

# Rafael Gouriveau

## List of Publications by Year in descending order

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57  
papers

3,247  
citations

257101

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329751

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g-index

58  
all docs

58  
docs citations

58  
times ranked

2101  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enabling Health Monitoring Approach Based on Vibration Data for Accurate Prognostics. IEEE Transactions on Industrial Electronics, 2015, 62, 647-656.	5.2	257
2	Particle filter-based prognostics: Review, discussion and perspectives. Mechanical Systems and Signal Processing, 2016, 72-73, 2-31.	4.4	230
3	Prognostics of PEM fuel cell in a particle filtering framework. International Journal of Hydrogen Energy, 2014, 39, 481-494.	3.8	215
4	Proton exchange membrane fuel cell degradation prediction based on Adaptive Neuro-Fuzzy Inference Systems. International Journal of Hydrogen Energy, 2014, 39, 11128-11144.	3.8	206
5	Degradations analysis and aging modeling for health assessment and prognostics of PEMFC. Reliability Engineering and System Safety, 2016, 148, 78-95.	5.1	204
6	Review on health-conscious energy management strategies for fuel cell hybrid electric vehicles: Degradation models and strategies. International Journal of Hydrogen Energy, 2019, 44, 6844-6861.	3.8	178
7	Prognostics and Health Management of PEMFC " State of the art and remaining challenges. International Journal of Hydrogen Energy, 2013, 38, 15307-15317.	3.8	175
8	State of the art and taxonomy of prognostics approaches, trends of prognostics applications and open issues towards maturity at different technology readiness levels. Mechanical Systems and Signal Processing, 2017, 94, 214-236.	4.4	144
9	A New Multivariate Approach for Prognostics Based on Extreme Learning Machine and Fuzzy Clustering. IEEE Transactions on Cybernetics, 2015, 45, 2626-2639.	6.2	142
10	Estimating the end-of-life of PEM fuel cells: Guidelines and metrics. Applied Energy, 2016, 177, 87-97.	5.1	116
11	Proton exchange membrane fuel cell ageing forecasting algorithm based on Echo State Network. International Journal of Hydrogen Energy, 2017, 42, 1472-1480.	3.8	104
12	Prognostics of Proton Exchange Membrane Fuel Cells stack using an ensemble of constraints based connectionist networks. Journal of Power Sources, 2016, 324, 745-757.	4.0	97
13	Proton exchange membrane fuel cell behavioral model suitable for prognostics. International Journal of Hydrogen Energy, 2015, 40, 8384-8397.	3.8	88
14	Accelerated stress test procedures for PEM fuel cells under actual load constraints: State-of-art and proposals. International Journal of Hydrogen Energy, 2015, 40, 12489-12505.	3.8	77
15	Tool wear monitoring and prognostics challenges: a comparison of connectionist methods toward an adaptive ensemble model. Journal of Intelligent Manufacturing, 2018, 29, 1873-1890.	4.4	77
16	Joint Particle Filters Prognostics for Proton Exchange Membrane Fuel Cell Power Prediction at Constant Current Solicitation. IEEE Transactions on Reliability, 2016, 65, 336-349.	3.5	73
17	Machine health condition prediction via online dynamic fuzzy neural networks. Engineering Applications of Artificial Intelligence, 2014, 35, 105-113.	4.3	67
18	SW-ELM: A summation wavelet extreme learning machine algorithm with a priori parameter initialization. Neurocomputing, 2014, 123, 299-307.	3.5	58

