, Brind Kumar and Ankit Gupta	A review of solid waste materials as alternative fillers in asphalt mixes
310	Chuanpeng Hao, Yan He, Yan Wang, Yulin Wang and Yufeng Li	A remanufacturing process planning system using case based reasoning
314	Shrestha Keshab, Gideon Nkam Taka, Yu Jin Park, Hung Suck Park	Emergy accounting and forecast for assessing sustainable development of Nepal
316	Shrestha Keshab, Gideon Nkam Taka, Da Ye Lee, Hung Suck Park	Evaluation of impact of Gorkha-earthquake in Nepal on sustainability by emergy analysis
319	Jin Xu, Xuyao Li, Yifan Gu, Yue Li and Hongtao Wang	Sustainability-oriented water management in dairy industry: a case study in eastern China
324	Yiling Xiong and Xin Tian	Trends of water and energy consumption with socioeconomic transitions in Jing-Jin-Ji region of China
333	Mayandi Venkatesan, Izhar Hussain Shah, Angelo Earvin Sy Choi, Hung Suck Park	Valorization of waste foundry sand and fly ash using geo-polymer concrete technology
336	Adeyinka Omotehinse, Giorgio De Tomi and Michael Aba	Achieving sustainable development goals in mining enterprises within communities impacted naturally by mineral deposits: a discussion of the oil sands of Nigeria
339	Sui Guo, Huajiao Li and Bowen Sun	The lead-lag relationship research of steel products in different regions
346	Xuemei Yin	Study on carbon footprint of the household expenditures in Beijing based on multi-scale input-output analysis
355	Ying She and Yaobin Liu	Is China's river chief policy effective? evidence from a quasi-natural experiment in China's Yangtzi River economic belt
356	Sylwia Stegenta, Karolina Sobieraj,	The analysis of spatial distribution of process gases within a pile during

	Grzegorz Pilarski and Andrzej Białowiec	composting of bio-waste
357	Miao He, Jinsheng Zhou, Kun Luo and Shujun Wu	A research on the on the balance mechanism of stakeholders in land resources planning and management due to space planning reform in China
358	Qianli Chen and Jing Li	Research status of carbon emissions from the perspective of "urban-land-government"
360	Qing Yang, Gengyuan Liu, Marco Casazza and Biagio Giannetti	Study the effect of pollution on an ecosystem: a thermodynamic perspective
362	Zeyu Lyu, Zhuming Lv, Hui Sun, Bin Jiang and Chen Chen	The optimization of waste water by its quality and quantity
365	Adeel Akhtar	Impact of knowledge sharing on sustainable supply chain practices: evidence from Pakistan
372	Sylvia Stegenta, Grzegorz Drabczyński and Andrzej Białowiec	Emission of carbon monoxide during composting of cow manure with grass and sawdust in laboratory conditions
374	Jin Xu, Ru Guo and Yu Shi	Spatio-temporal dynamics of urbanization and energy consumption in China
375	Jayvant Choudhary, Brind Kumar and Ankit Gupta	Evaluation of mechanical and durability properties of asphalt mixes comprising recycled materials as fillers
378	Paweł Stępień, Małgorzata Serowik and Andrzej Białowiec	The refuse derived fuel RFD torrefaction process energy consumption modeling based on the calorimetric analysis of its components
380	Elmira Mohammadi Shamlou, Sakineh Tavakkoli, Omkar Lokare, Radisav Vidic and Vikas Khanna	A multi-objective optimization approach for economically and environmentally conscious development of shale gas produced water desalination strategies
381	Michele Preziosi, Alessia Acampora, Roberto Merli and Maria Claudia Lucchetti	Reasons behind the abandonment of environmental management systems certification: a survey analysis
385	Sungwoo Kim, Yongwoo Hwang, Dalki Min, Man Hyeoung Han and Junbeum Kim	Characteristic and flow analysis on specified waste from domestic manufacturing industry in South Korea
386	Junhyuck Jung, Yongwoo Hwang, Dalki Min, Man Hyeoung Han and Junbeum Kim	Household waste flow analysis and management evaluation index in South Korea
407	Shaoqing Chen, Zhu Liu, Feiyao Zhu and Sai Liang	Urban carbon leakage cross boundaries: analysis of full supply chains
410	Jiajia Li, Yupeng Liu and Wei-qiang Chen	Dynamics of urban housing stock in Xiamen from 1985 to 2015
414	Srinivasa R. Popuri	Improvement of copper (ii) ions removal from aqueous solutions through biosorption using sargassum loaded chitosan sorbent
418	Zhong-Jie Zheng, Meng-Ying Lin and Pei-Te Chiueh	Sustainable decision analysis of contaminated sediment remediation: a case study in the northern Taiwan
420	Zhe Meng, Mi Li, Kaimin Shih and Yuanyuan Tang	A quantitative study on the immobilization and detoxification of copper by aluminate spinel
421	Huaping Sun, Weifeng Sun and Yong Geng	The impact of natural resources dependence on public education investment

