

Jay Lee

List of Publications by Year in descending order

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145
papers

17,523
citations

36303

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h-index

15732

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145
all docs

145
docs citations

145
times ranked

11907
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Methodology for Lens Matching in Compact Lens Module Assembly. IEEE Transactions on Automation Science and Engineering, 2023, 20, 741-750.	5.2	3
2	Intelligent Robust Cross-Domain Fault Diagnostic Method for Rotating Machines Using Noisy Condition Labels. Mathematics, 2022, 10, 455.	2.2	10
3	A Novel Transfer Learning Approach in Remaining Useful Life Prediction for Incomplete Dataset. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	46
4	Sequential optimization of the injection molding gate locations using parallel efficient global optimization. International Journal of Advanced Manufacturing Technology, 2022, 120, 3805-3819.	3.0	1
5	Introduction to resilient manufacturing systems. Manufacturing Letters, 2022, 32, 24-27.	2.2	9
6	Knowledge transfer using Bayesian learning for predicting the process-property relationship of Inconel alloys obtained by laser powder bed fusion. Virtual and Physical Prototyping, 2022, 17, 787-805.	10.4	10
7	Evaluating Feature Selection and Anomaly Detection Methods of Hard Drive Failure Prediction. IEEE Transactions on Reliability, 2021, 70, 749-760.	4.6	19
8	Cross-domain gearbox diagnostics under variable working conditions with deep convolutional transfer learning. JVC/Journal of Vibration and Control, 2021, 27, 854-864.	2.6	13
9	Adaptive virtual metrology method based on Just-in-time reference and particle filter for semiconductor manufacturing. Measurement: Journal of the International Measurement Confederation, 2021, 168, 108338.	5.0	11
10	A Markov model for short term wind speed prediction by integrating the wind acceleration information. Renewable Energy, 2021, 164, 242-253.	8.9	30
11	Field-synchronized Digital Twin framework for production scheduling with uncertainty. Journal of Intelligent Manufacturing, 2021, 32, 1207-1228.	7.3	75
12	Methodology for Important Sensor Screening for Fault Detection and Classification in Semiconductor Manufacturing. IEEE Transactions on Semiconductor Manufacturing, 2021, 34, 65-73.	1.7	14
13	Combining Feature Extraction-Based and Full Trace Analysis Capabilities in Fault Detection: Methods and Comparative Analysis. , 2021, , .		1
14	Reference-based Virtual Metrology method with uncertainty evaluation for Material Removal Rate prediction based on Gaussian Process Regression. International Journal of Advanced Manufacturing Technology, 2021, 116, 1199-1211.	3.0	4
15	A unified Bayesian filtering framework for multi-horizon wind speed prediction with improved accuracy. Renewable Energy, 2021, 178, 709-719.	8.9	10
16	A unified digital twin framework for shop floor design in industry 4.0 manufacturing systems. Manufacturing Letters, 2021, 27, 87-91.	2.2	28
17	Intelligent Diagnostics for Ball Screw Fault Through Indirect Sensing Using Deep Domain Adaptation. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	27
18	A novel scalable method for machine degradation assessment using deep convolutional neural network. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107106.	5.0	22

