

Dongsuk Kum

List of Publications by Year in descending order

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56
papers

2,041
citations

331670

21
h-index

315739

38
g-index

56
all docs

56
docs citations

56
times ranked

1996
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Design Space Exploration of Multi-Mode, Two-Planetary-Gear, Power-Split Hybrid Electric Powertrains via Virtual Levers. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3498-3509.	8.0	6
2	Autonomous Vehicle Cut-In Algorithm for Lane-Merging Scenarios via Policy-Based Reinforcement Learning Nested Within Finite-State Machine. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 17594-17606.	8.0	23
3	Energy saving potentials of a photovoltaic assisted heat pump for hybrid building heating system via optimal control. Journal of Building Engineering, 2020, 27, 100854.	3.4	17
4	Systematic Design of Input- and Output-Split Hybrid Electric Vehicles With a Speed Reduction/Multiplication Gear Using Simplified-Lever Model. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 3799-3810.	8.0	12
5	A survey of powertrain configuration studies on hybrid electric vehicles. Applied Energy, 2020, 262, 114553.	10.1	135
6	Camera and Radar Sensor Fusion for Robust Vehicle Localization via Vehicle Part Localization. IEEE Access, 2020, 8, 75223-75236.	4.2	29
7	RECUP Net: RECURsive Prediction Network for Surrounding Vehicle Trajectory Prediction with Future Trajectory Feedback. , 2020, , .		10
8	Optimal Path Tracking Control of Autonomous Vehicle: Adaptive Full-State Linear Quadratic Gaussian (LQG) Control. IEEE Access, 2019, 7, 109120-109133.	4.2	76
9	Comprehensive Design Methodology of Compound-Split Hybrid Electric Vehicles: Introduction of the Compound Lever as a Design Tool. IEEE Access, 2019, 7, 84744-84756.	4.2	8
10	Complete design space exploration of isolated hybrid renewable energy system via dynamic programming. Energy Conversion and Management, 2019, 196, 920-934.	9.2	12
11	Predictive Cruise Control Using Radial Basis Function Network-Based Vehicle Motion Prediction and Chance Constrained Model Predictive Control. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3832-3843.	8.0	22
12	The Impact of Energy Dispatch Strategy on Design Optimization of Hybrid Renewable Energy Systems. , 2019, , .		5
13	Birdâ€™s eye view localization of surrounding vehicles: Longitudinal and lateral distance estimation with partial appearance. Robotics and Autonomous Systems, 2019, 112, 178-189.	5.1	6
14	Collision Avoidance/Mitigation System: Motion Planning of Autonomous Vehicle via Predictive Occupancy Map. IEEE Access, 2019, 7, 52846-52857.	4.2	56
15	Development of Control Strategy of Hybrid Electric Truck with Manual Transmission. , 2019, , .		0
16	Development of cell selection framework for second-life cells with homogeneous properties. International Journal of Electrical Power and Energy Systems, 2019, 105, 429-439.	5.5	28
17	Synthesis of Robust Lane Keeping Systems: Impact of Controller and Design Parameters on System Performance. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3129-3141.	8.0	25
18	Robust multi-lane detection and tracking using adaptive threshold and lane classification. Machine Vision and Applications, 2019, 30, 111-124.	2.7	33

