



## CONFERENCE PUBLICATIONS

Title of publication	Author(s)	Conference Title / Title of the Journal/Proceedings/Book	Doi and/or link to article on journal/publisher website And/or repository
Experimental Characterization of Lithium-Ion Capacitors for Applications on Road Hybrid Vehicles	Clemente Capasso, Ottorino Veneri	11 <sup>th</sup> International Conference on Applied Energy 2019. 12-15 August 2019. Västerås. Sweden	<a href="http://www.energy-proceedings.org/experimental-characterization-of-lithium-ion-capacitors-for-applications-on-road-hybrid-vehicles/">http://www.energy-proceedings.org/experimental-characterization-of-lithium-ion-capacitors-for-applications-on-road-hybrid-vehicles/</a>
Investigation of Leakage Inductance Influence on Torque Characteristic of Different Types of Induction Machines	Ihor Reva ; Mykhaylo Zagirnyak ; Mario Vukotic ; Damijan Miljavec ; Selma Corovic	2019 IEEE International Conference on Modern Electrical and Energy Systems (MEES). 23-25 September 2019. Kremenchuk, Ukraine	<a href="https://doi.org/10.1109/MEES.2019.8896396">https://doi.org/10.1109/MEES.2019.8896396</a> <a href="https://ieeexplore.ieee.org/document/8896396">https://ieeexplore.ieee.org/document/8896396</a>
European Innovation for Next Generation Electrified Vehicles and Components	Eric Armengaud, Eva Flora Varga, Bernhard Brandstätter, Valentin Ivanov, Reinhard Tatschl, Michele De Gennaro, Aldo Sorniotti, Joeri van Mierlo	The 8th International Conference on Connected Vehicles and Expo (ICCVE), 4-8 November 2019. Graz, Austria	<a href="https://doi.org/10.1109/ICCVE45908.2019.8964843">https://doi.org/10.1109/ICCVE45908.2019.8964843</a> <a href="https://ieeexplore.ieee.org/document/8964843">https://ieeexplore.ieee.org/document/8964843</a>
State of Charge Equalization of Battery Modules Using Single-Phase Cascaded Multilevel Converters	Ashkan Pirooz, Yousef Firouz, Joeri Van Mierlo	9th International Conference on Power and Energy Systems (ICPES 2019) 10 12 December 2019. Perth, Australia	<a href="https://doi.org/10.1109/ICPES47639.2019.9105524">https://doi.org/10.1109/ICPES47639.2019.9105524</a> <a href="https://cris.vub.be/files/48854873/1570563521.pdf">https://cris.vub.be/files/48854873/1570563521.pdf</a> <a href="https://ieeexplore.ieee.org/document/9105524">https://ieeexplore.ieee.org/document/9105524</a>