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19	Gaussian Process Regression for numerical wind speed prediction enhancement. <i>Renewable Energy</i> , 2020, 146, 2112-2123.	8.9	112
20	Deep learning-based cross-domain adaptation for gearbox fault diagnosis under variable speed conditions. <i>Measurement Science and Technology</i> , 2020, 31, 055601.	2.6	53
21	Deep Learning-Based Intelligent Defect Detection of Cutting Wheels with Industrial Images in Manufacturing. <i>Procedia Manufacturing</i> , 2020, 48, 902-907.	1.9	8
22	Deep learning-based cross-sensor domain adaptation for fault diagnosis of electro-mechanical actuators. <i>International Journal of Dynamics and Control</i> , 2020, 8, 1054-1062.	2.5	21
23	Intracranial Pressure Monitoring Signals After Traumatic Brain Injury: A Narrative Overview and Conceptual Data Science Framework. <i>Frontiers in Neurology</i> , 2020, 11, 959.	2.4	16
24	Industrial Artificial Intelligence in Industry 4.0 - Systematic Review, Challenges and Outlook. <i>IEEE Access</i> , 2020, 8, 220121-220139.	4.2	208
25	A systematic review of machine learning algorithms for prognostics and health management of rolling element bearings: fundamentals, concepts and applications. <i>Measurement Science and Technology</i> , 2020, 32, 012001.	2.6	48
26	A unified data security framework for federated prognostics and health management in smart manufacturing. <i>Manufacturing Letters</i> , 2020, 24, 136-139.	2.2	14
27	Enhancing Intelligent Cross-Domain Fault Diagnosis Performance on Rotating Machines with Noisy Health Labels. <i>Procedia Manufacturing</i> , 2020, 48, 940-946.	1.9	11
28	Fault Diagnosis of Ball Screw in Industrial Robots Using Non-Stationary Motor Current Signals. <i>Procedia Manufacturing</i> , 2020, 48, 1102-1108.	1.9	15
29	A similarity based methodology for machine prognostics by using kernel two sample test. <i>ISA Transactions</i> , 2020, 103, 112-121.	5.7	35
30	Deep Learning-Based Intelligent Process Monitoring of Directed Energy Deposition in Additive Manufacturing with Thermal Images. <i>Procedia Manufacturing</i> , 2020, 48, 643-649.	1.9	44
31	Industrial AI. , 2020, , .		23
32	Quality analysis in metal additive manufacturing with deep learning. <i>Journal of Intelligent Manufacturing</i> , 2020, 31, 2003-2017.	7.3	81
33	A virtual metrology method with prediction uncertainty based on Gaussian process for chemical mechanical planarization. <i>Computers in Industry</i> , 2020, 119, 103228.	9.9	29
34	Multisensor data fusion for gearbox fault diagnosis using 2-D convolutional neural network and motor current signature analysis. <i>Mechanical Systems and Signal Processing</i> , 2020, 144, 106861.	8.0	173
35	Integration of digital twin and deep learning in cyber-physical systems: towards smart manufacturing. <i>IET Collaborative Intelligent Manufacturing</i> , 2020, 2, 34-36.	3.3	122
36	Intelligent ball screw fault diagnosis using a deep domain adaptation methodology. <i>Mechanism and Machine Theory</i> , 2020, 151, 103932.	4.5	60

