Jonghoon Kim

List of Publications by Year
in descending order

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175 papers	3,921 citations	182225 30 h-index	156644 58 g-index
175 all docs	175 docs citations	175 times ranked	3830 citing authors

#	Article	IF	Citations
1	Temperatureâ€dependent synthesis of <scp> Mn ₃ O ₄ </scp> nanostructures by microwave irradiation method for highâ€performance supercapacitors. International Journal of Energy Research, 2022, 46, 1683-1692.	2.2	4
2	Novel rhombus-shaped cerium oxide sheets as a highly durable methanol oxidation electrocatalyst and high-performance supercapacitor electrode material. Ceramics International, 2022, 48, 164-172.	2.3	15
3	Effect of annealing environment on the photoelectrochemical water oxidation and electrochemical supercapacitor performance of SnO2 quantum dots. Chemosphere, 2022, 286, 131577.	4.2	18
4	In situ growth of self-composed cerium iron oxide hierarchal structures as a novel anode electrocatalyst for direct methanol fuel cells. Ceramics International, 2022, 48, 3628-3635.	2.3	8
5	High entropy spinel metal oxide (CoCrFeMnNi)3O4 nanoparticles as novel efficient electrocatalyst for methanol oxidation and oxygen evolution reactions. Journal of Environmental Chemical Engineering, 2022, 10, 106932.	3.3	51
6	Fuzzy logic supervisor-based novel energy management strategy reflecting different virtual power plants. Electric Power Systems Research, 2022, 205, 107731.	2.1	7
7	Thermal behavior investigation of the battery pack for aircraft engine initial startup to consider preheating method at subzero temperature. Journal of Thermal Analysis and Calorimetry, 2022, 147, 9107-9118.	2.0	2
8	Principle component analysis-based optimized feature extraction merged with nonlinear regression model for improved state-of-health prediction. Journal of Energy Storage, 2022, 48, 104026.	3.9	9
9	Efficient photoelectrochemical water oxidation and electrochemical supercapacitor performance of ZnAl2O4 hexagonal microstructures. Materials Letters, 2022, 313, 131812.	1.3	9
10	Methodology Study of Temperature Imbalance Detection of Parallel Battery Packs. Transactions of the Korean Society of Automotive Engineers, 2022, 30, 115-122.	0.1	0
11	Lanthanum oxide rods as a novel and efficient bifunctional hydrogen and oxygen evolution electrocatalyst for overall water splitting. Ceramics International, 2022, 48, 18645-18650.	2.3	4
12	Facile Synthesis, Characterization, and Photocatalytic Activity of Hydrothermally Grown Cu2+-Doped ZnOâ€“SnS Nanocomposites for MB Dye Degradation. Catalysts, 2022, 12, 328.	1.6	10
13	Remaining Useful Life Prediction of Lithium-ion Batteries through Empirical Model Design of Discrete Wavelet Transform Based on Particle Filter Algorithm. Transactions of the Korean Society of Automotive Engineers, 2022, 30, 199-206.	0.1	1
14	Comparative analysis of photovoltaic/rechargeable batteries sizing-dependent configurations for optimal energy management strategies in microgrids. Journal of Power Electronics, 2022, 22, 841-849.	0.9	2
15	Implementation of Adaptive Cloud Battery System Based on Extended Kalman Filter Algorithm for Real-Time Noise Parameter Update. Transactions of the Korean Society of Automotive Engineers, 2022, 30, 297-304.	0.1	0
16	Hydrothermal Synthesis of MnWO4@GO Composite as Non-Precious Electrocatalyst for Urea Oxidation. Nanomaterials, 2022, 12, 85.	1.9	5
17	Real-Time State-of-Charge Estimation Using an Embedded Board for Li-Ion Batteries. Electronics (Switzerland), 2022, 11, 2010.	1.8	7
18	Wide interlayer spacing ammonium vanadate (NH4)0.37V2O5.0.15(H2O) cathode for rechargeable aqueous zinc-ion batteries. Journal of Industrial and Engineering Chemistry, 2021, 93, 176-185.	2.9	22

