		9.20am	Registration	Registration		Registration		Registration
Day 1 (21 June)	9.20am 9.30am 10.30am		Welcome/Housekeeping Keynote Speaker Break	Welcome/Housekeeping Keynote: Prof. Phil Blythe, Chair: Prof. Emma Kendrick, Room: Lindsay Stewart Charging Station/Charging components, Chair: Prof. Anna Stefanopoulou, Room: 1/06		Welcome/Housekeeping Keynote: Prof. Phil Blythe, Chair: Prof. Emma Kendrick, Room: Lindsay Stewart Vehicle design/Energy efficiency&Electric motor, Chair: Prof. Emma Kendrick, Room: 3/03		Welcome/Housekeeping Keynote: Prof. Phil Blythe, Chair: Prof. Emma Kendrick, Room: Lindsay Stewart Vehicle design/Efficiency and Performance, Chair: Prof. Haiping Du, Room: 3/11
			Dreak	Cyber Attack Detection for Integrated Onboard Electric Vehicle Chargers subject to Stochastic Charging Coordination	4	Integrated cooling/HVAC system design and control strategy for reconfigurable light electric vehicle Daniele Chiappini, Laura Tribioli, Gino Bella, Pere Canals	95	
		11.10am 11.30am		Ali Arsalan, Laxman Timilsina, Grace Murithi, Behnaz Papari, Christopher S. Edrington Stochastic Modeling of Electric Vehicle Charging Behavior K. T. Chau, Yao Tang, Tengbo Yang K. T. Chau, Yao Tang, Tengbo Yang	7	Maximization of energy recovery under braking through an appropriate regenerative braking logic which takes into account the locking limit of the wheels Gluila Sandrini, Marco Gadolp, Daniel Childamo, Xi Cheng	30	Multi-objective Optimisation of Gear Ratios in Two Speed Dual Clutch Transmissions for Electric Vehicles Yiyi Liang, Haiping Du
		11.50am	Parallel sessions	A conceptual representation of real-time and long-term decision-making in the roll-out and exploitation 38 of public EV charging infrastructure in neighbourhoods Mylene van der Koopk, Fimile Chappin, Rene Heller, Zofia Lukszo	85	Calculation and Analysis of Heat Load of Automotive Air Conditioning Xuefeng lin, Weiwei Zhao, Tongtong Zhang, Song Yang, Yulong Ding	44	Thermal-mechanical energy harvesting for EV through liquid-solid nanotriboelectrification Weiwei Zhao, Yaroslav Grosu, Song Yang, Tongtong Zhang, Yongliang Li, Yulong Ding
				Possibility of reducing the effects of harmonic distrortion in fast charging technologies for electric vehicles	61	Evaluation of the environmental benefit of an eco-design strategy on the life cycle assessment of a permanent magnet high speed electric motor	48	Impact of ultrasonic and laser multi-welds on electro-thermal behaviours of battery tab interconnects Indranii Manna, Nikhii Kumar, Abhishek Das
		12.10am		Emmanuel Mudaheranwa, Hassan Sonder, Liana Cipcigan, Carlos Ugalde Loo 12 Pulse High power Active Rectifier for Electric Vehicle Charging Mohammad Taha. Ali M. A. Alimaktoof	62	Antonella Accardo, Filippo Giolito, Ezio Spessa Trends in High Voltage Inverter Systems Jeffrey Loeliger, Lukas Gorel	93	Thermal energy storage to increase the range of electric vehicles under cold ambient conditions L. Bartolucci, E. Cennamo, S. Cordiner, F. Grattarola, V. Mulone, S. Pasquale, F. Pasqualini, G. Giraudo, M.
