Hector Puebla

List of Publications by Year
in descending order

58 papers	538 citations	758635 12 h-index	752256 20 g-index
58 all docs	58 docs citations	58 times ranked	406 citing authors

#	Article	IF	Citations
1	Two‐phase flow‐patterns identification in oil/gas pipelines based on fractal analysis. Canadian Journal of Chemical Engineering, 2021, 99, 874-883.	0.9	4
2	Indirect Monitoring of Anaerobic Digestion for Cheese Whey Treatment. Processes, 2021, 9, 539.	1.3	2
3	Diagnosis and Monitoring of Volatile Fatty Acids Production from Raw Cheese Whey by Multiscale Time-Series Analysis. Applied Sciences (Switzerland), 2021, 11, 5803.	1.3	3
4	Diagnosis of the Cane Sugar Crystallization Process by Multifractal Analysis of Temperature Time Series. Chemical Engineering and Technology, 2021, 44, 2064.	0.9	1
5	Monitoring a chemical reaction using pH measurements: An approach based on multiscale fractal analysis. Chaos, Solitons and Fractals, 2021, 152, 111336.	2.5	2
6	Robust Nonlinear Model Predictive Control for Two-Stage Anaerobic Digesters. Industrial & Engineering Chemistry Research, 2020, 59, 22559-22572.	1.8	9
7	A Novel Up-Flow Anaerobic Sludge Blanket Solid-State Reactor for the Treatment of Fruit and Vegetable Waste. Environmental Engineering Science, 2020, 37, 373-381.	0.8	3
8	Prediction-based control for a class of unstable time-delayed processes by using a modified sequential predictor. Journal of Process Control, 2020, 92, 98-107.	1.7	5
9	Modeling pH and temperature effects on the anaerobic treatment of tequila vinasses. Journal of Chemical Technology and Biotechnology, 2020, 95, 1953-1961.	1.6	9
10	Hydrodynamics of a modified up-flow anaerobic sludge blanket reactor treating organic fraction of municipal solids waste. International Journal of Chemical Reactor Engineering, 2020, 18, .	0.6	2
11	FRACTAL ANALYSIS OF TEMPERATURE TIME SERIES FROM BATCH SUGARCANE CRYSTALLIZATION. Fractals, 2019, 27, 1950004.	1.8	4
12	Fractal Analysis of pH Time-Series of an Anaerobic Digester for Cheese Whey Treatment. International Journal of Chemical Reactor Engineering, 2018, 16, .	0.6	3
13	Biological pest control using a model‐based robust feedback. IET Systems Biology, 2018, 12, 233-240.	0.8	12
14	Robust Cascade Control for Chemical Reactors: An Approach based on Modelling Error Compensation. International Journal of Chemical Reactor Engineering, 2017, 15, .	0.6	6
15	Non-Isothermal Effectiveness Factor for Catalytic Particles with Non-Fickian Diffusion. International Journal of Chemical Reactor Engineering, 2017, 15, .	0.6	2
16	Robust Master-Slave Synchronization of Neuronal Systems. Mathematical Problems in Engineering, 2017, 2017, 1-10.	0.6	2
17	Comparison Tools for Parametric Identification of Kinetic Model for Ethanol Production using Evolutionary Optimization Approach. International Journal of Chemical Reactor Engineering, 2016, 14, 1201-1209.	0.6	8
18	Dynamic characterization of an anaerobic digester during the start-up phase by pH time-series analysis. Chaos, Solitons and Fractals, 2016, 82, 125-130.	2.5	6