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19	Green synthesized AgNPs decorated on Ketjen black for enhanced catalytic dye degradation. Research on Chemical Intermediates, 2021, 47, 637-648.	1.3	10
20	Novel hydrothermal synthesis of jasmine petal-like nanoflower WS2/ZnCo2O4 as efficient electrode material for high-performance supercapacitors. Materials Letters, 2021, 285, 129133.	1.3	13
21	Enhanced solar-light-driven photocatalytic and photoelectrochemical properties of zinc tungsten oxide nanorods anchored on bismuth tungsten oxide nanoflakes. Chemosphere, 2021, 268, 129346.	4.2	21
22	Novel hydrothermal synthesis of time-variant tungsten disulfide electrode material for high-performance supercapacitors. Journal of Energy Storage, 2021, 34, 102197.	3.9	8
23	HESS-based photovoltaic/batteries/supercapacitors: Energy management strategy and DC bus voltage stabilization. Solar Energy, 2021, 216, 551-563.	2.9	60
24	Recursive multilayer perceptron-based data-driven identification for a parameterized polarization model of rechargeable Li-ion battery. Applied Soft Computing Journal, 2021, 101, 107073.	4.1	2
25	Structural, Optical, and Magnetic Properties of Cobalt-Doped ZnAl2O4 Nanosheets Prepared by Hydrothermal Synthesis. Energies, 2021, 14, 2869.	1.6	15
26	Regional resistance-based spatial thermal model for checking non-uniformed temperature distribution and evolution of pouch type lithium-ion batteries. Applied Thermal Engineering, 2021, 192, 116936.	3.0	6
27	Lithium-Ion Battery Separator Prepared by Double-Matrix Encapsulation and Penetration. ACS Applied Energy Materials, 2021, 4, 6062-6073.	2.5	3
28	A Robust State of Charge Estimation Approach Based on Nonlinear Battery Cell Model for Lithium-Ion Batteries in Electric Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 5638-5647.	3.9	32
29	Vibration-based degradation effect in rechargeable lithium ion batteries having different cathode materials for railway vehicle application. Engineering Failure Analysis, 2021, 124, 105334.	1.8	14
30	Analysis of the cell-to-cell imbalance in battery pack based on the over-discharge prognosis and maximum available current prediction for comprehensive management strategy. , 2021, , .		1
31	Scalable constrained attributes/issues about risk, reliability and optimization in large scale battery pack. Journal of Energy Storage, 2021, 39, 102632.	3.9	3
32	Hydrothermal synthesis of Fe-doped ZnAl2O4 nanosheets: bandgap engineering and room temperature ferromagnetism. Chemical Papers, 2021, 75, 6407-6416.	1.0	6
33	Impedance-based Temperature Estimation Study Reflecting the Frequency Response Characteristics of High-capacity Lithium-ion Batteries. Transactions of the Korean Society of Automotive Engineers, 2021, 29, 741-749.	0.1	0
34	Complementary cooperative SOC/capacity estimator based on the discrete variational derivative combined with the DEKF for electric power applications. Energy, 2021, 232, 121023.	4.5	22
35	Ultra-small Cuâ€“Ni nanoalloy as a high-performance supercapacitor electrode material and highly durable methanol oxidation electrocatalyst. Journal of Industrial and Engineering Chemistry, 2021, 102, 95-102.	2.9	15
36	Decoupling the thermal and non-thermal effects of discharge C-rate on the capacity fade of lithium-ion batteries. Journal of Power Sources, 2021, 510, 230390.	4.0	11

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37	Self-doped 2D-V2O5 nanoflakes â€“ A high electrochemical performance cathode in rechargeable zinc ion batteries. Ceramics International, 2021, 47, 29832-29839.	2.3	11
38	Improved sunlight-driven photocatalytic abatement of tetracycline and photoelectrocatalytic water oxidation by tin oxide quantum dots anchored on nickel ferrite nanoplates. Journal of Electroanalytical Chemistry, 2021, 900, 115699.	1.9	8
