Rochdi Trigui

List of Publications by Year
in descending order

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72	2,016	331259	301761
papers	citations	21	39
		h-index	g-index

73	73	73	1719
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimal Power Control for a Variable-Speed Generator Integrated in Series Hybrid Vehicle. IEEE Transactions on Transportation Electrification, 2022, 8, 1302-1312.	5.3	4
2	Designing Hybrid Vehicle Architectures: Utilizing an Automatic Generation and Optimization Approach. IEEE Vehicular Technology Magazine, 2021, 16, 76-85.	2.8	4
3	Smart charging of electric bus fleet minimizing battery degradation at extreme temperature conditions. , 2021, , .		2
4	Annual Variation in Energy Consumption of an Electric Vehicle Used for Commuting. Energies, 2020, 13, 4639.	1.6	11
5	Energy Management of a Multi-Source Vehicle by Î»-Control. Applied Sciences (Switzerland), 2020, 10, 6541.	1.3	12
6	Systematic Methodology for Architecture Generation and Design Optimization of Hybrid Powertrains. IEEE Transactions on Vehicular Technology, 2020, 69, 14846-14857.	3.9	9
7	Optimal Scheduling to Manage an Electric Bus Fleet Overnight Charging. Energies, 2019, 12, 2727.	1.6	53
8	A quadratic programming based optimisation to manage electric bus fleet charging. International Journal of Electric and Hybrid Vehicles, 2019, 11, 289.	0.2	5
9	Engine Cooling System Optimization for Fuel Consumption Reduction. , 2019, , .		1
10	Optimal Charging Strategy to Minimize Electricity Cost and Prolong Battery Life of Electric Bus Fleet. , 2019, , .		5
11	Efficiency Improvement of a Seriesâ€“Parallel Hybrid Electric Powertrain by Topology Modification. IEEE Transactions on Vehicular Technology, 2019, 68, 11523-11531.	3.9	16
12	Impact of the Velocity Profile on Energy Consumption of Electric Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 11420-11426.	3.9	24
13	A quadratic programming based optimisation to manage electric bus fleet charging. International Journal of Electric and Hybrid Vehicles, 2019, 11, 289.	0.2	1
14	Electric Vehicles with Range Extenders: Evaluating the Contribution to the Sustainable Development of Metropolitan Regions. Journal of the Urban Planning and Development Division, ASCE, 2018, 144, .	0.8	12
15	Driving Style Modelling for Eco-driving Applications. IFAC-PapersOnLine, 2017, 50, 13866-13871.	0.5	18
16	Power Hardware-In-the-Loop simulation for testing multi-source vehicles. IFAC-PapersOnLine, 2017, 50, 10971-10976.	0.5	3
17	Comparison of Different Models for Electric Vehicle with Heating System. , 2017, , .		2
18	Improvement of a Series-Parallel Hybrid Electric Vehicle Architecture. , 2017, , .		3

#	Article	IF	Citations
19	Multi-Objective Optimisation of the Management of Electric Bus Fleet Charging. , 2017, , .		9
20	H&HIL: A Novel Tool to Test Control Strategy with Human and Hardware In the Loop. , 2017, , .		0
21	Eco-driving: potential fuel economy for post-manufactured hybrid vehicles. International Journal of Electric and Hybrid Vehicles, 2016, 8, 321.	0.2	3
22	Decomposed Energy Management of a Multi-Source Fuel Cell Vehicle Using Energetic Macroscopic Representation. , 2016, , .		2
23	Comparison of energy management strategies of a battery/supercapacitors system for electric vehicle under real-time constraints. Applied Energy, 2016, 163, 190-200.	5.1	221
24	Practical control schemes of a battery/supercapacitor system for electric vehicle. IET Electrical Systems in Transportation, 2016, 6, 20-26.	1.5	29
25	Global Optimized Design of an Electric Variable Transmission for HEVs. IEEE Transactions on Vehicular Technology, 2016, 65, 6794-6798.	3.9	30
26	Eco-Driving Rules Extraction from a Model Based Optimization for a New Generation EV. , 2015, , .		1
27	Electric vehicle shortest path problem with replenishment constraint. , 2014, , .		4
28	Energy management in EVs using battery and supercapacitors: Algebraic loop issue. , 2014, , .		5
29	Electric Vehicle green routing with possible en-route recharging. , 2014, , .		9
30	Different Control Schemes of a Battery/Supercapacitor System in Electric Vehicle. , 2014, , .		4
31	Improvement of an EVT-Based HEV Using Dynamic Programming. IEEE Transactions on Vehicular Technology, 2014, 63, 40-50.	3.9	71
32	Efficient Allocation of Electric Vehicles Charging Stations: Optimization Model and Application to a Dense Urban Network. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 33-43.	2.6	97
33	Eco-driving: An economic or ecologic driving style?. Transportation Research Part C: Emerging Technologies, 2014, 38, 110-121.	3.9	96
34	Ecodriving. From processing the ideal speed profile to its use during driving activity. European Journal of Electrical Engineering, 2014, 17, 397-418.	1.1	0
35	Optimal energy management of HEVs with hybrid storage system. Energy Conversion and Management, 2013, 76, 437-452.	4.4	108
36	Implementation and test of a hybrid storage system on an electric urban bus. Transportation Research Part C: Emerging Technologies, 2013, 30, 55-66.	3.9	27