	12.10apm 12.30pm 1.30pm 2.30pm	1.30pm	Lunch Keynote Speaker Break	Lunch Keynote: Prof. Cristina Corchero, Chair: Prof. Andy Cruden, Room: Lindsay Stewart Lithium-ion battery, Chair Prof. Linas Opcigan, Room: 1/06		Lunche: Prof. Cristina Corchero, Chair: Prof. Andy Cruden, Room: Lindsay Stewart Policy, Economics and Social Acceptance of EVs, Chair: Dr. Vahid Vahidinasab, Room: 3/03		Aimo Boot Lunch Keynote: Prof. Cristina Corchero, Chair: Prof. Andy Cruden, Room: Lindsay Stewart Charging Station/Energy sources/P26, Chair: Prof. Kasheem Muttaqi, Room: 3/11
			break	Degradation Abatement in Hybrid Electric Vehicles using Data-Driven Technique L Timilsina, B. R. Badr. A. Arsalan, P. H. Hoane, G. Ozkan, B. Papari, C. S. Edrington	65	Policy, Economics and Social Acceptance of EVs, Orani: Dr. Vaniu Variotinasau, Noorii: Strategic integration of electric vehicles: an Australian analysis Scott Dwyer, Ben James, Charlie Hargroves	36	Electrical Architecture for ultrafast charging station David Zambrano-Prada, Alexandra Blanch, José Antonio Barrado-Rodrigo, Luis Vázquez-Seisdedos,
	2.50pm 3.10pm	3.10pm 3.30pm		20 State of power estimation of a lithium-in battery for a formula student vehicle Adriano Schommer, Denise Morrey, Gordana Collier	90	Regional Electric Vehicle Energy Consumption and Carbon Emissions in Great Britain Yazan Al-Wreikat, Jose Sodre	78	Oswaldo Lopez-Santos, Abdelali El Aroudi, Salamero Luis Martínez Integration of Drivers' Routines into Lifecycle Assessment of Electric Vehicles Apostolos Vavouris, Lina Stankovic, Vladimir Stankovic
	3.30pm 3.50p	3 50nm	Parallel sessions	Analysis of electric vehicles battery ageing associated to smart charging controls J. Nájera, J. R. Arribas, R. M. de Castro, H. Mendonca, M. Blanco, G. Navarro, M. Lafoz	16	Commercial fleet vehicle additions and replacements and potential market penetration for electric vehicles Konstadinos Goulias, Hui Shi	94	Investigation of A Cost-Effective Electric Vehicle Charging Station Assisted by A Photovoltaic Solar Energy System Abdullah Dik, Siddig Omer, Rabah Boukhanouf
		4.10pm		68 Mechanical characterization and modelling of lithium-ion batteries Davide Clerici, Aurelio Somà, Francesca Pistorio, Francesco Mocera, Salvatore Martelli				
	4.10pm	4.30pm		Exploring the Relationship between Temperature Gradients and Unbalanced Aging in Parallel- 92 Connected Cells of EV Battery Packs Haosong He, Xiangjie Chen				
	Start time End time						ı	
	8.30am 9.20am	9.20am	Registration Welcome/Housekeeping	Registration Welcome/Housekeeping		Registration Welcome/Housekeeping		Registration Welcome/Housekeeping
	9.30am 10.30am	10.30am 10.50am	Keynote Speaker Break	Keynote: Prof. Anna Stephanopoulou, Chair: Prof. Miadreza Shafiekhah, Room: Lindsay Stewart Battery Range/Efficiency/Management, Chair: Prof. Emma Kendrick, Room: 1/06	Keyn	ote: Prof. Anna Stephanopoulou, Chair: Prof. Miadreza Shafiekhah, Room: Lindsay Stewart Vehicle/Power-to-Grid (V2G/P2G), Chair: Dr Patrick Jochem, Room: 3/03	Key	note: Prof. Anna Stephanopoulou, Chair: Prof. Miadreza Shafiekhah, Room: Lindsay Stewart Policy, Economics and Social Acceptance of EVs, Chair: Prof. Miadreza Shafiekhah, Room: 3/11
Day 2 (22 June)	10.50am	11.10am		g Thermodynamics, heat transfer, and renewable charging of electric vehicles Efstathios Michaelides	22	Systematic Review on Phase-Shift Optimization Strategies of Dual Active Bridge based DC-DC Converter Osama Majeed Butt, Rana Hasnat Ahmed, Muhammad Husnain Ashfaq	8	Long-haul Electric Truck Routing with Coordinated Driver Schedule and Charging Activities: When and Where to Charge XI Cheng, Jane Lin
	11.10am	11.30am		A comparative study of novel designs of liquid-cooled battery thermal management systems Sandeep Joshi, Pranjali Tete Mahendra Gupta	28	Diary-Based Evaluation of Bidirectional Electric Vehicle Charging In a Long-Term Study: Method and Insights Bettina Kaempfe, Corinna Braun	18	Establishment of the national centre for e-vehicle & sustainable technology (EVST) Oliver Shaw, Ian Smith, Mark Busfield