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19	A study of temperature sensor location based on fractal analysis for cascade control schemes in tubular reactors. Chemical Engineering Science, 2016, 141, 195-204.	1.9	11
20	A Green's function approach for the numerical solution of a class of fractional reaction–diffusion equations. Mathematics and Computers in Simulation, 2016, 121, 133-145.	2.4	5
21	Fractality in pH time series of continuous anaerobic bioreactors for tequila vinasses treatment. Chemical Engineering Science, 2014, 109, 17-25.	1.9	12
22	Monitoring anaerobic sequential batch reactors via fractal analysis of pH time series. Biotechnology and Bioengineering, 2013, 110, 2131-2139.	1.7	18
23	Nonstandard finite difference schemes based on Green's function formulations for reaction–diffusion–convection systems. Chemical Engineering Science, 2013, 94, 245-255.	1.9	23
24	A Simple Feedback Control Approach for Output Modulation of Spatiotemporal Patterns in a Class of Tubular Reactors. Industrial & Engineering Chemistry Research, 2013, 52, 17517-17528.	1.8	3
25	Dynamic Optimization and Robust Control of Batch Crystallization. Procedia Engineering, 2012, 42, 471-481.	1.2	4
26	The Effects of Surfactants on the Drag of a Bubble. Procedia Engineering, 2012, 42, 1840-1848.	1.2	4
27	Effect of the Ultrasonic Irradiation on the Cr(VI) Electroreduction Process in a Tubular Electrochemical Flow Reactor. Industrial & Engineering Chemistry Research, 2011, 50, 2501-2508.	1.8	5
28	Controlling spatial interacting populations. International Journal of Computer Applications in Technology, 2011, 41, 103.	0.3	0
29	High order sliding-mode dynamic control for chaotic intracellular calcium oscillations. Nonlinear Analysis: Real World Applications, 2010, 11, 217-231.	0.9	20
30	A SIMPLE ROBUST CONTROL APPROACH FOR CR(VI) REGULATION OF WASTEWATER AT ELECTROCHEMICAL MIXED-FLOW REACTORS IN SERIES. Chemical Engineering Communications, 2009, 196, 1278-1290.	1.5	1
31	Removal of Cr(VI) from wastewaters at semi-industrial electrochemical reactors with rotating ring electrodes. Journal of Hazardous Materials, 2009, 163, 1221-1229.	6.5	31
32	Controlling nonlinear waves in excitable media. Chaos, Solitons and Fractals, 2009, 39, 971-980.	2.5	8
33	Suppression of stick-slip in drillstrings: A control approach based on modeling error compensation. Journal of Sound and Vibration, 2008, 310, 881-901.	2.1	51
34	Correlation analysis of chaotic trajectories from Chua's system. Chaos, Solitons and Fractals, 2008, 36, 1157-1169.	2.5	24
35	Synchronization of coupled calcium oscillators: A robust feedback control approach. , 2008, , .		0
36	Sliding mode control of prey-predator interactions. , 2008, , .		1

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37	CONTROL OF COUPLED CIRCADIAN OSCILLATORS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 85-90.	0.4	1
38	CONTROL AND SYNCHRONIZATION OF INTRACELLULAR CALCIUM DYNAMICS: A ROBUST SLIDING CONTROL APPROACH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 79-84.	0.4	0
39	Parametric Approach for the Optimal Design of Knockout Drums. Industrial & Engineering Chemistry Research, 2007, 46, 7008-7017.	1.8	3
40	A Cascade Control Approach for a Class of Biomedical Systems. , 2006, 2006, 4420-3.		9
41	Control of the Lorenz system: Destroying the homoclinic orbits. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 338, 128-140.	0.9	11
42	A Cascade Feedback Control Approach for Hypnosis. Annals of Biomedical Engineering, 2005, 33, 1449-1463.	1.3	13
43	CONTROLLING INTRACELLULAR CALCIUM OSCILLATIONS AND WAVES. Journal of Biological Systems, 2005, 13, 173-190.	0.5	9
44	Model Approximation for Dead-Time Recycling Systems. Industrial & Engineering Chemistry Research, 2005, 44, 4336-4343.	1.8	10
45	MULTIFRACTALITY IN AN ELECTROCHEMICAL NOISE SIGNAL BY A BIOCORROSION SYSTEM. Fractals, 2004, 12, 347-354.	1.8	7
46	Multivariable control configurations for composition regulation in a fluid catalytic cracking unit. Chemical Engineering Journal, 2004, 99, 187-201.	6.6	15
47	Chaos control using small-amplitude damping signals. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 316, 196-205.	0.9	25
48	STABILITY OF OBSERVER-BASED CHAOTIC COMMUNICATIONS FOR A CLASS OF LUR'E SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1605-1618.	0.7	33
49	AN INVERSE SYSTEM APPROACH FOR CHAOTIC COMMUNICATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 1411-1422.	0.7	3
50	Linear boundary control for a class of nonlinear PDE processes. Systems and Control Letters, 2001, 44, 395-403.	1.3	27
51	A cascade control strategy for a space nuclear reactor system. Annals of Nuclear Energy, 2001, 28, 93-112.	0.9	15
52	More secure communication using chained chaotic oscillators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 283, 96-108.	0.9	17
53	Convergence rate of observer-based approach for chaotic synchronization. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 289, 193-198.	0.9	12
54	On classical PI control of chemical reactors. Chemical Engineering Science, 2001, 56, 2111-2121.	1.9	10

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55	LINEAR CONTROL IN A LATTICE OF COUPLED SECOND-ORDER OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 185-195.	0.7	3
56	Proportionalâ€"integral feedback demodulation for secure communications. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 276, 245-256.	0.9	5
57	Control of a nonlinear system with time-delayed dynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 262, 166-173.	0.9	6
58	Robust Control Approaches for Synchronization of Biochemical Oscillators. , 0, , .		0