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37	Deep Learning-Based Domain Adaptation Method for Fault Diagnosis in Semiconductor Manufacturing. IEEE Transactions on Semiconductor Manufacturing, 2020, 33, 445-453.	1.7	47
38	Intelligent Maintenance Systems and Predictive Manufacturing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	2.2	44
39	Convolutional Neural Network Based Rolling-Element Bearing Fault Diagnosis for Naturally Occurring and Progressing Defects Using Time-Frequency Domain Features. , 2019, , .		35
40	A Novel Method for Deposit Accumulation Assessment in Dry Etching Chamber. IEEE Transactions on Semiconductor Manufacturing, 2019, 32, 183-189.	1.7	8
41	An intelligent system for offshore wind farm maintenance scheduling optimization considering turbine production loss. Journal of Intelligent and Fuzzy Systems, 2019, 37, 6911-6923.	1.4	7
42	An Online Virtual Metrology Model With Sample Selection for the Tracking of Dynamic Manufacturing Processes With Slow Drift. IEEE Transactions on Semiconductor Manufacturing, 2019, 32, 574-582.	1.7	19
43	Detection and diagnosis of bottle capping failures based on motor current signature analysis. Procedia Manufacturing, 2019, 34, 840-846.	1.9	11
44	A blockchain enabled Cyber-Physical System architecture for Industry 4.0 manufacturing systems. Manufacturing Letters, 2019, 20, 34-39.	2.2	184
45	A Methodology for the Early Diagnosis of Vehicle Torque Converter Clutch Degradation. , 2019, , .		0
46	A combined filtering strategy for short term and long term wind speed prediction with improved accuracy. Renewable Energy, 2019, 136, 1082-1090.	8.9	35
47	Prognosability study of ball screw degradation using systematic methodology. Mechanical Systems and Signal Processing, 2018, 109, 45-57.	8.0	69
48	Assessment of Data Suitability for Machine Prognosis Using Maximum Mean Discrepancy. IEEE Transactions on Industrial Electronics, 2018, 65, 5872-5881.	7.9	76
49	Fault prediction of power electronics modules and systems under complex working conditions. Computers in Industry, 2018, 97, 1-9.	9.9	23
50	An auto-associative residual based approach for railway point system fault detection and diagnosis. Measurement: Journal of the International Measurement Confederation, 2018, 119, 246-258.	5.0	25
51	Adaptive virtual metrology for semiconductor chemical mechanical planarization process using GMDH-type polynomial neural networks. Journal of Process Control, 2018, 62, 44-54.	3.3	66
52	Instantaneous speed jitter detection via encoder signal and its application for the diagnosis of planetary gearbox. Mechanical Systems and Signal Processing, 2018, 98, 16-31.	8.0	83
53	A deviation based assessment methodology for multiple machine health patterns classification and fault detection. Mechanical Systems and Signal Processing, 2018, 99, 244-261.	8.0	37
54	Sparse filtering with the generalized l_p / l_q norm and its applications to the condition monitoring of rotating machinery. Mechanical Systems and Signal Processing, 2018, 102, 198-213.	8.0	90

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55	Industrial AI Enabled Prognostics for High-speed Railway Systems. , 2018, , .		14
56	Industrial Artificial Intelligence for industry 4.0-based manufacturing systems. Manufacturing Letters, 2018, 18, 20-23.	2.2	454
57	Motor current signature analysis for gearbox condition monitoring under transient speeds using wavelet analysis and dual-level time synchronous averaging. Mechanical Systems and Signal Processing, 2017, 94, 73-84.	8.0	51
58	Predictive Big Data Analytics and Cyber Physical Systems for TES Systems. Decision Engineering, 2017, , 97-112.	2.0	9
59	Introduction to Data-Driven Methodologies for Prognostics and Health Management. , 2017, , 9-32.		31
60	Cyber physical systems for predictive production systems. Production Engineering, 2017, 11, 155-165.	2.3	70
61	Investigation on the kurtosis filter and the derivation of convolutional sparse filter for impulsive signature enhancement. Journal of Sound and Vibration, 2017, 386, 433-448.	3.9	54
62	A geometrical investigation on the generalized l_p/l_q norm for blind deconvolution. Signal Processing, 2017, 134, 63-69.	3.7	50
63	CPS-enabled worry-free industrial applications. , 2017, , .		11
64	Smart Agents in Industrial Cyber-Physical Systems. Proceedings of the IEEE, 2016, 104, 1086-1101.	21.3	327
65	Introduction to cyber manufacturing. Manufacturing Letters, 2016, 8, 11-15.	2.2	139
66	Wind turbine performance degradation assessment based on a novel similarity metric for machine performance curves. Renewable Energy, 2016, 99, 1191-1201.	8.9	99
67	A Stochastic Asset Life Prediction Method for Large Fleet Datasets in Big Data Environment. , 2015, , .		3
68	A Cyber Physical Interface for Automation Systems-Methodology and Examples. Machines, 2015, 3, 93-106.	2.2	45
69	Multi-phase preventive maintenance policy for leased equipment. International Journal of Production Research, 2015, 53, 4528-4537.	7.5	32
70	Agents enabling cyber-physical production systems. Automatisierungstechnik, 2015, 63, 777-789.	0.8	64
71	A comprehensive framework of factory-to-factory dynamic fleet-level prognostics and operation management for geographically distributed assets. , 2015, , .		19
72	A Unified Framework and Platform for Designing of Cloud-Based Machine Health Monitoring and Manufacturing Systems. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	2.2	38