	11.30am	11.50am	Parallel sessions	Optimisation of Electric Vehicle Battery Size Niall Jones, Simon Nazarenus, Konstantinos Stamatis , Andreas Zachariah, Liana Cipcigan	41	EVs and their charging – in or out? User acceptance of bidirectional charging in Germany Vera Fahrner, Moritz Bergfeld, Christine Eisenmann	96	Optimizing Infrastructure for Large-Scale Electrification of Trucks: A Fixed Route Approach Amir Davatgari , Taner Cokyasar, Anirudh Subramanyam, Jeffrey Larson, Abolfazi (Kouros) Mohammadian
	11.50am	12.10am		43 Electric Buses Battery Sizing Optimisation using an Agent-Based Modelling Approach Simon Nazarenus, Konstantinos Stamatis, Liana Cipcigan	72	Exploring the Feasibility of Battery Electric and Fuel Cell Electric Vehicles as Peaker Plant Substitutes in Low Wind and Irradiation Conditions Nies Reininghaus , Tobias Tiedemann, Michael Kröner, Martin Vehse	19	How can sustainable business models and innovative value chains accelerate the transformation of electric vehicles? Rudolf Schnee, Nathalie Kriotchkil, Daniela Chrenko, Reiner Kriesten
	12.10apm	12.30pm		AS1 Parametric study on lead-acid battery in an electric powertralin Daksha Moodbidri Renuka, Axit Ghanshyamnhai Thakar, Gopika Namboothiri, Ahmed Rezk, Jose Sodre	23	Combining urban fleet vehicle operation with reducing energy wastage in light rail systems Fiona McBride, Erica Ballantyne, David Stone	21	Attractiveness and business model potential of the spot market optimized charging of electric vehicles Valerie Ziemsky, Florian Biedenbach
	12.30pm 1.30pm 2.30pm	2.30pm	Lunch Keynote Speaker Break	Lunch Keynote: Prof. Kashem Muttaqi , Chair, Chiana Cipcigan, Room: Lindsay Stewart Incentive and promotion of EVs. Chair: <i>Prof. Miadreza</i> Shafiekhan. Room: 1/06		Lunch Keynote: Prof. Kashem Muttaqi , Chair: Prof. Liana Cipcigan, Room: Lindsay Stewart Grid. Chair: Prof. Phil Blvhe . Room: 3/03		Lunch Keynote: Prof. Kashem Muttaqi, Chair: Prof. Liana Cipcigan, Room: Lindsay Stewart Sustainable Electric Vehicle Design and Operation. Chair: Dr. Vahid Vahidinasab. Room: 3/11
	2.50pm	3.10pm		Carrot or stick? How policy type influences consumer intention to purchase electric vehicles Shaheral Jordan	35	Design of the Community-to-Vehicle-to-Community (CZV2C) for enhanced electro-mobility in photovoltaic energy-sharing building communities Pel Huang	6	Application of solid oxide fuel cells on hybrid electric vehicles operating in fleet Giulia Sandrini, Marco Gadola, Daniel Chindamo
	3.10pm	3.30pm	Parallel sessions	The ongoing electrification in public fleet: lessons learned from the public safety electrification experience in Brazil Marcio Co, Flavia Consoni	64	The Role of EV Parking Lots for Supporting the Distribution System Operation Considering EV Uncertainties Seyed Mahoor Ebrahimi, Minderea Shafiekhah, Hannu Laaksonen	14	Investigating the Impact of Electricity Rationing on Rural EV Charging Thomas McKinney, Erica Ballantyne, David Stone
	3.30pm	3.50pm		77 An overview on charging tariff schemes and incentives: the eCharge4Drivers project Evangelos Karfopoulos, Jaume Roca, Jaume Mata, Angel Lopez, Villy Portouli, Angelos Amditis	82	Indicators for providing carbon impact feedback for EV users Nana Kofi Twum-Duah, Muhammad Salman Shahid, Lucas Hajiro Neves Mosquin, Frédéric Wurtz, Benoît Delinchant	24	Maximizing wireless power transmission for electric vehicles with high-intensity laser power beaming and optical orthogonal frequency division multiplexing Jeongsook Eon, Gunzung Kim, Yongwan Park
	6.30pm	7pm 7.15pm		Arrival/Drinks Reception & entertainment in the Bar and Wilfred Suite, Craiglockhart Guests to be seated in the Chapel				
	7.15pm 9.30p	9.30pm	Dinner	Food service in the Chapel Finish				
Day 3 (23 June)	Start time 8.30am	9.20am	Registration	Registration		Registration		Registration
	9.30am	9.30am 10.30am	Welcome/Housekeeping Keynote Speaker	Welcome/Housekeeping Keynote: Prof. Andrew Cruden, Chair: Prof. Haiping Du, Room: Lindsay Stewart		Welcome/Housekeeping Keynote: Prof. Andrew Cruden, Chair: Prof. Haiping Du, Room: Lindsay Stewart		Welcome/Housekeeping Keynote: Prof. Andrew Cruden , Chair: Prof. Haiping Du, Room: Lindsay Stewart
		10.50am	Break	Battery/Battery management and intermediate storage, Chair: Dr. Vahid Vahidinasab, Room: 1/06 Energy management strategy to limit battery degradation in fuel cell electric vehicles Christoph Hamether, Alessandro Ferara	40	Smart charging, Chair: Dr Patrick Jochem, Room: 3/03 Controlled inductive charging of electric cars has the potential to increase the flexibility and stability of the energy system in Germany	AS3	