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37	Trajectory optimization for eco-driving taking into account traffic constraints. Transportation Research, Part D: Transport and Environment, 2013, 18, 55-61.	3.2	106
38	Are vehicle trajectories simulated by dynamic traffic models relevant for estimating fuel consumption?. Transportation Research, Part D: Transport and Environment, 2013, 24, 17-26.	3.2	13
39	Flexible realâ€time control of a hybrid energy storage system for electric vehicles. IET Electrical Systems in Transportation, 2013, 3, 79-85.	1.5	75
40	Trajectory optimisation for eco-driving - an experimentally verified optimisation method. International Journal of Vehicle Systems Modelling and Testing, 2013, 8, 295.	0.1	5
41	Field Weakening Control of a PM Electric Variable Transmission for HEV. Journal of Electrical Engineering and Technology, 2013, 8, 1096-1106.	1.2	7
42	Optimal Management and Comparison of SP-HEV vehicles using the dynamic programming method. , 2012, , .		4
43	Vehicle trajectory optimization for hybrid vehicles taking into account battery state-of-charge. , 2012, , .		15
44	Battery duty profile of a heavy-duty trolleybus. , 2012, , .		0
45	How Simplifying Urban Driving Cycles Influence Fuel Consumption Estimation?. Procedia, Social and Behavioral Sciences, 2012, 48, 1000-1009.	0.5	4
46	Predictive energy management for hybrid vehicle. Control Engineering Practice, 2012, 20, 408-420.	3.2	98
47	Vehicle trajectory optimization for application in ECO-driving. , 2011, , .		80
48	PHIL Implementation of Energy Management Optimization for a Parallel HEV on a Predefined Route. IEEE Transactions on Vehicular Technology, 2011, 60, 782-792.	3.9	55
49	Specifications and Design of a PM Electric Variable Transmission for Toyota Prius II. IEEE Transactions on Vehicular Technology, 2011, 60, 4106-4114.	3.9	98
50	Guest Editorial Special Section on Advanced Transportation Systems. IEEE Transactions on Vehicular Technology, 2011, 60, 4102-4105.	3.9	5
51	Inversion-based control of a vehicle with a clutch using a switched causal modelling. International Journal of Systems Science, 2011, 42, 319-334.	3.7	2
52	Inversion-based control of a PM electric variable transmission. , 2011, , .		6
53	Modeling power semiconductor losses in HEV powertrains using Si and SiC devices. , 2010, , .		29
54	Design of a permanent magnet electric variable transmission for HEV applications. , 2010, , .		15

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55	A common model validation in the case of the Toyota Prius II. , 2010, , .		7
56	Optimal management of electric vehicles with a hybrid storage system. , 2010, , .		18
57	Offline optimization for components sizing and analysis of a plug-in hybrid urban microbus. , 2009, , .		5
58	Global modeling of different vehicles. IEEE Vehicular Technology Magazine, 2009, 4, 80-89.	2.8	64
59	Performance Comparison of Three Storage Systems for Mild HEVs Using PHIL Simulation. IEEE Transactions on Vehicular Technology, 2009, 58, 3959-3969.	3.9	30
60	Predictive control for HEV energy management: experimental results. , 2009, , .		27
61	Influence of control strategies on battery/supercapacitor hybrid Energy Storage Systems for traction applications. , 2009, , .		89
62	Switched Causal Modeling of Transmission With Clutch in Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2008, 57, 2081-2088.	3.9	43
63	Model simulation, validation and case study of the 2004 THS of Toyota Prius. International Journal of Vehicle Systems Modelling and Testing, 2008, 3, 139.	0.1	45
64	Predictive energy management of hybrid vehicle. , 2008, , .		10
65	Global modeling of different vehicles using Energetic Macroscopic Representation. , 2008, , .		25
66	Influence of Control Design on Energetic Performances of an Electric Vehicle. , 2007, , .		6
67	Validation of Mechanical Transmission with Clutch using Hardware-In-the-Loop Simulation. , 2007, , .		6
68	Hardware In the Loop Simulation of a Diesel Parallel Mild-Hybrid Electric Vehicle. , 2007, , .		15
69	HEVs Comparison and Components Sizing Using Dynamic Programming. , 2007, , .		20
70	Switched Causal Modeling of Transmission with Clutch in Hybrid Electric Vehicles. , 2006, , .		4
71	Global optimisation of energy management laws in hybrid vehicles using dynamic programming. International Journal of Vehicle Design, 2005, 39, 349.	0.1	55
72	ModÃ©lisation systÃ©mique de vÃ©hicules hybrides en vue de la prÃ©diction de leurs performances Ã©nergÃ©tiques et dynamiques. Construction de la bibliothÃ¨que de modÃ¨les VEHLIB. Recherche - Transports - Securite, 2004, 21, 129-150.	0.1	29