

Selection of scientific papers – last 5 years

1. [Energy Consumption Prediction of Electric Vehicle Air Conditioning System Using Artificial Intelligence](#) A Sagoian, **BO Varga**, S Solodushkin 2021 Ural Symposium on Biomedical Engineering, Radioelectronics.
2. [Numerical analysis of the influence of the relative position of the drone's rotor inside the nacelle on the airflow dynamics](#) AA Sirca, F Mariasiu, **BO Varga**, S Morariu, IOP Conference Series: Materials Science and Engineering 898 (1), 0120192020
3. [Autonomous shuttle bus for public transportation: A review](#), C Iclodean, N Cordos, **BO Varga**-Energies 13 (11), 2917, 2020
4. [Direct and indirect environmental aspects of an electric bus fleet under service](#), **BO Varga**, F Mariasiu, CD Miclea, I Szabo, AA Sirca, V Nicolae Energies 13 (2), 336,2020
5. [Drag Coefficient Analysis for Side Mirrors of an Electric Vehicle Prototype](#), L Scurtu, AI Borzan, F Mariasiu, N Vlad, **B Varga**, S Morariu-SIAR International Congress of Automotive and Transport Engineering: Science
6. [Numerical analysis of the SOC factor variations' influence on the autonomy of an electric vehicle](#), L Scurtu, **BO Varga**, F Mariasiu, T Buidin, A Borzan, D MoldovanuIOP Conference Series: Materials Science and Engineering 568 (1), 0120462019
7. [Prediction of electric vehicle range: A comprehensive review of current issues and challenges](#) **BO Varga**, A Sagoian, F Mariasiu, Energies 12 (5), 946, 2019
8. [Proceedings of the 4th International Congress of Automotive and Transport Engineering \(AMMA 2018\)](#)N Burnete, **BO Varga**, Springer, 2018
9. [Indirect environment-related effects of electric car vehicles use](#), **BO Varga**, F Mariasiu Environ. Eng. Manag. J 17 (7), 1591-1599, 2018
10. [Van dynamics performance analysis for different battery pack placement](#), D Moldovanu, **BO Varga**, F Mariasiu, C Iclodean, NV Burnete, L Mihali,AMMA 20182018
11. [Effects of battery placement on vehicle stability performance](#), D Moldovanu, **BO Varga**, F Mariasiu, C Iclodean, NV Burnete, L Mihali, AMMA 20182018
12. [Analysis of Range Extended Hybrid Vehicle with Rotary Internal Combustion Engine Using AVL Cruise](#), N Bagameri, **BO Varga**, D Moldovanu, A Csato, D Karamousantas, AMMA 20182018
13. [Optimizing Shifting Schedule and Hardware-In-the-Loop Simulation of a Hybrid Vehicle Based on Dual Clutch Transmission](#), N Bagameri, **BO Varga**, D Moldovanu, A Csato, D Karamousantas, AMMA 20182018, Proceedings of the 11th Edition of the International Congress of Automotive,2018
14. [Optimization of shifting strategy for a dual clutch transmission through mathematical model](#), N Bagameri, **B Varga**, A Csato, D Moldovanu, MATEC Web of Conferences 184, 010212018
15. [Comparative analysis of automatic transmission and manual transmission behaviour on the worldwide harmonized light duty test cycle](#), N Bagameri, **B Varga**, A Csato, D Moldovanu, MATEC Web of Conferences 184, 0102012018
16. [Comparison of different battery types for electric vehicles](#), C Iclodean, **B Varga**, N Burnete, D Cimerdean, B Jurchiş, IOP conference series: materials science and engineering 252 (1), 012058,2017
17. [Digitale Transformation im RDE-Testprozess](#), **B Varga**, F Pfister, ATZextra 22 (2), 24-292017

18. [Validation procedure for worldwide harmonized light vehicles test cycle via hardware in the loop-real time testing](#) **BO Varga**, N Burnete, C Iclodean, International Congress of Automotive and Transport Engineering, 128-135

Selection of Published Books

1. VARGA, B.O., Iclodean, C., Mariaşiu, F., **Electric and Hybrid Buses for Urban Transport - Energy Efficiency Strategies**, ISBN: 978-3-319-41249-8, © Springer International Publishing Switzerland, in press, 2016, 327 pages; DOI: 10.1007/978-3-319-41249-8.

[http://www.springer.com/gp/book/9783319412481;](http://www.springer.com/gp/book/9783319412481)

2. VARGA, B.O., Mariaşiu, F., Moldovanu, D., Iclodean, C., **Electric and Plug-In Hybrid Vehicles – Advanced Simulation Methodologies**, ISBN: 978-3-319-18638-2, © Springer International Publishing Switzerland, 2015, 524 pages; DOI: 10.1007/978-3-319-18639-9.

[http://www.springer.com/gp/book/9783319186382;](http://www.springer.com/gp/book/9783319186382)