Chao Yang

List of Publications by Year
in descending order

76	2,821	172457	189892
papers	citations	29	50
		h-index	g-index

76	76	76	1908
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Correctional DP-Based Energy Management Strategy of Plug-In Hybrid Electric Bus for City-Bus Route. IEEE Transactions on Vehicular Technology, 2015, 64, 2792-2803.	6.3	206
2	Model predictive control-based efficient energy recovery control strategy for regenerative braking system of hybrid electric bus. Energy Conversion and Management, 2016, 111, 299-314.	9.2	157
3	Adaptive real-time optimal energy management strategy based on equivalent factors optimization for plug-in hybrid electric vehicle. Applied Energy, 2017, 203, 883-896.	10.1	135
4	Efficient energy management strategy for hybrid electric vehicles/plug-in hybrid electric vehicles: review and recent advances under intelligent transportation system. IET Intelligent Transport Systems, 2020, 14, 702-711.	3.0	135
5	Design of a Janus F-TiO$_2$@PPS Porous Membrane with Asymmetric Wettability for Switchable Oil/Water Separation. ACS Applied Materials & Interfaces, 2019, 11, 22408-22418.	8.0	122
6	Performance characterization and enhancement mechanism of recycled asphalt mixtures involving high RAP content and steel slag. Journal of Cleaner Production, 2022, 336, 130484.	9.3	92
7	A Stochastic Predictive Energy Management Strategy for Plug-in Hybrid Electric Vehicles Based on Fast Rolling Optimization. IEEE Transactions on Industrial Electronics, 2020, 67, 9659-9670.	7.9	90
8	Scalable Fabrication of Crystalline COF Membranes from Amorphous Polymeric Membranes. Angewandte Chemie - International Edition, 2021, 60, 18051-18058.	13.8	81
9	Cloud computing-based energy optimization control framework for plug-in hybrid electric bus. Energy, 2017, 125, 11-26.	8.8	78
10	Robust coordinated control for hybrid electric bus with single-shaft parallel hybrid powertrain. IET Control Theory and Applications, 2015, 9, 270-282.	2.1	73
11	A hybrid algorithm combining EKF and RLS in synchronous estimation of road grade and vehicle×³ mass for a hybrid electric bus. Mechanical Systems and Signal Processing, 2016, 68-69, 416-430.	8.0	67
12	Electrostatic Assembly of a Titanium Dioxide@Hydrophilic Poly(phenylene sulfide) Porous Membrane with Enhanced Wetting Selectivity for Separation of Strongly Corrosive Oil–Water Emulsions. ACS Applied Materials & Interfaces, 2019, 11, 35479-35487.	8.0	62
13	Enhancement mechanism of skid resistance in preventive maintenance of asphalt pavement by steel slag based on micro-surfacing. Construction and Building Materials, 2020, 239, 117870.	7.2	59
14	Superhydrophobic Covalent Organic Frameworks Prepared via Pore Surface Modifications for Functional Coatings under Harsh Conditions. ACS Applied Materials & Interfaces, 2020, 12, 2926-2934.	8.0	59
15	A robust H∞ control-based hierarchical mode transition control system for plug-in hybrid electric vehicle. Mechanical Systems and Signal Processing, 2018, 99, 326-344.	8.0	58
16	Efficient Mode Transition Control for Parallel Hybrid Electric Vehicle With Adaptive Dual-Loop Control Framework. IEEE Transactions on Vehicular Technology, 2020, 69, 1519-1532.	6.3	56
17	An Intelligent Lane-Changing Behavior Prediction and Decision-Making Strategy for an Autonomous Vehicle. IEEE Transactions on Industrial Electronics, 2022, 69, 2927-2937.	7.9	52
18	Fabrication of a PPS Microporous Membrane for Efficient Water-in-Oil Emulsion Separation. Langmuir, 2018, 34, 10580-10590.	3.5	51