		11.10am 11.30am		58 Design of Hybrid Energy Storage System for Heavy Electric Vehicle Hanlin Lei, Kang Li, Benjamin Chong, Shiyun Iiu	45	Moritz Bergfeld, Carsten Hoyer-Kilck, John Erik Anderson, Christine Eisenmann Electric vehicle charging flexibility from representative mobility data: The example of two datasets for passenger and commercial transport in Germany Fabia Miorelli, Hans Christian, Patrick Jochem	33	Pritikesh Bandodkar, Ahmed Rezk, Yu Jia, Jose Sodre Analysis of Axial-Field Flux-Reversal Permanent-Magnet Magnetic-Differential Motors Using Different Iron Materials Tengbo Yang, K. T. Chau, Yao Tang, Zhiwei Xue
		11.30am	Parallel sessions	A circular business model innovation framework for the electric vehicle battery second life Ignat Kulkov, Koteshwar Chirumaila, Frida Antonsson	59	Fabia Miloralii, Hans Lunisdan, Hattick Jochem Unlocking Inter-day Flexibility in Electric Vehicle Charging to Support Future Grids' High Renewable Integration Siobhan Powell	55	Marking Commission Wileston David Transpired for to Valida April and
		11.50am		89 Lithium-ion Battery Packs State-of-Charge Estimation based on Optic Fibre and Equivalent Circuit Model Shiyun liu, Kang Li, Benjamin Chong, Hanlin Lei	80	Examining EV drivers' willingness to share personal information in the context of smart charging: Results of a five-month EV field trail Susen Döbelt, Madlen Günther, Bettina Keemple, Josef F. Krems	AS4	Facilities at the an Davids and Involve and Involve at Florida Adabas
				Novel Loop Heat Pipe System for EV Thermal Management of Batteries: Effects of Ambient Temperatures Marco Bernagozzi, Anastasio Georgoulas, Nicolas Miché, Marco Marengo	37	Susen Dobelt, Madlen Gunther, Bettina Kaempfe, Josef F. Krems Data-driven multi-objective optimisation for electric vehicle charging infrastructure Farzaneh Farhadi, Roberto Palacin, Phil Blythe	47	Feedback Linearization Controller Design for Solid Oxide Fuel Cells Donggil Kim, Jaehoon Kim, Jisoo Kim, Lee Dongik
	12.10apm 12.30pm 1.30pm 2.30pm	1.30pm 2.30pm	Lunch Keynote Speaker Break	wanto eeriaguzzi, missassis teeliguisis, mitoka wittie, marco warengo Lunch Keynote: Prof. Iryna Zenyuk, Chair: Dr Patrick Jochem, Room: Lindsay Stewart Social acceptance of Evs, Chair: Prof. Iryna Zenyuk, Room: 1/06		Lunch Keynote: Prof. Iryna Zenyuk , Chair: Dr Patrick Jochem, Room: Lindsay Stewart Smart charging/V3G, Chair: Dr. Vahld Vahldinasab, Room: 3/03		Lunch Keynote: Prof. Iryna Zenyuk, Chair: Dr Patrick Jochem, Room: Lindsay Stewart Vehicle design/Efficiency and Performance, Chair: Dr Ahmed Rezk, Room: 3/11
			bredK	A framework to explore policy to support adoption of electric vehicles in developing nations: A case 84	83	Smart charging/V26, Chair: Dr. Vahid Vahidinasab, Room: 3/03 Disaggregation of Fast Charging Stations for Energy Management System Using a Single Point Sensing Sami Alshareef	49	Sliding mode control design using pwm modulation method for induction motor speed control
		3.10pm	Parallel sessions	Rachmad Hidayat An autoregressive spatial stochastic frontier analysis to quantify the sales efficiency of the electric vehicle market: An application to 88 demonstration cities in China	87	Modelling the intensity of Electric Vehicle arrivals at charging points Yvenn Amara	88	Rohullah Rahmatullah, Necibe Fusun Oyman Serteller, Ayca Ak Real-time comprehensive condition monitoring technique for SIC MOSFET-based inverters in EV applications
	3.10pm 3.30pm	3.30pm 3.50pm		Andrea Pellegrini, Yao Xusheng, John Rose Social Acceptance and Sustainability Assessment of Light Electric Vehicles in Ghana Oskar Bauer, Frederick Adjel, Eric Mensah, Toblas Pflug, Semih Severengiz	31	Power electronics converters for an electric charging station: description and experimental evaluation Ruben Godoy, Moacyr Brito, Anderson Volpato, Edson Batista	AS2	Javad Naghibi, Kamyar Mehran, Martin Foster Gear Design of Electric Vehicle Powertrain Zaid Alkhatib, Stelvio Slīvia, Fazie Rabby, Dhananjay Singh, Ahmed Rezk, Jose Sodre