39	A Study on the Selection of Failure Factors for Transient State Lithium-Ion Batteries based on Electrochemical Impedance Spectroscopy. Journal of the Korean Society for Precision Engineering, 2021, 38, 749-756.	0.1	0
40	Digital Implementation Method for Synchronous PWM Control of GaN Transistor at Zero-Crossing of Totem-Pole PFC in Energy Storage Applications. Electronics (Switzerland), 2021, 10, 30.	1.8	1
41	Possibility of Power Electronics-Based Control Analysis of a Self-Excited Induction Generator (SEIG) for Wind Turbine and Electrolyzer Application. Electronics (Switzerland), 2021, 10, 2743.	1.8	1
42	Mathematical analysis of battery data for development of data-driven degradation model. , 2021, , .		0
43	Bidirectional CLLC Resonant Converter Design for Photovoltaic Microinverters with Li-Ion Batteries. , 2021, , .		3
44	A novel one-pot approach of ZnWO4 nanorods decorated onto g-C3N4 nanosheets: 1D/2D heterojunction for enhanced solar-light-driven photocatalytic activity. Journal of Materials Science, 2020, 55, 1170-1183.	1.7	40
45	Facile one-pot synthesis of gold/tin oxide quantum dots for visible light catalytic degradation of methylene blue: Optimization of plasmonic effect. Journal of Alloys and Compounds, 2020, 812, 152081.	2.8	25
46	Effects of annealing on bandgap and surface plasmon resonance enhancement in Au/SnO2 quantum dots. Ceramics International, 2020, 46, 17-22.	2.3	9
47	SnO2 quantum dots decorated NiFe2O4 nanoplates: 0D/2D heterojunction for enhanced visible-light-driven photocatalysis. Materials Science in Semiconductor Processing, 2020, 107, 104834.	1.9	40
48	Internal thermal network model-based inner temperature distribution of high-power lithium-ion battery packs with different shapes for thermal management. Journal of Energy Storage, 2020, 27, 101017.	3.9	56
49	Complementary cooperation dynamic characteristics analysis and modeling based on multiple-input multiple-output methodology combined with nonlinear control strategy for a polymer electrolyte membrane fuel cell. Renewable Energy, 2020, 149, 273-286.	4.3	7
50	Remaining-useful-life prediction via multiple linear regression and recurrent neural network reflecting degradation information of 20Ah LiNixMnyCo1â^'xâ^'yO2 pouch cell. Journal of Electroanalytical Chemistry, 2020, 858, 113729.	1.9	27
51	Membranes Made from Electrospun Polyacrylonitrile Nonwoven Fibers with Uniform Diameter for Lithium-Ion Battery Separators. Fibers and Polymers, 2020, 21, 2204-2214.	1.1	3
52	Review of state-of-the-art battery state estimation technologies for battery management systems of stationary energy storage systems. Journal of Power Electronics, 2020, 20, 1526-1540.	0.9	64
53	Design and simulation studies of battery-supercapacitor hybrid energy storage system for improved performances of traction system of solar vehicle. Journal of Energy Storage, 2020, 32, 101943.	3.9	32
54	Designing High-Voltage and Large-Capacity Battery Packs for Fuel-Cell Hybrid Railroad Propulsion System. Electronics (Switzerland), 2020, 9, 1259.	1.8	3

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55	Inrush current reduction technology of DAB converter for lowâ€voltage battery systems and DC bus connections in DC microgrids. IET Power Electronics, 2020, 13, 1528-1536.	1.5	8
56	Stretchable Carbon Nanotube Dilatometer for In Situ Swelling Detection of Lithium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 3637-3644.	2.5	11
57	Analysis of High-Power Charging Limitations of a Battery in a Hybrid Railway System. Electronics (Switzerland), 2020, 9, 212.	1.8	5