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73	Industrial Big Data Analytics and Cyber-physical Systems for Future Maintenance & Service Innovation. <i>Procedia CIRP</i> , 2015, 38, 3-7.	1.9	296
74	Preventive maintenance modeling for multi-component systems with considering stochastic failures and disassembly sequence. <i>Reliability Engineering and System Safety</i> , 2015, 142, 231-237.	8.9	53
75	Smart Factory Systems. <i>Informatik-Spektrum</i> , 2015, 38, 230-235.	1.3	133
76	Motor current signature analysis for gearbox fault diagnosis in transient speed regimes. , 2015, , .		7
77	Cyber-physical Systems Architecture for Self-Aware Machines in Industry 4.0 Environment. <i>IFAC-PapersOnLine</i> , 2015, 48, 1622-1627.	0.9	227
78	A Cyber-Physical Systems architecture for Industry 4.0-based manufacturing systems. <i>Manufacturing Letters</i> , 2015, 3, 18-23.	2.2	3,341
79	Cyber-Physical Systems in Future Maintenance. <i>Lecture Notes in Mechanical Engineering</i> , 2015, , 299-305.	0.4	17
80	Prognostics and health management design for rotary machinery systems—Reviews, methodology and applications. <i>Mechanical Systems and Signal Processing</i> , 2014, 42, 314-334.	8.0	1,138
81	Review and recent advances in battery health monitoring and prognostics technologies for electric vehicle (EV) safety and mobility. <i>Journal of Power Sources</i> , 2014, 256, 110-124.	7.8	496
82	Dominant Innovation Design for Smart Products-Service Systems (PSS): Strategies and Case Studies. , 2014, , .		6
83	Service Innovation and Smart Analytics for Industry 4.0 and Big Data Environment. <i>Procedia CIRP</i> , 2014, 16, 3-8.	1.9	1,301
84	A comparative study on vibration-based condition monitoring algorithms for wind turbine drive trains. <i>Wind Energy</i> , 2014, 17, 695-714.	4.2	51
85	New Thinking Paradigm for Maintenance Innovation Design. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 7104-7109.	0.4	8
86	Data quality evaluation and improvement for prognostic modeling using visual assessment based data partitioning method. <i>Computers in Industry</i> , 2013, 64, 214-225.	9.9	28
87	Recent advances and trends in predictive manufacturing systems in big data environment. <i>Manufacturing Letters</i> , 2013, 1, 38-41.	2.2	766
88	Discriminant diffusion maps analysis: A robust manifold learner for dimensionality reduction and its applications in machine condition monitoring and fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2013, 34, 277-297.	8.0	52
89	A modified support vector data description based novelty detection approach for machinery components. <i>Applied Soft Computing Journal</i> , 2013, 13, 1193-1205.	7.2	60
90	Condition-based maintenance for intelligent monitored series system with independent machine failure modes. <i>International Journal of Production Research</i> , 2013, 51, 4585-4596.	7.5	53