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19	Investigation of physicochemical and rheological properties of SARA components separated from bitumen. Construction and Building Materials, 2020, 235, 117437.	7.2	50
20	Adhesive-free in situ synthesis of a coral-like titaniumÂdioxide@poly(phenylene sulfide) microporous membrane for visible-light photocatalysis. Chemical Engineering Journal, 2019, 374, 1382-1393.	12.7	48
21	An Optimization-Based Path Planning Approach for Autonomous Vehicles Using the DynEFWA-Artificial Potential Field. IEEE Transactions on Intelligent Vehicles, 2022, 7, 263-272.	12.7	47
22	Ultrathin polyamide nanofiltration membranes with tunable chargeability for multivalent cation removal. Journal of Membrane Science, 2022, 642, 119971.	8.2	47
23	Superwetting membranes: from controllable constructions to efficient separations. Journal of Materials Chemistry A, 2021, 9, 1395-1417.	10.3	46
24	Economical launching and accelerating control strategy for a single-shaft parallel hybrid electric bus. Mechanical Systems and Signal Processing, 2016, 76-77, 649-664.	8.0	39
25	Multi-scale performance evaluation and correlation analysis of blended asphalt and recycled asphalt mixtures incorporating high RAP content. Journal of Cleaner Production, 2021, 317, 128278.	9.3	38
26	Performance Evaluation and Improving Mechanisms of Diatomite-Modified Asphalt Mixture. Materials, 2018, 11, 686.	2.9	33
27	A novel combinatorial optimization algorithm for energy management strategy of plug-in hybrid electric vehicle. Journal of the Franklin Institute, 2017, 354, 6588-6609.	3.4	32
28	Ultrathin fluorinated self-cleaning membranes *via* coordination-driven metal-bridging assembly for water purification. Journal of Materials Chemistry A, 2020, 8, 4505-4514.	10.3	31
29	An efficient vehicle-following predictive energy management strategy for PHEV based on improved sequential quadratic programming algorithm. Energy, 2021, 219, 119595.	8.8	31
30	Life Cycle Assessment of Biochar Modified Bioasphalt Derived from Biomass. ACS Sustainable Chemistry and Engineering, 2020, 8, 14568-14575.	6.7	30
31	Motor-Temperature-Aware Predictive Energy Management Strategy for Plug-In Hybrid Electric Vehicles Using Rolling Game Optimization. IEEE Transactions on Transportation Electrification, 2021, 7, 2209-2223.	7.8	30
32	Enhanced induction heating and self-healing performance of recycled asphalt mixtures by incorporating steel slag. Journal of Cleaner Production, 2022, 366, 132999.	9.3	30
33	Mix-charged polyamide membranes via molecular hybridization for selective ionic nanofiltration. Journal of Membrane Science, 2022, 644, 120051.	8.2	29
34	A multi-objective optimization energy management strategy for power split HEV based on velocity prediction. Energy, 2022, 238, 121714.	8.8	27
35	Highly Efficient Purification of Multicomponent Wastewater by Electrospinning Kidney-Bean-Skin-like Porous H-PPAN/rGO-*g*-PAO@Ag$^+$/Ag Composite Nanofibrous Membranes. ACS Applied Materials & Interfaces, 2019, 11, 46920-46929.	8.0	26
36	Characteristics of calcareous sand filler and its influence on physical and rheological properties of asphalt mastic. Construction and Building Materials, 2021, 301, 124112.	7.2	26

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37	Study of Toxicity Assessment of Heavy Metals from Steel Slag and Its Asphalt Mixture. Materials, 2020, 13, 2768.	2.9	25
38	Loosening ultrathin polyamide nanofilms through alkali hydrolysis for high-permselective nanofiltration. Journal of Membrane Science, 2021, 637, 119623.	8.2	25
39	Electrostatic enhanced surface segregation approach to self-cleaning and antifouling membranes for efficient molecular separation. Journal of Membrane Science, 2021, 638, 119689.	8.2	25
40	Ultrathin nanofiltration membrane assembled by polyethyleneimine-grafted graphene quantum dots. Journal of Membrane Science, 2022, 642, 119944.	8.2	25
41	Cyber Physical Energy Optimization Control Design for PHEVs Based on Enhanced Firework Algorithm. IEEE Transactions on Vehicular Technology, 2021, 70, 282-291.	6.3	24
42	Engineering multi-pathway graphene oxide membranes toward ultrafast water purification. Journal of Membrane Science, 2021, 638, 119706.	8.2	24
43	An adaptive firework algorithm optimization-based intelligent energy management strategy for plug-in hybrid electric vehicles. Energy, 2022, 239, 122120.	8.8	24
44	Amphiphilic cellulose for enhancing the antifouling and separation performances of poly (acrylonitrile-co-methyl acrylate) ultrafiltration membrane. Journal of Membrane Science, 2019, 591, 117276.	8.2	23
45	Geometric Characteristics of BOF Slag Coarse Aggregate and its Influence on Asphalt Concrete. Materials, 2019, 12, 741.	2.9	23
46	Enhancement mechanism of induction heating on blending efficiency of RAP - virgin asphalt in steel slag recycled asphalt mixtures. Construction and Building Materials, 2021, 269, 121318.	7.2	22
47	An Adaptive Stochastic Model Predictive Control Strategy for Plug-in Hybrid Electric Bus During Vehicle-Following Scenario. IEEE Access, 2020, 8, 13887-13897.	4.2	21
48	Adaptive Model Predictive Control-Based Path Following Control for Four-Wheel Independent Drive Automated Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14399-14412.	8.0	21
49	Combusting behavior and pyrolysis products evaluation of SARA components separated from bitumen. Construction and Building Materials, 2020, 244, 118401.	7.2	18
50	A Convolutional Neural Network-Based Driving Cycle Prediction Method for Plug-in Hybrid Electric Vehicles With Bus Route. IEEE Access, 2020, 8, 3255-3264.	4.2	17
51	Indentation size and loading rate sensitivies on mechanical properties and creep behavior of solid bitumen. International Journal of Coal Geology, 2019, 216, 103295.	5.0	16
52	Tuning the pore size of graphene quantum dots composite nanofiltration membranes by P-aminobenzoic acid for enhanced dye/salt separation. Separation and Purification Technology, 2021, 263, 118372.	7.9	16
53	An efficient optimal sizing strategy for a hybrid electric air-ground vehicle using adaptive spiral optimization algorithm. Journal of Power Sources, 2022, 517, 230704.	7.8	16
54	Investigation of the physic-chemical properties and toxic potential of Basic Oxygen Furnace Slag (BOF) in asphalt pavement constructed after 15Âyears. Construction and Building Materials, 2020, 238, 117630.	7.2	15