58	Add-On Type Pulse Charger for Quick Charging Li-Ion Batteries. Electronics (Switzerland), 2020, 9, 227.	1.8	10
59	Inrush current estimation and hot-swapping for safe parallel battery pack. International Journal of Electronics, 2020, 107, 1609-1624.	0.9	4
60	Integrated Approach Based on Dual Extended Kalman Filter and Multivariate Autoregressive Model for Predicting Battery Capacity Using Health Indicator and SOC/SOH. Energies, 2020, 13, 2138.	1.6	38
61	Implementation of generative adversarial network-CLS combined with bidirectional long short-term memory for lithium-ion battery state prediction. Journal of Energy Storage, 2020, 31, 101489.	3.9	24
62	Enhanced visible-light-driven photoelectrochemical and photocatalytic performance of Au-SnO2 quantum dot-anchored g-C3N4 nanosheets. Separation and Purification Technology, 2020, 240, 116652.	3.9	53
63	An Analysis of Battery Degradation in the Integrated Energy Storage System with Solar Photovoltaic Generation. Electronics (Switzerland), 2020, 9, 701.	1.8	14
64	Thermal Analysis of a Parallel-Configured Battery Pack (1S18P) Using 21700 Cells for a Battery-Powered Train. Electronics (Switzerland), 2020, 9, 447.	1.8	16
65	Enhanced solar lightâ€“driven photocatalytic degradation of tetracycline and organic pollutants by novel oneâ€“dimensional ZnWO4 nanorodâ€“decorated twoâ€“dimensional Bi2WO6 nanoflakes. Journal of the Taiwan Institute of Chemical Engineers, 2020, 110, 58-70.	2.7	34
66	Two-Step HNN-Based Pattern Recognition Combining DWT-Based Multi-Resolution Analysis for Rechargeable Cells Distinction. IEEE Transactions on Power Electronics, 2020, 35, 11891-11901.	5.4	3
67	Design of State of Health Prediction Model for Retired High Power LiNiMnCoO2 Cell with Holts Exponential Smoothing Method. , 2020, , .		0
68	A Nonlinear Open Circuit Voltage Representation Enabling State of Charge Estimation at the Voltage Plateau Region of LiFePO₄ Battery. , 2020, , .		0
69	State of charge and State of health estimation method based on measurement fusion and dual extended Kalman filter for combining the inhomogeneity of cell characteristics. , 2020, , .		0
70	Analysis of the Effect of the Variable Charging Current Control Method on Cycle Life of Li-ion Batteries. Energies, 2019, 12, 3023.	1.6	35
71	Coordinated Frequency Control of a Doubly-Fed Induction Generator and Battery Using the Flexible Power Reference. , 2019, , .		0
72	High accuracy temperaure-dependent SOC estimation based on real-time parameter identification for rechargeable Li-Ion battery pack. , 2019, , .		1

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73	Urea assisted ceria nanocubes for efficient removal of malachite green organic dye from aqueous system. Scientific Reports, 2019, 9, 14477.	1.6	30
74	Incremental Capacity Curve Peak Points-Based Regression Analysis for the State-of-Health Prediction of a Retired LiNiCoAlO2 Series/Parallel Configured Battery Pack. Electronics (Switzerland), 2019, 8, 1118.	1.8	12
75	Carbon Nanotube-Based Strain Sensor for Excessive Swelling Detection of Lithium-Ion Battery. , 2019, , .		6
76	Small-signal modeling, integration, and hardware implementation for optimized DC distribution system based on hierarchical control masterâ€“slave structure. Electric Power Systems Research, 2019, 177, 105998.	2.1	4
77	A Nonlinear-Model-Based Observer for a State-of-Charge Estimation of a Lithium-Ion Battery in Electric Vehicles. Energies, 2019, 12, 3383.	1.6	12
78	Thermal behavior of full-scale battery pack based on comprehensive heat-generation model. Journal of Power Sources, 2019, 433, 226715.	4.0	14
79	Visible-light-driven photocatalytic activity of tiny ZnO nanosheets anchored on NaBiS2 nanoribbons via hydrothermal synthesis. Journal of Materials Science: Materials in Electronics, 2019, 30, 10900-10911.	1.1	27