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91	Ensemble Empirical Mode Decomposition-Based Teager Energy Spectrum for Bearing Fault Diagnosis. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2013, 135, .	1.6	47
92	Predictive Manufacturing System - Trends of Next-Generation Production Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 150-156.	0.4	92
93	Prognostics and Maintenance for Mechanical Systems in Harsh Environment. <i>Advances in Mechanical Engineering</i> , 2013, 5, 121340.	1.6	0
94	Performance Assessment for a Fleet of Machines Using a Combined Method of Ant-Based Clustering and CMAC. <i>Advances in Mechanical Engineering</i> , 2013, 5, 603071.	1.6	4
95	Dynamic maintenance decision-making for series-parallel manufacturing system based on MAM-MTW methodology. <i>European Journal of Operational Research</i> , 2012, 221, 231-240.	5.7	76
96	Bayesian Belief Network-based approach for diagnostics and prognostics of semiconductor manufacturing systems. <i>Robotics and Computer-Integrated Manufacturing</i> , 2012, 28, 66-74.	9.9	78
97	Wind turbine performance assessment using multi-regime modeling approach. <i>Renewable Energy</i> , 2012, 45, 86-95.	8.9	102
98	Novel method for rolling element bearing health assessment-A tachometer-less synchronously averaged envelope feature extraction technique. <i>Mechanical Systems and Signal Processing</i> , 2012, 29, 362-376.	8.0	52
99	Innovative Product Advanced Service Systems (I-PASS): methodology, tools, and applications for dominant service design. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 52, 1161-1173.	3.0	38
100	Optimal CBPM policy considering maintenance effects and environmental condition. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 56, 1181-1193.	3.0	23
101	A hybrid feature selection scheme for unsupervised learning and its application in bearing fault diagnosis. <i>Expert Systems With Applications</i> , 2011, 38, 11311-11320.	7.6	62
102	A review on prognostics and health monitoring of Li-ion battery. <i>Journal of Power Sources</i> , 2011, 196, 6007-6014.	7.8	600
103	A comparative study of maintenance data classification based on neural networks, logistic regression and support vector machines. <i>Journal of Quality in Maintenance Engineering</i> , 2010, 16, 303-318.	1.7	15
104	Design of Self-Maintenance and Engineering Immune Systems for Smarter Machines and Manufacturing Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 1-11.	0.4	4
105	Design of a reconfigurable prognostics platform for machine tools. <i>Expert Systems With Applications</i> , 2010, 37, 240-252.	7.6	29
106	Opportunistic preventive maintenance optimization for multi-unit series systems with combing multi-preventive maintenance techniques. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2010, 15, 513-518.	0.9	9
107	Production line simulation using STPN for maintenance scheduling. <i>Journal of Intelligent Manufacturing</i> , 2010, 21, 213-221.	7.3	12
108	An online adaptive condition-based maintenance method for mechanical systems. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 2985-2995.	8.0	39

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109	EFFICIENT MATERIAL ALLOCATIONS IN HIGH-MIX LOW-VOLUME MANUFACTURING. Journal of Advanced Manufacturing Systems, 2010, 09, 101-116.	1.0	4
110	Integrated E-maintenance and Intelligent Maintenance Systems. , 2009, , 499-544.		19
111	Outlier mining based abnormal machine detection in intelligent maintenance. Journal of Shanghai Jiaotong University (Science), 2009, 14, 695-700.	0.9	0
112	Opportunistic preventive maintenance scheduling for a multi-unit series system based on dynamic programming. International Journal of Production Economics, 2009, 118, 361-366.	8.9	100
113	A novel method for machine performance degradation assessment based on fixed cycle features test. Journal of Sound and Vibration, 2009, 326, 894-908.	3.9	72
114	Empirical analysis of support vector machine ensemble classifiers. Expert Systems With Applications, 2009, 36, 6466-6476.	7.6	123
115	A systematic approach for predictive maintenance service design: methodology and applications. International Journal of Internet Manufacturing and Services, 2009, 2, 76.	0.1	13
116	Probe on network-based collaborative maintenance mode for after-sales equipment. Yugoslav Journal of Operations Research, 2009, 19, 299-313.	0.8	2
117	Web-enabled platform for distributed and dynamic decision-making systems. International Journal of Advanced Manufacturing Technology, 2008, 38, 1260-1270.	3.0	10
118	A similarity-based prognostics approach for Remaining Useful Life estimation of engineered systems. , 2008, , .		275
119	Optimized maintenance design for manufacturing performance improvement using simulation. , 2008, , .		10
120	New Technologies for Maintenance. , 2008, , 49-78.		16
121	Maintenance Priority Assignment Utilizing On-line Production Information. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2007, 129, 435-446.	2.2	33
122	Orthonormal Basis Function Based Transient Modeling for Boring Tool Degradation Monitoring. Proceedings of the American Control Conference, 2007, , .	0.0	1
123	A Hybrid Method for On-line Performance Assessment and Life Prediction in Drilling Operations. , 2007, , .		25
124	Residual life predictions for ball bearings based on self-organizing map and back propagation neural network methods. Mechanical Systems and Signal Processing, 2007, 21, 193-207.	8.0	436
125	Similarity based method for manufacturing process performance prediction and diagnosis. Computers in Industry, 2007, 58, 558-566.	9.9	76
126	Reliability-centered predictive maintenance scheduling for a continuously monitored system subject to degradation. Reliability Engineering and System Safety, 2007, 92, 530-534.	8.9	222

