

Maria Serra

List of Publications by Year in descending order

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Version: 2024-02-01

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citations

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42
all docs

42
docs citations

42
times ranked

2339
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear adaptive observation of the liquid water saturation in polymer electrolyte membrane fuel cells. Journal of Power Sources, 2021, 492, 229641.	7.8	21
2	Controller design for polymer electrolyte membrane fuel cell systems for automotive applications. International Journal of Hydrogen Energy, 2021, 46, 23263-23278.	7.1	13
3	PEMFC state and parameter estimation through a high-gain based adaptive observer. IFAC-PapersOnLine, 2020, 53, 5895-5900.	0.9	5
4	Efficient Derivation of Functional Human Airway Epithelium from Pluripotent Stem Cells via Temporal Regulation of Wnt Signaling. Cell Stem Cell, 2017, 20, 844-857.e6.	11.1	334
5	Enhancing the Efficiency and Lifetime of a Proton Exchange Membrane Fuel Cell Using Nonlinear Model-Predictive Control With Nonlinear Observation. IEEE Transactions on Industrial Electronics, 2017, 64, 6649-6659.	7.9	44
6	Model predictive control for ethanol steam reformers with membrane separation. International Journal of Hydrogen Energy, 2017, 42, 1949-1961.	7.1	25
7	Distributed parameter model-based control of water activity and concentration of reactants in a polymer electrolyte membrane fuel cell. International Journal of Hydrogen Energy, 2017, 42, 26389-26407.	7.1	7
8	Pluripotent stem cell differentiation reveals distinct developmental pathways regulating lung versus thyroid lineage specification. Development (Cambridge), 2017, 144, 3879-3893.	2.5	73
9	Nonlinear observation in fuel cell systems: A comparison between disturbance estimation and High-Order Sliding-Mode techniques. International Journal of Hydrogen Energy, 2016, 41, 19737-19748.	7.1	23
10	Observation of the Electrochemically active Surface Area in a Proton Exchange Membrane Fuel Cell. , 2016, , .		3
11	Fast Model Predictive Control for hydrogen outflow regulation in Ethanol Steam Reformers. , 2016, , .		5
12	Nonlinear predictive control for durability enhancement and efficiency improvement in a fuel cell power system. Journal of Power Sources, 2016, 328, 250-261.	7.8	38
13	Performance and degradation of Proton Exchange Membrane Fuel Cells: State of the art in modeling from atomistic to system scale. Journal of Power Sources, 2016, 304, 207-233.	7.8	180
14	Nonlinear predictive control for the concentrations profile regulation under unknown reaction disturbances in a fuel cell anode gas channel. Journal of Power Sources, 2015, 282, 129-139.	7.8	17
15	Nonlinear distributed parameter observer design for fuel cell systems. International Journal of Hydrogen Energy, 2015, 40, 11322-11332.	7.1	21
16	Regeneration of Thyroid Function by Transplantation of Differentiated Pluripotent Stem Cells. Cell Stem Cell, 2015, 17, 527-542.	11.1	170
17	Nonlinear predictive control for the concentrations profile regulation in a PEM Fuel Cell anode gas channel. , 2014, , .		0
18	Distributed parameter model simulation tool for PEM fuel cells. International Journal of Hydrogen Energy, 2014, 39, 4044-4052.	7.1	10

#	ARTICLE	IF	CITATIONS
19	Design of linear controllers applied to an ethanol steam reformer for PEM fuel cell applications. International Journal of Hydrogen Energy, 2013, 38, 7640-7646.	7.1	10
20	Experimental model for a DMC-based control applied to a PEM fuel cell. , 2012, , .		0
21	Efficient Derivation of Purified Lung and Thyroid Progenitors from Embryonic Stem Cells. Cell Stem Cell, 2012, 10, 398-411.	11.1	358
22	Analyses of energy management strategies for a PEMFC/UC electric vehicle. , 2012, , .		2
23	Development and experimental validation of a dynamic thermal and water distribution model of an open cathode proton exchange membrane fuel cell. Journal of Power Sources, 2011, 196, 4251-4263.	7.8	32
24	Controllability study of an ethanol steam reforming process for hydrogen production. Journal of Power Sources, 2011, 196, 4411-4417.	7.8	9
25	Dynamic modeling and controllability analysis of an ethanol reformer for fuel cell application. International Journal of Hydrogen Energy, 2010, 35, 9768-9775.	7.1	27
26	Design and Analysis of Fuel-Cell Hybrid Systems Oriented to Automotive Applications. IEEE Transactions on Vehicular Technology, 2009, 58, 4720-4729.	6.3	79
27	Energy Management Strategies based on efficiency map for Fuel Cell Hybrid Vehicles. Journal of Power Sources, 2009, 190, 387-401.	7.8	149
28	Model-based fault diagnosis in PEM fuel cell systems. Journal of Power Sources, 2009, 192, 216-223.	7.8	113
29	Dynamic modeling of a three-stage low-temperature ethanol reformer for fuel cell application. Journal of Power Sources, 2009, 192, 208-215.	7.8	21
30	Analysis of the control structures for an integrated ethanol processor for proton exchange membrane fuel cell systems. Journal of Power Sources, 2009, 192, 107-113.	7.8	22
31	Numerical model for polymer electrolyte membrane fuel cells with experimental application and validation. Asia-Pacific Journal of Chemical Engineering, 2009, 4, 55-67.	1.5	1
32	Advances in HOSM Control Design and Implementation for PEM Fuel Cell Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 709-716.	0.4	4
33	Fault-Tolerant MPC Control of PEM Fuel Cells. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 11112-11117.	0.4	8
34	Performance improvement of a PEMFC system controlling the cathode outlet air flow. Journal of Power Sources, 2007, 169, 205-212.	7.8	50
35	Description of gasket failure in a 7 cell PEMFC stack. Journal of Power Sources, 2007, 169, 85-91.	7.8	50
36	Performance of diagonal control structures at different operating conditions for polymer electrolyte membrane fuel cells. Journal of Power Sources, 2006, 158, 1317-1323.	7.8	5

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37	Controllability analysis of decentralised linear controllers for polymeric fuel cells. Journal of Power Sources, 2005, 151, 93-102.	7.8	40
38	Controllability of Different Multicomponent Distillation Arrangements. Industrial & Engineering Chemistry Research, 2003, 42, 1773-1782.	3.7	66
39	Analysis of different control possibilities for the divided wall column: feedback diagonal and dynamic matrix control. Computers and Chemical Engineering, 2001, 25, 859-866.	3.8	43
40	Study of the divided wall column controllability: influence of design and operation. Computers and Chemical Engineering, 2000, 24, 901-907.	3.8	44
41	Analysis of different control possibilities for the divided wall column: feedback diagonal and dynamic matrix control. Computer Aided Chemical Engineering, 2000, 8, 283-288.	0.5	1
42	Control and optimization of the divided wall column. Chemical Engineering and Processing: Process Intensification, 1999, 38, 549-562.	3.6	82