80	Enhanced visible-light-active photocatalytic performance using CdS nanorods decorated with colloidal SnO2 quantum dots: Optimization of coreâ€“shell nanostructure. Journal of Industrial and Engineering Chemistry, 2019, 76, 476-487.	2.9	45
81	Impact analysis of deterioration and SOH estimation based on multiple regression analysis. , 2019, , .		2
82	Sensor Fusion-based Cell-to-Cell Inhomogeneity Reflection for Accurate SOC Estimation of The Serial/Parallel Battery Pack. , 2019, , .		1
83	Research of Adaptive Extended Kalman Filter-Based SOC Estimator for Frequency Regulation ESS. Applied Sciences (Switzerland), 2019, 9, 4274.	1.3	6
84	Power Capability Analysis of Lithium Battery and Supercapacitor by Pulse Duration. Electronics (Switzerland), 2019, 8, 1395.	1.8	17
85	Fabrication of Stretchable Transparent Electrode by Utilizing Self-Induced Vacuum Force. Applied Sciences (Switzerland), 2019, 9, 4986.	1.3	0
86	State of Charge and Equivalent Internal Resistance Estimation for a Multi-cell Application based on Cell-Difference-Model. , 2019, , .		3
87	Polynomial Regression method-based Remaining Useful Life Prediction and Comparative Analysis of Two Lithium Nickel Cobalt Manganese Oxide Batteries. , 2019, , .		1
88	Novel in-situ synthesis of Au/SnO2 quantum dots for enhanced visible-light-driven photocatalytic applications. Ceramics International, 2019, 45, 5743-5750.	2.3	57
89	Comparison of internal parameters varied by environmental tests between high-power series/parallel battery packs with different shapes. Journal of Industrial and Engineering Chemistry, 2019, 71, 260-269.	2.9	12
90	Control of Kalman Filter Based Z-source Inverter in Photovoltaic applications. , 2019, , .		0

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91	Comparative analysis of NCM LIB equivalent parameter according to AC-DC impedance estimation method. , 2019, , .		0
92	Nonlinear Observer and Simplified Equivalent Circuit Model-based EKF-SOC Estimator of a Rechargeable LiFePo₄ cell. , 2019, , .		1
93	Comparative Analysis of Cell-to-Cell Voltage and Internal Parameters Variation for the series/parallel battery pack. , 2019, , .		1
94	Covariance controlled state-of-charge estimator of LiFePO4 cells using a simplified hysteresis model. Electrochimica Acta, 2018, 265, 629-637.	2.6	6
95	Bandgap tuning and XPS study of SnO2 quantum dots. Materials Letters, 2018, 221, 211-215.	1.3	98
96	Inrush Current Estimation for Hot Swap of the Parallel Connected Large Capacity Battery Pack. , 2018, , .		7
97	Optimal Cell Screening Method for Minimizing the Imbalance Based on K-Means Clustering Algorithm. , 2018, , .		1
98	Adaptive SOC Estimation Method Through Compensating Initial Value Based on Extended Kalman Filter. , 2018, , .		1
99	Equivalent Circuit Model Considering Self-discharge for SOC Estimation of Vanadium Redox Flow Battery. , 2018, , .		14
100	A study on application of the Lithium-ion battery for coping with extended station blackout. , 2018, , .		0
101	State-of-Charge Estimation of the Lithium-Ion Battery Using Neural Network Based on an Improved Thevenin Circuit Model. , 2018, , .		4
102	Performance and Life Degradation Characteristics Analysis of NCM LIB for BESS. Electronics (Switzerland), 2018, 7, 406.	1.8	27
103	Optimized Modeling and Control Strategy of the Single-Phase Photovoltaic Grid-Connected Cascaded H-bridge Multilevel Inverter. Electronics (Switzerland), 2018, 7, 207.	1.8	9
104	Enhanced visible-light photocatalytic performance of Fe3O4 nanopyramids for water splitting and dye degradation. Journal of Solid State Electrochemistry, 2018, 22, 3535-3546.	1.2	24