#	ARTICLE	IF	CITATIONS
19	ANOVA method applied to proton exchange membrane fuel cell ageing forecasting using an echo state network. <i>Mathematics and Computers in Simulation</i> , 2017, 131, 283-294.	2.4	54
20	Fuel Cells prognostics using echo state network. , 2013, , .		53
21	Defining and applying prediction performance metrics on a recurrent NARX time series model. <i>Neurocomputing</i> , 2010, 73, 2506-2521.	3.5	51
22	Connexionist-Systems-Based Long Term Prediction Approaches for Prognostics. <i>IEEE Transactions on Reliability</i> , 2012, 61, 909-920.	3.5	50
23	Remaining Useful Life Estimation by Classification of Predictions Based on a Neuro-Fuzzy System and Theory of Belief Functions. <i>IEEE Transactions on Reliability</i> , 2014, 63, 555-566.	3.5	49
24	Proton exchange membrane fuel cell system prognostics and decision-making: Current status and perspectives. <i>Renewable Energy</i> , 2021, 179, 2277-2294.	4.3	38
25	A feature extraction procedure based on trigonometric functions and cumulative descriptors to enhance prognostics modeling. , 2013, , .		35
26	Novel failure prognostics approach with dynamic thresholds for machine degradation. , 2013, , .		34
27	Prognostics in switching systems: Evidential markovian classification of real-time neuro-fuzzy predictions. , 2010, , .		30
28	Proton Exchange Membrane Fuel Cell Operation and Degradation in Shortâ€Circuit. <i>Fuel Cells</i> , 2014, 14, 894-905.	1.5	28
29	Fuel Cells Remaining Useful Lifetime Forecasting Using Echo State Network. , 2014, , .		27
30	Improving accuracy of long-term prognostics of PEMFC stack to estimate remaining useful life. , 2015, , .		27
31	Reducing arbitrary choices in model building for prognostics: An approach by applying parsimony principle on an evolving neuro-fuzzy system. <i>Microelectronics Reliability</i> , 2011, 51, 310-320.	0.9	21
32	Prognostics of Proton Exchange Membrane Fuel Cell stack in a particle filtering framework including characterization disturbances and voltage recovery. , 2014, , .		21
33	Long-term tests duration reduction for PEMFC 1/4-CHP application. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1527-1533.	3.8	21
34	Robust, reliable and applicable tool wear monitoring and prognostic: Approach based on an improved-extreme learning machine. , 2012, , .		19
35	PEMFC aging modeling for prognostics and health assessment â€¦â€¦The authors would like to thank the ANR project PROPICE (ANR-12-PRGE-0001) and the Labex ACTION project (contract â€œANR-11-LABX-01-01â€) both funded by the French National Research Agency for their support.. <i>IFAC-PapersOnLine</i> , 2015, 48, 790-795.	0.5	19
36	Towards Accurate and Reproducible Predictions for Prognostic: an Approach Combining a RRBF Network and an AutoRegressive Model. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010, 43, 140-145.	0.4	18

#	ARTICLE	IF	CITATIONS
37	Prognostics of PEM fuel cells under a combined heat and power profile. IFAC-PapersOnLine, 2015, 48, 26-31.	0.5	16
38	Features Selection Procedure for Prognostics: An Approach Based on Predictability. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 25-30.	0.4	15
39	Remaining Useful Life Estimation for PEMFC in Dynamic Operating Conditions. , 2016, , .		15
40	PEM fuel cell prognostics under variable load: A data-driven ensemble with new incremental learning. , 2016, , .		13
41	Risk management " dependability tools and case-based reasoning integration using the object formalism. Computers in Industry, 2004, 55, 255-267.	5.7	12
42	Medium term load forecasting using ANFIS predictor. , 2010, , .		10
43	Static and Dynamic Modeling of a PEMFC for Prognostics Purpose. , 2014, , .		8
44	Combined predictions for prognostics and predictive control of transportation PEMFC**The authors would like to thank the ANR project PROPICE (ANR-12-PRGE-0001) and the Labex ACTION project (contract "ANR-11-LABX-01-01") both funded by the French National Re-search Agency for their support.. IFAC-PapersOnLine, 2016, 49, 244-249.	0.5	7
45	Bearing Condition Prediction Using Enhanced Online Learning Fuzzy Neural Networks. , 2013, , 175-182.		7
46	An exTS based neuro-fuzzy algorithm for prognostics and tool condition monitoring. , 2010, , .		6
47	Developing a Health-Conscious Energy Management Strategy Based on Prognostics for a Battery/Fuel Cell Hybrid Electric Vehicle. , 2018, , .		6
48	Towards a Neuro-Fuzzy System for Time Series Forecasting in Maintenance Applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 12855-12860.	0.4	4
49	A Procedure for Failure Prognostic in Dynamic Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1597-1602.	0.4	4
50	Error estimation of a neuro-fuzzy predictor for prognostic purpose. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 131-136.	0.4	4
51	A neuro-fuzzy self built system for prognostics: a way to ensure good prediction accuracy by balancing complexity and generalization. , 2010, , .		4
52	Long term prediction approaches based on connexionist systems - A study for prognostics application. , 2011, , .		4
53	Parametric sensitivity analysis of a PEMFC physics-based model developed for prognostics. , 2015, , .		3
54	Forecasting of Renewable Energy Balance on Medium Term. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 495-500.	0.4	2

#	ARTICLE	IF	CITATIONS
55	Towards the Energy Management of a Fuel Cell/Battery Vehicle Considering Degradation. , 2017, , .		2
56	Defining and implementing a distributed and reconfigurable information system for prognostics. , 2011, , .		1
57	Description et Évaluation de risques en conduite de systÃmes industriels. Journal Europeen Des Systemes Automatises, 2003, 37, 661-684.	0.3	1