<p>Virtual Component and System Integration for Efficient Electrified Vehicle Development</p>	<p>Reinhard Tatschl, Zisis Samaras, Philip Scarth, Carlo Beatrice, Mihai Mihaescu, Matteo Rostagno, Angelo Onorati, Gladys Moreac Njeim, Clemens Biet, Xandra Margot, Yousef Firouz, Bernd Deibler, Damijan Miljavec, Marco Plieske</p>	<p>Proceedings of 8th Transport Research Arena TRA 2020, 27-30 April 2020. Helsinki, Finland. Cancelled due to COVID19 pandemic.</p>	<p><a href="https://www.researchgate.net/profile/Reinhard_Tatschl">https://www.researchgate.net/profile/Reinhard_Tatschl</a></p>
<p>Prediction of Driving Cycles by Means of a Co-Simulation Framework for the Evaluation of IC Engine Tailpipe Emissions</p>	<p>Gianluca Montenegro, Angelo Onorati, Gianluca D'Errico, Tarcisio Cerri, Andrea Marinoni, Politecnico di Milano; Vasileios Tziolas, Nikolaos Zingopis, Exothermia SA.</p>	<p>SAE Technical Paper 2020-37-0011 - SAE Conference "CO2 Reduction for Transportation Systems", 7-8 July 2020. Torino, Italy Online due to COVID19 pandemic.</p>	<p><a href="https://doi.org/10.4271/2020-37-0011">https://doi.org/10.4271/2020-37-0011</a> <a href="https://saemobilus.sae.org/content/2020-37-0011">https://saemobilus.sae.org/content/2020-37-0011</a></p>
<p>Assessment and design of real world driving cycles targeted to the calibration of vehicles with electrified powertrain</p>	<p>S. Doulgeris, Z. Toumasatos, M.V. Prati, C. Beatrice, and Z. Samaras</p>	<p>THIESEL2020, 8-11 September 2020. Valencia, Spain. Online due to COVID19 pandemic.</p>	<p><a href="https://riunet.upv.es/handle/10251/150759">https://riunet.upv.es/handle/10251/150759</a></p>
<p>Experimental and numerical investigation of a turbocharger turbine using exergy analysis at non-adiabatic conditions</p>	<p>SM. Lim, S. Kazemi Bakhsmad, C. Biet, M. Mihaescu</p>	<p>SAE Technical Paper 2020-01-2225 SAE 2020 International Powertrains, Fuels &amp; Lubricants Meeting, 22-24 September 2020. Krakow, Poland. Online due to COVID19 pandemic.</p>	<p><a href="https://doi.org/10.4271/2020-01-2225">https://doi.org/10.4271/2020-01-2225</a></p>
<p>Automatic Conversion of a 3D Thermal Model of a Battery Cell into a 1D Lumped-Element Network</p>	<p>Josep Salvador-Iborra, Jürgen Schneider, Reinhard Tatschl</p>	<p>IEEE Vehicle Power and Propulsion Conference (IEEE VPPC 2020), 26-29 Oct.ober 2020. Gijón, Spain. Online due to COVID19 pandemic.</p>	<p><a href="https://doi.org/10.1109/VPPC49601.2020.9330842">https://doi.org/10.1109/VPPC49601.2020.9330842</a></p>



Experimental energy and exergy analysis of an automotive turbocharger using a novel power based approach	Sina K.Bakhshmand, Ly Tai Luu, Clemens Biet	ETC14, European Conference on Turbomachinery, 12-16 April 2021. Gdansk, Poland.	<a href="https://depositonce.tu-berlin.de/handle/11303/13871">https://depositonce.tu-berlin.de/handle/11303/13871</a> <a href="https://www.mdpi.com/1996-1073/14/20/6572">https://www.mdpi.com/1996-1073/14/20/6572</a>
Parallel Fast: An Efficient Coupling Approach for Co-Simulation with Different Coupling Step Sizes	F. Holzinger, K. Schuch, M. Benedikt, D. Watzenig	14th International Modelica Conference, 20-24 September 2021. Linköping, Sweden.	<a href="https://doi.org/10.3384/ecp21181649">https://doi.org/10.3384/ecp21181649</a>
Model based evaluation of lithium ion capacitors use and management for plug-in hybrid vehicles	C. Beatrice, C. Capasso, S. Doulgeris, M. Riccardi, Z. Samaras, O. Veneri	IEEE Vehicular Power and Propulsion Conference (IEEE VPPC 2021), 25-28 October 2021. Gijón, Spain.	<a href="https://ieeexplore.ieee.org/xpl/conhome/1001124/all-proceedings">https://ieeexplore.ieee.org/xpl/conhome/1001124/all-proceedings</a>
Numerical simulation of squirrel cage induction machine	Z. Petranovic, S. Santner, P. Urthaler, C. Fink	IEEE Vehicle Power and Propulsion Conference (IEEE VPPC 2021), 25-28 October 2021. Gijón, Spain.	<a href="https://ieeexplore.ieee.org/xpl/conhome/1001124/all-proceedings">https://ieeexplore.ieee.org/xpl/conhome/1001124/all-proceedings</a>
3D Thermal and 1D Electro-Thermal Model Coupling Framework for Lithium-Ion Battery Cells in Automotive Industry Platforms	A. Pirooz, J. Van Mierlo, M. Bercibar	IEEE Vehicle Power and Propulsion Conference (IEEE VPPC 2021), 25-28 October 2021. Gijón, Spain.	<a href="https://cris.vub.be/ws/portalfiles/portal/79830327/manuscript.pdf">https://cris.vub.be/ws/portalfiles/portal/79830327/manuscript.pdf</a> <a href="https://ieeexplore.ieee.org/xpl/conhome/1001124/all-proceedings">https://ieeexplore.ieee.org/xpl/conhome/1001124/all-proceedings</a>
Electric machine and Inverter Coupled Multi-physical Models'	M. Vukotić, Vahid Sharifi, Valerius Boxberger, Selma Čorović, Bernd Deibler and Damijan Miljavec	IEEE Vehicle Power and Propulsion Conference (IEEE VPPC 2021), 25-28 October 2021. Gijón, Spain.	<a href="https://ieeexplore.ieee.org/xpl/conhome/1001124/all-proceedings">https://ieeexplore.ieee.org/xpl/conhome/1001124/all-proceedings</a>