105	Ultra-sonication-assisted silver nanoparticles using Panax ginseng root extract and their anti-cancer and antiviral activities. Journal of Photochemistry and Photobiology B: Biology, 2018, 188, 6-11.	1.7	108
106	Implementation methodology of powertrain for series-hybrid military vehicles applications equipped with hybrid energy storage. Energy, 2017, 120, 229-240.	4.5	19
107	Active Power and Flux Control of a Self-Excited Induction Generator for a Variable-Speed Wind Turbine Generation. , 2017, , .		2
108	Steadyâ€state protein focusing in carrier ampholyteâ€based isoelectric focusing: Part IIâ€”validation and case studies. Electrophoresis, 2017, 38, 667-676.	1.3	4

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109	Design and control of an interleaved bi-directional power converter for railway applications. , 2017, , .		0
110	Multi-Variate Discrete Wavelet Technique for Advanced State-of-Charge Estimation of a Lithium-Ion Cell. Energy Procedia, 2017, 105, 4525-4530.	1.8	0
111	Steadyâ€state protein focusing in carrier ampholyte based isoelectric focusing: Part Iâ€”Analytical solution. Electrophoresis, 2017, 38, 659-666.	1.3	5
112	Control and analysis for a self-excited induction generator for wind turbine and electrolyzer applications. , 2017, , .		3
113	Modeling and simulation on extraction of rare earth by computational fluid-particle dynamics in a batch reactor. Journal of Mechanical Science and Technology, 2017, 31, 5887-5895.	0.7	2
114	Experiments and characteristic analysis of a large-capacity prismatic cell for electric-powered application. , 2017, , .		1
115	An Improvement of a Fuzzy Logic-Controlled Maximum Power Point Tracking Algorithm for Photovoltic Applications. Applied Sciences (Switzerland), 2017, 7, 326.	1.3	27
116	Elimination of Chattering by Control Strategy Based on the Multiphase Sliding Model Control for Efficient Power Conversion in a DC-DC Circuit. Energies, 2017, 10, 1389.	1.6	0
117	A Review of Lithium-Air Battery Modeling Studies. Energies, 2017, 10, 1748.	1.6	17
118	Environmental tests and evaluations of variable 18650 cylindrical li-ion cells for space cell's qualification establishment. , 2017, , .		0
119	Differentiation of ECM and noise model/data rejection for high-capacity and high-power cell according to the electrical characteristics. , 2017, , .		0
120	Implementation of discharging/charging current sensorless state-of-charge estimator reflecting cell-to-cell variations in lithium-ion series battery packs. International Journal of Automotive Technology, 2016, 17, 909-916.	0.7	6
121	Multi-phase sliding mode control for chattering suppression in a DC-DC converter. , 2016, , .		0
122	Difference in EDCTV between MLD- and SCSLD-based noise elimination of the series/parallel-cell configured battery pack. , 2016, , .		0
123	Efficient FCTV provision considering DWT and DWPT-based noise suppression for overcoming the noise-induced voltage loss in PEM fuel cell. , 2016, , .		0
124	Construction of frequency regulation RESS based on advanced cell grouping combined with the DWT. , 2016, , .		0
125	Optimized implementation of a DC-DC power converter modeling and control strategy for efficient operation of a photovoltaic application. , 2016, , .		0
126	Improved maximum power point tracking algorithm using a Fuzzy Logic Controller for a Photovoltaic System. , 2016, , .		0

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127	Influence of different open circuit voltage tests on state of charge online estimation for lithium-ion batteries. Applied Energy, 2016, 183, 513-525.	5.1	342
128	Comparative analysis of the SOH estimation based on various resistance parameters for LiCoO2 cells. , 2016, , .		3