#	ARTICLE	IF	CITATIONS
19	Charging Automation for Electric Vehicles: Is a Smaller Battery Good for the Wireless Charging Electric Vehicles?. IEEE Transactions on Automation Science and Engineering, 2019, 16, 486-497.	5.2	62
20	Collision Risk Assessment Algorithm via Lane-Based Probabilistic Motion Prediction of Surrounding Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2965-2976.	8.0	80
21	Automatic Generation of Design Space Conversion Maps and Its Application for the Design of Compound Split Hybrid Powertrains. Journal of Mechanical Design, Transactions of the ASME, 2018, 140, .	2.9	11
22	Magnetic flux waveform estimation for fast efficiency map calculation in permanent magnet synchronous motors. International Journal of Applied Electromagnetics and Mechanics, 2018, 56, 373-386.	0.6	4
23	Feasibility Analysis and Performance Evaluation of a Novel Power-Split Flywheel Hybrid Vehicle. Energies, 2018, 11, 1744.	3.1	3
24	Synthesis of Predictive Equivalent Consumption Minimization Strategy for Hybrid Electric Vehicles Based on Closed-Form Solution of Optimal Equivalence Factor. IEEE Transactions on Vehicular Technology, 2017, 66, 5604-5616.	6.3	51
25	Automatic Enumeration of Feasible Kinematic Diagrams for Split Hybrid Configurations With a Single Planetary Gear. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	2.9	14
26	Feature-based lateral position estimation of surrounding vehicles using stereo vision. , 2017, , .		2
27	Modeling and Control Problems in Sustainable Transportation and Power Systems. Mathematical Problems in Engineering, 2016, 2016, 1-3.	1.1	4
28	The impact of inhomogeneous particle size distribution on Li-ion cell performance under galvanostatic and transient loads. , 2016, , .		2
29	The multilayer perceptron approach to lateral motion prediction of surrounding vehicles for autonomous vehicles. , 2016, , .		65
30	Robust control of heterogeneous vehicular platoon with uncertain dynamics and communication delay. IET Intelligent Transport Systems, 2016, 10, 503-513.	3.0	169
31	Comprehensive Design Methodology of Input- and Output-Split Hybrid Electric Vehicles: In Search of Optimal Configuration. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2912-2923.	5.8	67
32	Feasibility Assessment and Design Optimization of a Clutchless Multimode Parallel Hybrid Electric Powertrain. IEEE/ASME Transactions on Mechatronics, 2016, 21, 774-786.	5.8	20
33	Efficient and accurate computation of model predictive control using pseudospectral discretization. Neurocomputing, 2016, 177, 363-372.	5.9	14
34	Sensitivity analysis for assessing robustness of position-based predictive energy management strategy for fuel cell hybrid electric vehicle. World Electric Vehicle Journal, 2015, 7, 330-341.	3.0	2
35	A comprehensive design methodology of organic Rankine cycles for the waste heat recovery of automotive heavy-duty diesel engines. Applied Thermal Engineering, 2015, 87, 574-585.	6.0	94
36	Synthesis of multiple model switching controllers using  overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	5.9	20

#	ARTICLE	IF	CITATIONS
37	Economic Analysis of the Dynamic Charging Electric Vehicle. IEEE Transactions on Power Electronics, 2015, 30, 6368-6377.	7.9	263
38	Simplification of pseudo two dimensional battery model using dynamic profile of lithium concentration. Journal of Power Sources, 2015, 286, 510-525.	7.8	47
39	A Study on How to Utilize Hilly Road Information in Equivalent Consumption Minimization Strategy of FCHEVs. SAE International Journal of Alternative Powertrains, 2014, 3, 72-77.	0.8	3
40	Design optimization of the OLEV system considering battery lifetime. , 2014, , .		3
41	Systematic Configuration Selection Methodology of Power-Split Hybrid Electric Vehicles With a Single Planetary Gear. , 2014, , .		8
42	Optimal adaptation of equivalent factor of equivalent consumption minimization strategy for fuel cell hybrid electric vehicles under active state inequality constraints. Journal of Power Sources, 2014, 267, 491-502.	7.8	116
43	Automated Schematic Design of Power-Split Hybrid Vehicles With a Single Planetary Gear. , 2014, , .		2
44	Optimal Energy and Catalyst Temperature Management of Plug-in Hybrid Electric Vehicles for Minimum Fuel Consumption and Tail-Pipe Emissions. IEEE Transactions on Control Systems Technology, 2013, 21, 14-26.	5.2	74
45	Extended Single Particle Model of Li-Ion Batteries Towards High Current Applications. , 2013, , .		17
46	Control of Engine-Starts for Optimal Drivability of Parallel Hybrid Electric Vehicles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	1.6	43
47	Dynamic Modeling of the Organic Rankine Cycle for the Waste Heat Recovery of Internal Combustion Engines. , 2012, , .		0
48	Prius^{+} and Volt^{-} : Configuration Analysis of Power-Split Hybrid Vehicles With a Single Planetary Gear. IEEE Transactions on Vehicular Technology, 2012, 61, 3544-3552.	6.3	162
49	Optimal Control of Engine-Starts for Drivability of Parallel Hybrid Electric Vehicles. , 2011, , .		1
50	Supervisory Control of Parallel Hybrid Electric Vehicles for Fuel and Emission Reduction. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, .	1.6	79
51	Optimal catalyst temperature management of Plug-in Hybrid Electric Vehicles. , 2011, , .		1
52	Modeling and Control of Hybrid Electric Vehicles for Fuel and Emission Reduction. , 2008, , .		7
53	Robust Control of Active Suspensions. , 2007, , .		1
54	Optimal Engine Starts of an Input-Split Hybrid Electric Vehicle. SAE International Journal of Alternative Powertrains, 0, 4, 343-351.	0.8	12

#	ARTICLE	IF	CITATIONS
55	Compound Lever Based Optimal Configuration Selection of Compound-Split Hybrid Vehicles. , 0, , .		10
56	Impact of Speed Reduction (Multiplication) Gear on the Performance of Input- and Output-Split Hybrid Electric Vehicles. , 0, , .		5