Maps and Directions

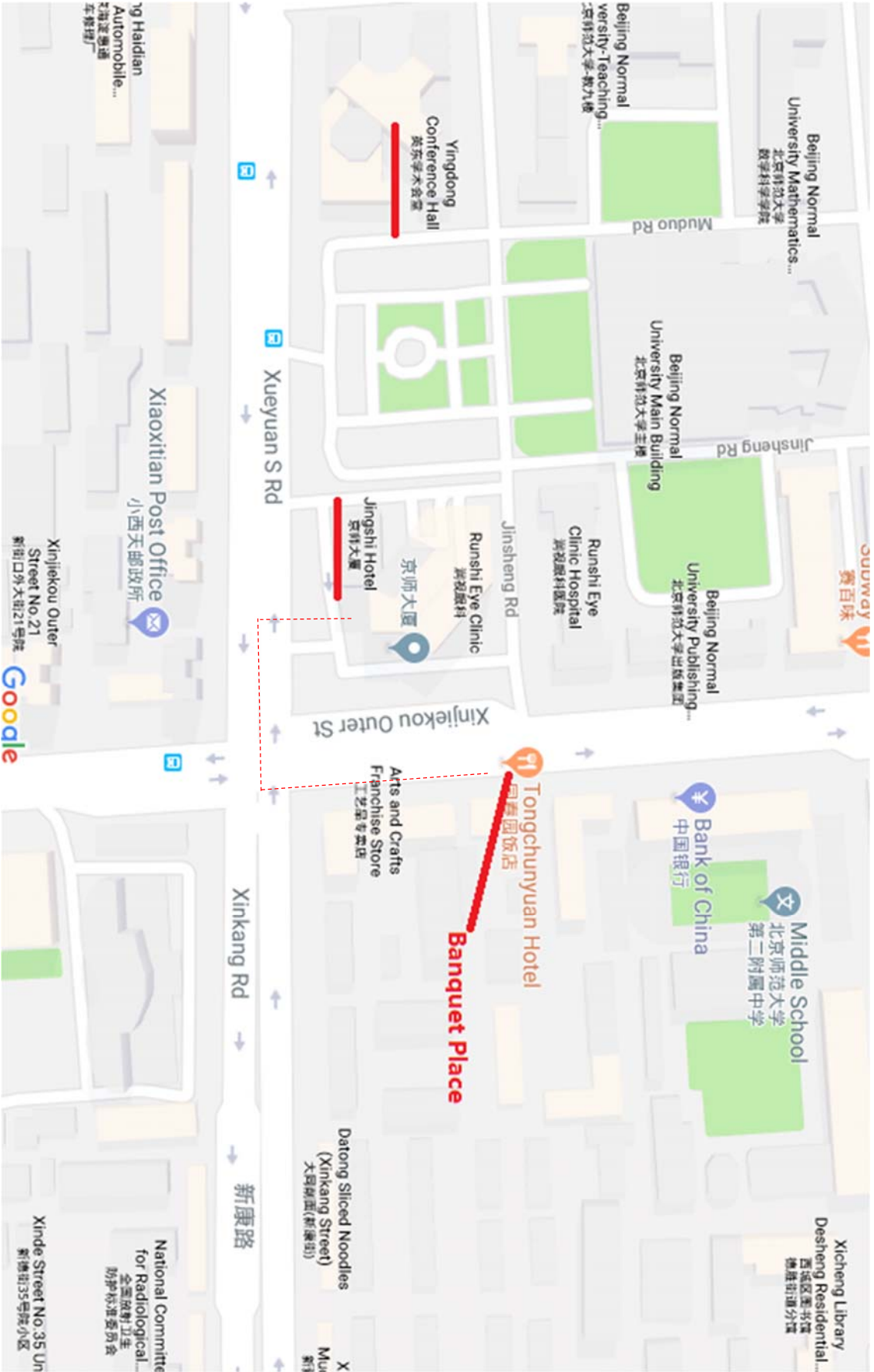


Xibei Canteen

Yingdong Conference Hall

Jingshi Hotel

Banquet place



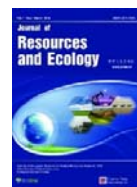
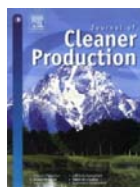
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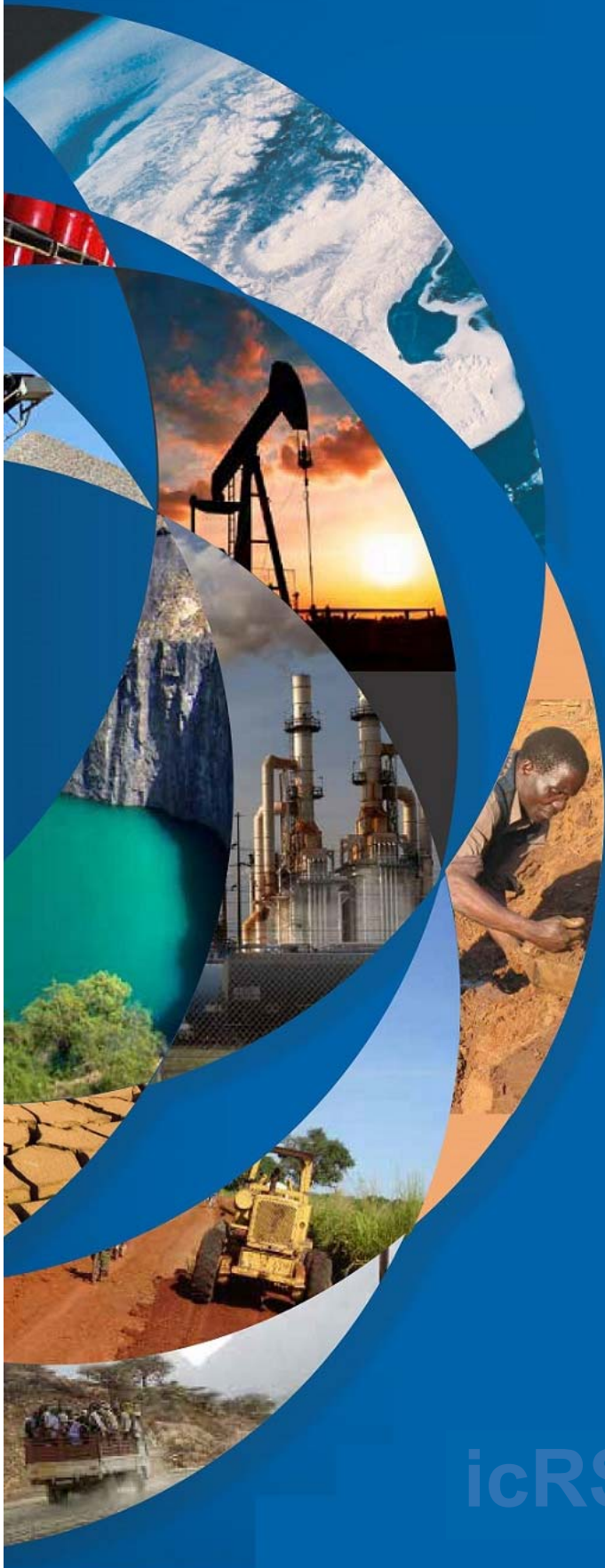
- The conference venues are located on Beijing Normal University campus:
 - Yingdong Conference Hall will be used for Plenary Sessions (June 27 and 29 mornings) and Poster Session (June 28 afternoon)
 - Jingshi Hotel will be used for Parallel Sessions (June 27 afternoon and June 28 before Poster Session). Four Parallel Session rooms will be on the 3rd Floor, while the other on the 2nd Floor.
 - Xibei Canteen will host lunches on June 27 and 28, located on Beijing Normal University campus.
 - Tongchunyuan Hotel will host conference banquet on June 28 evening, located just across the street from Jingshi Hotel.
- Registration desk will be open before and during the entire conference, at either Yingdong Conference Hall or Jingshi Hotel (3rd Floor). Early registration on June 26 afternoon in Jingshi Hotel lobby is strongly recommended.
- Student volunteers will be available to guide transitions between conference venues, lunch, and banquet.
- Parallel Session chairs and presenters please arrive at least 10 minutes prior to your session starts to load presentation files into computers provided by the conference.
- Poster presenters please arrive at least 10 minutes prior to the Poster Session starts to locate your poster board (noted with your Abstract ID).

Emergency Contact

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