129	Noise suppression of the DWT-based MRA on mother wavelet and decomposition level optimization for a robust adaptive SOC estimator in multi-cell battery string. , 2016, , .		1
130	Effects of Operating Temperature on the Electrical Performance of a Li-air Battery operated with Ionic Liquid Electrolyte. Electrochimica Acta, 2016, 194, 317-329.	2.6	28
131	Discrete Wavelet Transform-Based Feature Extraction of Experimental Voltage Signal for Li-Ion Cell Consistency. IEEE Transactions on Vehicular Technology, 2016, 65, 1150-1161.	3.9	45
132	Practical Methodology of the Integrated Design and Power Control Unit for SHEV with Multiple Power Sources. Journal of Electrical Engineering and Technology, 2016, 11, 353-360.	1.2	0
133	Comparative Analysis of SOC Estimation using EECM and NST in Rechargeable LiCoO₂/LiFePO₄/LiNiMnCoO₂Cells. Journal of Electrical Engineering and Technology, 2016, 11, 1664-1673.	1.2	0
134	Evaluation of noise reduction in experimental battery pack voltage using discrete wavelet transform and wavelet packet transform. , 2015, , .		1
135	Comparative analysis of the DWT-based denoising technique selection in noise-riding DCV of the Li-Ion battery pack. , 2015, , .		1
136	A State-of-Charge and Capacity Estimation Algorithm for Lithium-ion Battery Pack Utilizing Filtered Terminal Voltage. World Electric Vehicle Journal, 2015, 7, 71-75.	1.6	3
137	Application of wavelet transform-based discharging/charging voltage signal denoising for advanced data-driven SOC estimator. , 2015, , .		8
138	Combination between adaptive SMO and DWT-based an adjusted EDCV signal for robust SOC estimation in battery pack applications. , 2015, , .		0
139	Maximum pulse current estimation for high accuracy power capability prediction of a Li-Ion battery. Microelectronics Reliability, 2015, 55, 572-581.	0.9	14
140	Electrochemical Model for Ionic Liquid Electrolytes in Lithium Batteries. Electrochimica Acta, 2015, 176, 301-310.	2.6	21
141	Discrete wavelet transform-based denoising technique for advanced state-of-charge estimator of a lithium-ion battery in electric vehicles. Energy, 2015, 83, 462-473.	4.5	52
142	Current sensor-less state-of-charge estimation algorithm for lithium-ion batteries utilizing filtered terminal voltage. Journal of Power Sources, 2015, 273, 255-263.	4.0	52
143	Investigation of a data-driven SOC estimator based on the merged SMO and degradation mitigation for series/parallel-cell configured battery pack. , 2014, , .		1
144	Implementation of sliding-mode observer combined with aging compensation for improved SOC estimation. , 2014, , .		0

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145	Cell seletion through two-level basis pattern recognition with low/high frequency components decomposed by DWT-based MRA. , 2014, , .		1
146	Fault diagnosis in large format LiFePO<inf>4</inf> ESS application through DWT-based MRA. , 2014, , .		0
147	Modeling of volume change phenomena in a Liâ€“air battery. Journal of Power Sources, 2014, 258, 340-350.	4.0	44
148	Fuzzy logic-controlled online state-of-health (SOH) prediction in large format LiMn₂O₄ cell for energy storage system (ESS) applications. , 2014, , .		1
149	An innovative approach for characteristic analysis and state-of-health diagnosis for a Li-ion cell based on the discrete wavelet transform. Journal of Power Sources, 2014, 260, 115-130.	4.0	33
150	Implementation of discrete wavelet transform-based discrimination and state-of-health diagnosis for a polymer electrolyte membrane fuel cell. International Journal of Hydrogen Energy, 2014, 39, 10664-10682.	3.8	25
151	A fast state-of-charge estimation algorithm for LiFePO<inf>4</inf> batteries utilizing extended Kalman filter. , 2013, , .		8