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55	Event‐triggered intelligent energy management strategy for plug‐in hybrid electric buses based on vehicle cloud optimisation. IET Intelligent Transport Systems, 2020, 14, 1153-1162.	3.0	14
56	Material characterization and performance evaluation of asphalt mixture Incorporating basic oxygen furnace slag (BOF) sludge. Construction and Building Materials, 2017, 147, 362-370.	7.2	13
57	Environmental Impact on VOCs Emission of a Recycled Asphalt Mixture with a High Percentage of RAP. Materials, 2021, 14, 947.	2.9	13
58	A Double‐Deep Q‐Network‐Based Energy Management Strategy for Hybrid Electric Vehicles under Variable Driving Cycles. Energy Technology, 2021, 9, 2000770.	3.8	12
59	Characterization of Steel Slag Filler and Its Effect on Aging Resistance of Asphalt Mastic with Various Aging Methods. Materials, 2021, 14, 869.	2.9	12
60	Revelation and characterization of selective absorption behavior of bitumen to basic oxygen furnace slag. Construction and Building Materials, 2020, 253, 119210.	7.2	11
61	Power reserve predictive control strategy for hybrid electric vehicle using recognition-based long short-term memory network. Journal of Power Sources, 2022, 520, 230865.	7.8	11
62	Perfluorooctanoyl chloride engineering toward high-flux antifouling polyamide nanofilms for desalination. Journal of Membrane Science, 2022, 644, 120166.	8.2	10
63	Charged nanochannels endow COF membrane with weakly concentration-dependent methanol permeability. Journal of Membrane Science, 2022, 645, 120186.	8.2	10
64	Compaction Procedures and Associated Environmental Impacts Analysis for Application of Steel Slag in Road Base Layer. Sustainability, 2021, 13, 4396.	3.2	9
65	The Life Cycle Energy Consumption and Emissions of Asphalt Pavement Incorporating Basic Oxygen Furnace Slag by Comparative Study. Sustainability, 2021, 13, 4540.	3.2	8
66	A multi-objective power flow optimization control strategy for a power split plug-in hybrid electric vehicle using game theory. Science China Technological Sciences, 2021, 64, 2718-2728.	4.0	8
67	Study on properties and improving mechanism of OGFC-13 asphalt mixtures modified by novel rubber pellets. Construction and Building Materials, 2022, 325, 126799.	7.2	8
68	An Adaptive Constrained Path Following Control Scheme for Autonomous Electric Vehicles. IEEE Transactions on Vehicular Technology, 2022, 71, 3569-3578.	6.3	7
69	Bonding behavior and its affecting factors between basic oxygen furnace slag and asphalt. Construction and Building Materials, 2020, 253, 119153.	7.2	6
70	Performance Evaluation of Asphalt Modified with Steel Slag Powder and Waste Tire Rubber Compounds. Sustainability, 2022, 14, 8615.	3.2	6
71	An enhanced hypotrochoid spiral optimization algorithm based intertwined optimal sizing and control strategy of a hybrid electric air-ground vehicle. Energy, 2022, 257, 124749.	8.8	4
72	City-Bus-Route Demand-based Efficient Coupling Driving Control for Parallel Plug-in Hybrid Electric Bus. Chinese Journal of Mechanical Engineering (English Edition), 2018, 31, .	3.7	3

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73	Investigation of Permanent Deformation Behavior of Steel Slag Asphalt Mixture under Indoor Simulation. Advances in Civil Engineering, 2021, 2021, 1-13.	0.7	1
74	Engineering dual-heterogeneous membrane surface with heterostructured modifier to integrate multi-defense antifouling mechanisms. Chemical Engineering Science: X, 2021, 11, 100103.	1.5	1
75	Investigation on rheological properties of bitumen based on rheological parameters of maltenes. Road Materials and Pavement Design, 0, , 1-16.	4.0	1
76	Mechanism and Investment Analysis of Recycling Gasoline Solvent with Mineral Powder for Asphalt Cleaning. Applied Sciences (Switzerland), 2020, 10, 5761.	2.5	0