## JOURNAL PUBLICATIONS

A Novel Design Concept of Electromagnetic Valve Actuator with High Starting Force	Tomaž Munih, Damijan Miljavec and Selma Čorović	Energies 2019, 12 (17)	<a href="https://doi.org/10.3390/en12173300">https://doi.org/10.3390/en12173300</a> <a href="https://www.mdpi.com/1996-1073/12/17/3300">https://www.mdpi.com/1996-1073/12/17/3300</a>
Catalyst Modeling Challenges for Electrified Powertrains	Thomas Souliotis, Grigorios Koltsakis, Zisis Samaras	Catalysts 2021, 11 (5)	<a href="https://doi.org/10.3390/catal11050539">https://doi.org/10.3390/catal11050539</a>
Emissions and energy consumption of a plug-in hybrid passenger car in Real Driving Emission (RDE) test	Maria Vittoria Prati, Maria Antonietta Costagliola, Rocco Giuzio, Carlo Beatrice, Corrado Corsetti	Transportation Engineering 2021, Vol. 4	<a href="https://doi.org/10.1016/j.treng.2021.100069">https://doi.org/10.1016/j.treng.2021.100069</a>
Assessment and Design of Real World Driving Cycles Targeted to the Calibration of Vehicles with Electrified Powertrain	S. Doulgeris, Z. Toumasatos, M.V. Prati, C. Beatrice, and Z. Samaras	THIESEL 2020 IJER Special issue, International Journal of Engine Research 2021, Vol. 22 (12)	<a href="https://doi.org/10.1177/0874211038729">https://doi.org/10.1177/0874211038729</a>
0D/1D Thermo-Fluid Dynamic Modeling Tools for the Simulation of Driving Cycles and the Optimization of IC Engine Performances and Emissions	E. Pisoni, E. Piatti, A. Marinoni, G. D'Errico, A. Onorati, G. Montenegro, T. Cerri	Applied Sciences Journal Special Issue "Advanced Technologies for the Optimization of Internal Combustion Engines" 2021, Vol. 11 (17)	<a href="https://doi.org/10.3390/app1178125">https://doi.org/10.3390/app1178125</a>



Experimental energy and exergy analysis of an automotive turbocharger using a novel power based approach	Sina K.Bakhshmand, Ly Tai Luu, Clemens Biet	Energies 2021, 14 (20) Special Issue <a href="#">Advanced Boosting Systems</a> )	<a href="https://depositonce.tu-berlin.de/handle/11303/13871">https://depositonce.tu-berlin.de/handle/11303/13871</a> <a href="https://www.mdpi.com/1996-1073/14/20/6572">https://www.mdpi.com/1996-1073/14/20/6572</a>
Influence of Pulse Characteristics on Turbocharger Radial Turbine	R. Mosca, S. M. Lim, S., M. Mihaescu	ASME. J. Eng. Gas Turbines Power. 2021, 144(2): 021018.	<a href="https://doi.org/10.1115/1.4052498">https://doi.org/10.1115/1.4052498</a>
Turbocharger Radial Turbine Response to Pulse Amplitude	R. Mosca, S. M. Lim, S., M. Mihaescu	ASME J. Energy Resour. Technol. 2022, 144(8): 082111.	<a href="https://doi.org/10.1115/1.4053346">https://doi.org/10.1115/1.4053346</a>