152	Screening process-based modeling of the multi-cell battery string in series and parallel connections for high accuracy state-of-charge estimation. Energy, 2013, 57, 581-599.	4.5	96
153	Impedance-based diagnosis of polymer electrolyte membrane fuel cell failures associated with a low frequency ripple current. Renewable Energy, 2013, 51, 302-309.	4.3	25
154	Equivalent Circuit Modeling of PEM Fuel Cell Degradation Combined With a LFRC. IEEE Transactions on Industrial Electronics, 2013, 60, 5086-5094.	5.2	45
155	Pattern Recognition for Temperature-Dependent State-of-Charge/Capacity Estimation of a Li-ion Cell. IEEE Transactions on Energy Conversion, 2013, 28, 1-11.	3.7	36
156	DWT-based SOH prediction using the output voltage deviation among the cells in the LiFePO<inf>4</inf> battery pack for ESS applications. , 2013, , .		0
157	Discrimination and state-of-health diagnosis based on the discrete wavelet transform for a polymer electrolyte membrane fuel cell. , 2013, , .		1
158	Implementation of EKF combined with discrete wavelet transform-based MRA for improved SOC estimation for a Li-Ion cell. , 2013, , .		3
159	OCV hysteresis effect-based SOC estimation in extended Kalman filter algorithm for a LiFePO<inf>4</inf>/C cell. , 2012, , .		18
160	Discrimination and screening method for a Li-Ion cell based on discrete wavelet transform (DWT). , 2012, , .		3
161	Stable Configuration of a Li-Ion Series Battery Pack Based on a Screening Process for Improved Voltage/SOC Balancing. IEEE Transactions on Power Electronics, 2012, 27, 411-424.	5.4	232
162	Complementary Cooperation Algorithm Based on DEKF Combined With Pattern Recognition for SOC/Capacity Estimation and SOH Prediction. IEEE Transactions on Power Electronics, 2012, 27, 436-451.	5.4	164

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163	State-of-health diagnosis based on hamming neural network using output voltage pattern recognition for a PEM fuel cell. International Journal of Hydrogen Energy, 2012, 37, 4280-4289.	3.8	62
164	Discharging/Charging Voltage-Temperature Pattern Recognition for Improved SOC/Capacity Estimation and SOH Prediction at Various Temperatures. Journal of Power Electronics, 2012, 12, 1-9.	0.9	7
165	High accuracy state-of-charge estimation of Li-Ion battery pack based on screening process. , 2011, , .		8
166	State-of-Charge Estimation and State-of-Health Prediction of a Li-Ion Degraded Battery Based on an EKF Combined With a Per-Unit System. IEEE Transactions on Vehicular Technology, 2011, 60, 4249-4260.	3.9	229
167	Discrimination of Li-ion batteries based on Hamming network using dischargingâ€“charging voltage pattern recognition for improved state-of-charge estimation. Journal of Power Sources, 2011, 196, 2227-2240.	4.0	59
168	Characteristic analysis and modeling on PEMFC degradation associated with low frequency ripple current effects. , 2011, , .		3
169	SOC/capacity estimation of a Li-Ion battery based on pattern recognition at different temperature. , 2011, , .		3
170	An Experimental Analysis of the Ripple Current Applied Variable Frequency Characteristic in a Polymer Electrolyte Membrane Fuel Cell. Journal of Power Electronics, 2011, 11, 82-89.	0.9	18
171	Screening process of Li-Ion series battery pack for improved voltage/SOC balancing. , 2010, , .		9
172	The State of Charge estimation employing empirical parameters measurements for various temperatures. , 2009, , .		6
173	The determination of state of charge based on extended kalman filter using per-unit system and time constant principle. , 2009, , .		8
174	Discrimination of battery characteristics using discharging/charging voltage pattern recognition. , 2009, , .		3
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