

Namwook Kim

List of Publications by Year in descending order

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39
papers

1,491
citations

516710

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526287

27
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39
all docs

39
docs citations

39
times ranked

895
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Control of Hybrid Electric Vehicles Based on Pontryagin's Minimum Principle. IEEE Transactions on Control Systems Technology, 2011, 19, 1279-1287.	5.2	614
2	Optimal Equivalent Fuel Consumption for Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2012, 20, 817-825.	5.2	128
3	A jump condition of PMP-based control for PHEVs. Journal of Power Sources, 2011, 196, 10380-10386.	7.8	68
4	Sufficient conditions of optimal control based on Pontryagin's minimum principle for use in hybrid electric vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2012, 226, 1160-1170.	1.9	66
5	Comparative Analysis of Energy Management Strategies for HEV: Dynamic Programming and Reinforcement Learning. IEEE Access, 2020, 8, 67112-67123.	4.2	66
6	Autonomie Model Validation with Test Data for 2010 Toyota Prius. , 0, , .		54
7	Validating Volt PHEV Model with Dynamometer Test Data Using Autonomie. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 6, 985-992.	0.4	43
8	Model-Based Reinforcement Learning for Eco-Driving Control of Electric Vehicles. IEEE Access, 2020, 8, 202886-202896.	4.2	42
9	Adaptive Energy Management Strategy for Plug-in Hybrid Electric Vehicles with Pontryagin's Minimum Principle Based on Daily Driving Patterns. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 539-548.	4.9	37
10	An Adaptive Concept of PMP-Based Control for Saving Operating Costs of Extended-Range Electric Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 11505-11512.	6.3	36
11	Comparison between Rule-Based and Instantaneous Optimization for a Single-Mode, Power-Split HEV. , 0, , .		35
12	Energy efficient speed planning of electric vehicles for car-following scenario using model-based reinforcement learning. Applied Energy, 2022, 313, 118460.	10.1	32
13	Vehicle-level control analysis of 2010 Toyota Prius based on test data. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2012, 226, 1483-1494.	1.9	31
14	Online Data-Driven Energy Management of a Hybrid Electric Vehicle Using Model-Based Q-Learning. IEEE Access, 2020, 8, 84444-84454.	4.2	30
15	Development of PMP-based power management strategy for a parallel hybrid electric bus. International Journal of Precision Engineering and Manufacturing, 2014, 15, 345-353.	2.2	24
16	A Real-Time Intelligent Energy Management Strategy for Hybrid Electric Vehicles Using Reinforcement Learning. IEEE Access, 2021, 9, 72759-72768.	4.2	21
17	A Speedy Reinforcement Learning-Based Energy Management Strategy for Fuel Cell Hybrid Vehicles Considering Fuel Cell System Lifetime. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 859-872.	4.9	20
18	Optimization of power management among an engine, battery and ultra-capacitor for a series HEV: A dynamic programming application. International Journal of Automotive Technology, 2017, 18, 891-900.	1.4	19

#	ARTICLE	IF	CITATIONS
19	Thermal impact on the control and the efficiency of the 2010 Toyota Prius hybrid electric vehicle. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2016, 230, 82-92.	1.9	17
20	Methodology for Finding Maximum Performance and Improvement Possibility of Rule-Based Control for Parallel Type-2 Hybrid Electric Vehicles. Energies, 2019, 12, 1924.	3.1	14
21	Control Analysis and Thermal Model Development for Plug-In Hybrid Electric Vehicles. SAE International Journal of Alternative Powertrains, 0, 4, 260-268.	0.8	13
22	A Hybrid Energy Storage System for an Electric Vehicle and Its Effectiveness Validation. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 1739-1754.	4.9	12
23	Control Analysis of a Real-World P2 Hybrid Electric Vehicle Based on Test Data. Energies, 2020, 13, 4092.	3.1	9
24	Analysis of Transmission Efficiency of a Plug-In Hybrid Vehicle Based on Operating Modes. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 165-175.	4.9	8
25	Development of PMP-Based Power Management Strategy for a Series Hybrid Electric Bus. , 2014, , .		7
26	Performance Analysis of Electric Drive System on Hyundai Ioniq EV. Transactions of the Korean Society of Automotive Engineers, 2019, 27, 69-76.	0.3	7
27	Optimal Control Strategy for PHEVs Using Prediction of Future Driving Schedule. World Electric Vehicle Journal, 2012, 5, 149-158.	3.0	6
28	An Adaptive Energy Management Strategy for Extended-Range Electric Vehicles Based on Pontryagin's Minimum Principle. , 2018, , .		6
29	Evaluation of Charging Mileage of Electric Vehicle Using Battery Module. Transactions of the Korean Society of Automotive Engineers, 2019, 27, 645-652.	0.3	5
30	Designing and manufacturing of Formula SAE-Hybrid racecar for a new engineering education program. , 2010, , .		4
31	Collision tests and model development of a train coupling system using a high-capacity energy absorber. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 2215-2227.	2.0	4
32	Data-Driven Analysis of the Correlation of Future Information and Costates for PMP-based Energy Management Strategy of Hybrid Electric Vehicle. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 873-883.	4.9	4
33	Performance Tests of a High Capacity Buffer Coupling System using a Hydraulic Device. Journal of the Korean Society of Safety, 2016, 31, 33-40.	0.0	3
34	Fuel economy analysis of a parallel hybrid bus using the optimal control theory. , 2011, , .		2
35	A Real-Time Intelligent Speed Optimization Planner Using Reinforcement Learning. , 0, , .		2
36	A method for solving causality conflicts in vehicle powertrain modeling. Journal of Mechanical Science and Technology, 2019, 33, 1523-1533.	1.5	1

#	ARTICLE	IF	CITATIONS
37	Receding Horizon Control of Cooling Systems for Large-Size Uninterruptible Power Supply Based on a Metal-Air Battery System. Energies, 2020, 13, 1611.	3.1	1
38	Generic Representations for Hybrid Powertrain Configurations. International Journal of Automotive Technology, 2021, 22, 1683-1693.	1.4	0
39	Analysis of Powertrain Efficiency of a Multi-Mode Hybrid Electric Vehicle Based on Operating Modes. , 2020, , .		0