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127	A dynamic opportunistic maintenance policy for continuously monitored systems. Journal of Quality in Maintenance Engineering, 2006, 12, 294-305.	1.7	23
128	Intelligent prognostics tools and e-maintenance. Computers in Industry, 2006, 57, 476-489.	9.9	475
129	Wavelet filter-based weak signature detection method and its application on rolling element bearing prognostics. Journal of Sound and Vibration, 2006, 289, 1066-1090.	3.9	1,059
130	Feature signature prediction of a boring process using neural network modeling with confidence bounds. International Journal of Advanced Manufacturing Technology, 2006, 30, 614-621.	3.0	32
131	Remote machine maintenance system through Internet and mobile communication. International Journal of Advanced Manufacturing Technology, 2006, 31, 783-789.	3.0	27
132	A real-time intelligent multiple fault diagnostic system. International Journal of Advanced Manufacturing Technology, 2006, 29, 590-597.	3.0	25
133	A real-time intelligent multiple fault diagnostic system. International Journal of Advanced Manufacturing Technology, 2006, 29, 590-597.	3.0	14
134	Internet Server Controller Based Intelligent Maintenance System for Products. , 2006, , 785-794.		2
135	INTRODUCTION OF WATCHDOG PROGNOSTICS AGENT AND ITS APPLICATION TO ELEVATOR HOISTWAY PERFORMANCE ASSESSMENT. Journal of the Chinese Institute of Industrial Engineers, 2005, 22, 56-63.	0.5	7
136	Degradation Assessment and Fault Modes Classification Using Logistic Regression. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2005, 127, 912-914.	2.2	135
137	A prognostic algorithm for machine performance assessment and its application. Production Planning and Control, 2004, 15, 796-801.	8.8	190
138	Watchdog Agent—an infotronics-based prognostics approach for product performance degradation assessment and prediction. Advanced Engineering Informatics, 2003, 17, 109-125.	8.0	240
139	Robust performance degradation assessment methods for enhanced rolling element bearing prognostics. Advanced Engineering Informatics, 2003, 17, 127-140.	8.0	365
140	Multisensor process performance assessment through use of autoregressive modeling and feature maps. Journal of Manufacturing Systems, 2003, 22, 64-72.	13.9	24
141	E-manufacturing—fundamental, tools, and transformation. Robotics and Computer-Integrated Manufacturing, 2003, 19, 501-507.	9.9	153
142	Smart products and service systems for e-business transformation. International Journal of Technology Management, 2003, 26, 45.	0.5	38
143	Measurement of machine performance degradation using a neural network model. Computers in Industry, 1996, 30, 193-209.	9.9	110
144	Machine performance monitoring and proactive maintenance in computer-integrated manufacturing: review and perspective. International Journal of Computer Integrated Manufacturing, 1995, 8, 370-380.	4.6	77

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145	Prognostics and Health Monitoring of Li-ion Vattery for Hybrid Electric Vehicle. , 0, , .		0