

# Tyrone L Vincent

## List of Publications by Year in descending order

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46  
papers

1,257  
citations

623734

14  
h-index

395702

33  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1263  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aggregate Flexibility of Thermostatically Controlled Loads. IEEE Transactions on Power Systems, 2015, 30, 189-198.	6.5	526
2	Potentials and economics of residential thermal loads providing regulation reserve. Energy Policy, 2015, 79, 115-126.	8.8	68
3	A generalized battery model of a collection of Thermostatically Controlled Loads for providing ancillary service. , 2013, , .		66
4	Ramping Rate Flexibility of Residential HVAC Loads. IEEE Transactions on Sustainable Energy, 2016, 7, 865-874.	8.8	61
5	Three-Dimensional Motion and Structure Estimation Using Inertial Sensors and Computer Vision for Augmented Reality. Presence: Teleoperators and Virtual Environments, 2002, 11, 474-492.	0.6	55
6	Modeling and control of tubular solid-oxide fuel cell systems. I: Physical models and linear model reduction. Journal of Power Sources, 2011, 196, 196-207.	7.8	42
7	Modeling and control of tubular solid-oxide fuel cell systems: II. Nonlinear model reduction and model predictive control. Journal of Power Sources, 2011, 196, 208-217.	7.8	37
8	A modeling framework for optimization-based control of a residential building thermostat for time-of-use pricing. Applied Energy, 2019, 242, 1346-1357.	10.1	36
9	Compressive System Identification of LTI and LTV ARX models. , 2011, , .		33
10	Input design for structured nonlinear system identification. Automatica, 2010, 46, 990-998.	5.0	30
11	Parametric and nonparametric curve fitting. Automatica, 2006, 42, 1869-1873.	5.0	27
12	Compressive System Identification in the Linear Time-Invariant framework. , 2011, , .		27
13	End Point and Etch Rate Control Using Dual-Wavelength Laser Reflectometry with a Nonlinear Estimator. Journal of the Electrochemical Society, 1997, 144, 2467-2472.	2.9	21
14	Consensus of positive real systems cascaded with a single integrator. International Journal of Robust and Nonlinear Control, 2015, 25, 418-429.	3.7	17
15	Multiple window moving horizon estimation. Automatica, 2015, 53, 264-274.	5.0	17
16	An LFT approach to parameter estimation. Automatica, 2008, 44, 3087-3092.	5.0	16
17	Development of tin oxide synthesis by plasma-enhanced chemical vapor deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 2762.	2.1	14
18	A new robust MPC using an approximate convex hull. Automatica, 2018, 92, 115-122.	5.0	14

#	ARTICLE	IF	CITATIONS
19	A Stitching Algorithm to Identify Wide-Bandwidth Electrochemical Impedance Spectra for Li-Ion Batteries Using Binary Perturbations. Journal of the Electrochemical Society, 2018, 165, A1679-A1684.	2.9	13
20	State-of-Charge Estimation of LiFePO <sub>4</sub> Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Batteries using History-Dependent Complex-Impedance. Journal of the Electrochemical Society, 2019, 166, A4041-A4046.	2.9	12
21	Control of a solid oxide fuel cell system with sensitivity to carbon formation. Journal of Power Sources, 2013, 222, 267-276.	7.8	11
22	Implementation of Nonthreaded Estimation for Run-to-Run Control of High Mix Semiconductor Manufacturing. IEEE Transactions on Semiconductor Manufacturing, 2013, 26, 516-528.	1.7	10
23	Concentration of Measure Inequalities for Toeplitz Matrices With Applications. IEEE Transactions on Signal Processing, 2013, 61, 109-117.	5.3	9
24	Observability With Random Observations. IEEE Transactions on Automatic Control, 2014, 59, 3002-3007.	5.7	9
25	Metrology Sampling Strategies for Process Monitoring Applications. IEEE Transactions on Semiconductor Manufacturing, 2011, 24, 489-498.	1.7	8
26	System theoretic analysis of battery charging optimization. Journal of Energy Storage, 2017, 14, 168-178.	8.1	8
27	Combined Real-Time and Run-to-Run Control of Etch Depth and Spatial Uniformity in Plasma Etching. Journal of the Electrochemical Society, 1997, 144, 2473-2479.	2.9	7
28	Mixed parametric/non-parametric identification of systems with discontinuous nonlinearities. Automatica, 2013, 49, 3661-3669.	5.0	6
29	Robust $H_{\infty}$ controller design for dynamic consensus networks. International Journal of Control, 2018, 91, 1906-1919.	1.9	6
30	Complex Impedance of Li-Ion-Battery Phase-Transformation Electrodes at History-Dependent States of Charge. Journal of the Electrochemical Society, 2019, 166, A2485-A2497.	2.9	6
31	Characterizing and resolving unobservability in run-to-run control of high mix semiconductor manufacturing. , 2013, , .		5
32	Robust model predictive control of a catalytic autothermal methane reformer for fuel cell applications. Control Engineering Practice, 2018, 76, 31-40.	5.5	5
33	Sparse Reconstruction of Glucose Fluxes Using Continuous Glucose Monitors. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 17, 1797-1809.	3.0	5
34	Development of a High-Efficiency, Low-Cost Hybrid SOFC/Internal Combustion Engine Power Generator. ECS Transactions, 2021, 103, 221-230.	0.5	5
35	On the Initialization of Threaded Run-to-Run Control of Semiconductor Manufacturing. IEEE Transactions on Semiconductor Manufacturing, 2014, 27, 515-522.	1.7	4
36	Physically Based Model-Predictive Control for SOFC Stacks and Systems. ECS Transactions, 2009, 25, 1175-1184.	0.5	3

#	ARTICLE	IF	CITATIONS
37	On-line estimation of inlet and outlet composition in catalytic partial oxidation. International Journal of Hydrogen Energy, 2014, 39, 6953-6966.	7.1	3
38	Stability guarantees for primary frequency control with randomized flexible loads. , 2016, , .		3
39	A convex optimization framework for the identification of homogeneous reaction systems. Automatica, 2020, 114, 108823.	5.0	3
40	Approach for control of high-density plasma reactors through optimal pulse shaping. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 1722-1732.	2.1	2
41	Metabolic networks in a porcine model of trauma and hemorrhagic shock demonstrate different control mechanism with carbohydrate pre-feed. BMC Emergency Medicine, 2015, 15, 13.	1.9	2
42	A Convex Relaxation for Model Predictive Control of a Class of Hammerstein Systems. , 2019, 3, 942-947.		2
43	Reduced complexity dynamic programming solution for Kalman filtering of linear discrete time descriptor systems. , 2013, , .		1
44	Mixed parametric/non-parametric identification of systems with discontinuous nonlinearities. , 2013, , .		1
45	Feature selection for state-of-charge estimation of LiFePO4-Li4Ti5O12 batteries via electrochemical impedance. , 2020, , .		1
46	Steering of a grain boundary with strain, electromagnetic field, and stochastic boundary excitation. Journal of Applied Physics, 2006, 100, 103526.	2.5	0