

# Rochdi Trigui

## List of Publications by Year in descending order

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72  
papers

2,016  
citations

331259

21  
h-index

301761

39  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1719  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Optimal energy management of HEVs with hybrid storage system. Energy Conversion and Management, 2013, 76, 437-452.	4.4	108
3	Trajectory optimization for eco-driving taking into account traffic constraints. Transportation Research, Part D: Transport and Environment, 2013, 18, 55-61.	3.2	106
4	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
5	Predictive energy management for hybrid vehicle. Control Engineering Practice, 2012, 20, 408-420.	3.2	98
6	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
7	Eco-driving: An economic or ecologic driving style?. Transportation Research Part C: Emerging Technologies, 2014, 38, 110-121.	3.9	96
8	Influence of control strategies on battery/supercapacitor hybrid Energy Storage Systems for traction applications. , 2009, , .		89
9	Vehicle trajectory optimization for application in ECO-driving. , 2011, , .		80
10	Flexible real-time control of a hybrid energy storage system for electric vehicles. IET Electrical Systems in Transportation, 2013, 3, 79-85.	1.5	75
11	Improvement of an EVT-Based HEV Using Dynamic Programming. IEEE Transactions on Vehicular Technology, 2014, 63, 40-50.	3.9	71
12	Global modeling of different vehicles. IEEE Vehicular Technology Magazine, 2009, 4, 80-89.	2.8	64
13	Global optimisation of energy management laws in hybrid vehicles using dynamic programming. International Journal of Vehicle Design, 2005, 39, 349.	0.1	55
14	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
15	Optimal Scheduling to Manage an Electric Bus Fleet Overnight Charging. Energies, 2019, 12, 2727.	1.6	53
16	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
17	Switched Causal Modeling of Transmission With Clutch in Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2008, 57, 2081-2088.	3.9	43
18	Performance Comparison of Three Storage Systems for Mild HEVs Using PHIL Simulation. IEEE Transactions on Vehicular Technology, 2009, 58, 3959-3969.	3.9	30

#	ARTICLE	IF	CITATIONS
19	Global Optimized Design of an Electric Variable Transmission for HEVs. IEEE Transactions on Vehicular Technology, 2016, 65, 6794-6798.	3.9	30
20	Modeling power semiconductor losses in HEV powertrains using Si and SiC devices. , 2010, , .		29
21	Practical control schemes of a battery/supercapacitor system for electric vehicle. IET Electrical Systems in Transportation, 2016, 6, 20-26.	1.5	29
22	Modélisation systématique de véhicules hybrides en vue de la prédiction de leurs performances énergétiques et dynamiques. Construction de la bibliothèque de modèles VEHLIB. Recherche - Transports - Securite, 2004, 21, 129-150.	0.1	29
23	Predictive control for HEV energy management: experimental results. , 2009, , .		27
24	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
25	Global modeling of different vehicles using Energetic Macroscopic Representation. , 2008, , .		25
26	Impact of the Velocity Profile on Energy Consumption of Electric Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 11420-11426.	3.9	24
27	HEVs Comparison and Components Sizing Using Dynamic Programming. , 2007, , .		20
28	Optimal management of electric vehicles with a hybrid storage system. , 2010, , .		18
29	Driving Style Modelling for Eco-driving Applications. IFAC-PapersOnLine, 2017, 50, 13866-13871.	0.5	18
30	Efficiency Improvement of a Series-Parallel Hybrid Electric Powertrain by Topology Modification. IEEE Transactions on Vehicular Technology, 2019, 68, 11523-11531.	3.9	16
31	Hardware In the Loop Simulation of a Diesel Parallel Mild-Hybrid Electric Vehicle. , 2007, , .		15
32	Design of a permanent magnet electric variable transmission for HEV applications. , 2010, , .		15
33	Vehicle trajectory optimization for hybrid vehicles taking into account battery state-of-charge. , 2012, , .		15
34	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
35	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
36	Energy Management of a Multi-Source Vehicle by $\hat{I}$ -Control. Applied Sciences (Switzerland), 2020, 10, 6541.	1.3	12

#	ARTICLE	IF	CITATIONS
37	Annual Variation in Energy Consumption of an Electric Vehicle Used for Commuting. Energies, 2020, 13, 4639.	1.6	11
38	Predictive energy management of hybrid vehicle. , 2008, , .		10
39	Electric Vehicle green routing with possible en-route recharging. , 2014, , .		9
40	Multi-Objective Optimisation of the Management of Electric Bus Fleet Charging. , 2017, , .		9
41	Systematic Methodology for Architecture Generation and Design Optimization of Hybrid Powertrains. IEEE Transactions on Vehicular Technology, 2020, 69, 14846-14857.	3.9	9
42	A common model validation in the case of the Toyota Prius II. , 2010, , .		7
43	Field Weakening Control of a PM Electric Variable Transmission for HEV. Journal of Electrical Engineering and Technology, 2013, 8, 1096-1106.	1.2	7
44	Influence of Control Design on Energetic Performances of an Electric Vehicle. , 2007, , .		6
45	Validation of Mechanical Transmission with Clutch using Hardware-In-the-Loop Simulation. , 2007, , .		6
46	Inversion-based control of a PM electric variable transmission. , 2011, , .		6
47	Offline optimization for components sizing and analysis of a plug-in hybrid urban microbus. , 2009, , .		5
48	Guest Editorial Special Section on Advanced Transportation Systems. IEEE Transactions on Vehicular Technology, 2011, 60, 4102-4105.	3.9	5
49	Trajectory optimisation for eco-driving - an experimentally verified optimisation method. International Journal of Vehicle Systems Modelling and Testing, 2013, 8, 295.	0.1	5
50	Energy management in EVs using battery and supercapacitors: Algebraic loop issue. , 2014, , .		5
51	A quadratic programming based optimisation to manage electric bus fleet charging. International Journal of Electric and Hybrid Vehicles, 2019, 11, 289.	0.2	5
52	Optimal Charging Strategy to Minimize Electricity Cost and Prolong Battery Life of Electric Bus Fleet. , 2019, , .		5
53	Switched Causal Modeling of Transmission with Clutch in Hybrid Electric Vehicles. , 2006, , .		4
54	Optimal Management and Comparison of SP-HEV vehicles using the dynamic programming method. , 2012, , .		4

#	ARTICLE	IF	CITATIONS
55	How Simplifying Urban Driving Cycles Influence Fuel Consumption Estimation?. Procedia, Social and Behavioral Sciences, 2012, 48, 1000-1009.	0.5	4
56	Electric vehicle shortest path problem with replenishment constraint. , 2014, , .		4
57	Different Control Schemes of a Battery/Supercapacitor System in Electric Vehicle. , 2014, , .		4
58	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
59	Designing Hybrid Vehicle Architectures: Utilizing an Automatic Generation and Optimization Approach. IEEE Vehicular Technology Magazine, 2021, 16, 76-85.	2.8	4
60	Eco-driving: potential fuel economy for post-manufactured hybrid vehicles. International Journal of Electric and Hybrid Vehicles, 2016, 8, 321.	0.2	3
61	Power Hardware-In-the-Loop simulation for testing multi-source vehicles. IFAC-PapersOnLine, 2017, 50, 10971-10976.	0.5	3
62	Improvement of a Series-Parallel Hybrid Electric Vehicle Architecture. , 2017, , .		3
63	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
64	Decomposed Energy Management of a Multi-Source Fuel Cell Vehicle Using Energetic Macroscopic Representation. , 2016, , .		2
65	Comparison of Different Models for Electric Vehicle with Heating System. , 2017, , .		2
66	Smart charging of electric bus fleet minimizing battery degradation at extreme temperature conditions. , 2021, , .		2
67	Eco-Driving Rules Extraction from a Model Based Optimization for a New Generation EV. , 2015, , .		1
68	Engine Cooling System Optimization for Fuel Consumption Reduction. , 2019, , .		1
69	A quadratic programming based optimisation to manage electric bus fleet charging. International Journal of Electric and Hybrid Vehicles, 2019, 11, 289.	0.2	1
70	Battery duty profile of a heavy-duty trolleybus. , 2012, , .		0
71	H&HIL: A Novel Tool to Test Control Strategy with Human and Hardware In the Loop. , 2017, , .		0
72	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