Isaac Chairez

List of Publications by Year in descending order

257 papers	2,550 citations	236612 25 h-index	301761 39 g-index
261 all docs	261 docs citations	261 times ranked	2558 citing authors

#	Article	IF	Citations
1	Practical Realization of Implicit Homogeneous Controllers for Linearized Systems. IEEE Transactions on Industrial Electronics, 2022, 69, 5142-5151.	5.2	3
2	Non-singular terminal sliding-mode control for a manipulator robot using a barrier Lyapunov function. ISA Transactions, 2022, 121, 268-283.	3.1	43
3	Neuro-adaptive sliding mode control for underground coal gasification energy conversion process. International Journal of Control, 2022, 95, 2337-2348.	1.2	4
4	Adaptive sliding-mode trajectory tracking control for state constraint master–slave manipulator systems. ISA Transactions, 2022, 127, 273-282.	3.1	4
5	Active Disturbance Rejection Controller for a Flexible Walking Bioinspired Inchworm Mobile Robot Actuated With Shape Memory Alloy Devices. IEEE Transactions on Control Systems Technology, 2022, 30, 1790-1797.	3.2	5
6	Finite-Time Output Feedback Robust Controller Based on Tangent Barrier Lyapunov Function for Restricted State Space for Biped Robot. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5042-5055.	5.9	2
7	Sliding-Mode Control of Full-State Constraint Nonlinear Systems: A Barrier Lyapunov Function Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6593-6606.	5.9	28
8	Differential Neural Network-Based Nonparametric Identification of Eye Response to Enforced Head Motion. Mathematics, 2022, 10, 855.	1.1	3
9	Adaptive modeling of nonnegative environmental systems based on projectional Differential Neural Networks observer. Neural Networks, 2022, 151, 156-167.	3.3	4
10	Stable learning laws design for long short-term memory identifier for uncertain discrete systems via control Lyapunov functions. Neurocomputing, 2022, 491, 144-159.	3.5	1
11	Lyapunov stable learning laws for multilayer recurrent neural networks. Neurocomputing, 2022, 491, 644-657.	3.5	4
12	Brain Computer Interface for Speech Synthesis Based on Multilayer Differential Neural Networks. Cybernetics and Systems, 2022, 53, 126-140.	1.6	1
13	Adaptive terminal sliding mode control of a regulated multidimensional electrospinning device for polymeric structures. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2022, 236, 1503-1522.	0.7	1
14	Output feedback robust control for teleoperated manipulator robots with different workspace. Expert Systems With Applications, 2022, 206, 117838.	4.4	5
15	Adaptive control of a biped robot mobilized by linear actuators considering articular restrictions. , 2022, , .		0
16	Simultaneous ethylbenzene decomposition by ozone in a liquid–solid–gas three-phase system. Environmental Technology and Innovation, 2022, 28, 102788.	3.0	1
17	Mathematical modeling characterization of mannitol production by three heterofermentative lactic acid bacteria. Food and Bioproducts Processing, 2022, 135, 11-32.	1.8	2
18	Robust 3-D autonomous navigation of submersible ship using averaged sub-gradient version of integral sliding mode. Mechanical Systems and Signal Processing, 2021, 149, 107169.	4.4	5

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19	Adaptive sliding-mode controller of a lower limb mobile exoskeleton for active rehabilitation. ISA Transactions, 2021, 109, 218-228.	3.1	21
20	Removal of concentrated Cr(III) from real tannery wastewater using abiotic and anaerobic processes with native microbial consortia. Journal of Environmental Chemical Engineering, 2021, 9, 104626.	3.3	10
21	Tridimensional autonomous motion robust control of submersible ship based on averaged sub-gradient integral sliding mode approach. International Journal of Systems Science, 2021, 52, 541-554.	3.7	3
22	Sliding mode control of an ozone generator based on dual AC/DC/AC power converters. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 448-460.	0.7	5
23	Catalytic effect of Î³-Al(OH)3, Î±-FeOOH, and Î±-Fe2O3 on the ozonation-based decomposition of diethyl phthalate adsorbed on sand and soil. Environmental Science and Pollution Research, 2021, 28, 974-981.	2.7	8
24	Robust outputâ€based controller design for enlarging the region of attraction of input saturated linear systems. Asian Journal of Control, 2021, 23, 178-189.	1.9	2
25	Rational Continuous Neural Network Identifier for Singular Perturbed Systems With Uncertain Dynamical Models. IEEE Transactions on Neural Networks and Learning Systems, 2021, PP, 1-12.	7.2	1
26	Kinetic Analysis of Ozonation Degree Effect on the Physicochemical Properties of Ozonated Vegetable Oils. Ozone: Science and Engineering, 2021, 43, 546-561.	1.4	4
27	Output feedback robust disturbance rejection tracking control design for a bipedal robotic system with articulation constraints. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 992-1007.	0.7	0
28	Effect of sulphate and Chloride Ions on the Oxidation of Phenolic Compounds by Ozonation Catalyzed with CeO_2. Ozone: Science and Engineering, 2021, 43, 592-605.	1.4	4
29	Discrete event-driven control of an active orthosis regulated by electromyographic signals for Canis lupus familiaris. Intelligent Service Robotics, 2021, 14, 485-499.	1.6	0
30	Non-parametric identification of homogeneous dynamical systems. Automatica, 2021, 129, 109600.	3.0	2
31	Assessment of 99mTc-Octreotide through a hybrid quantification method. AIP Conference Proceedings, 2021, , .	0.3	0
32	Dynamic Motion Backstepping Control of Underwater Autonomous Vehicle Based on Averaged Sub-gradient Integral Sliding Mode Method. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 103, 1.	2.0	3
33	Non-Parametric Spiking Neural Network Modelling of the Eye-Movement Response to Enforced Controlled Accelerations. IFAC-PapersOnLine, 2021, 54, 311-316.	0.5	0
34	Musculoskeletal Neural Network path generator for a virtual upper-limb active controlled orthosis. , 2021, 2021, 6491-6495.		1
35	Tracking control of tomographic image acquisition robotic system based on active disturbance rejection theory with adaptive gains. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2020, 234, 81-95.	0.7	3
36	Composite active disturbance rejection robust control for a prototype of an active damping artificial ankle prosthesis. Asian Journal of Control, 2020, 22, 908-923.	1.9	5

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37	Terephthalic acid decomposition by photocatalytic ozonation with $V_x O_y$/ZnO under different UV-A LEDs distributions. Chemical Engineering Communications, 2020, 207, 263-277.	1.5	4
38	Robust observer-based controller design for state constrained uncertain systems: attractive ellipsoid method. International Journal of Control, 2020, 93, 1397-1407.	1.2	6
39	Three Microalgae Strains Growth and Lipids Production Based on Human Urine Solutions Supplemented with Four Metals. Waste and Biomass Valorization, 2020, 11, 1309-1320.	1.8	0
40	Enhanced hydrogen production by a sequential dark and photo fermentation process: Effects of initial feedstock composition, dilution and microbial population. Renewable Energy, 2020, 147, 924-936.	4.3	40
41	Mechatronic design and implementation of a bicycle virtual reality system. ISA Transactions, 2020, 97, 336-351.	3.1	6
42	Parametric characterization of the initial pH effect on the polysaccharides production by Lentinula edodes in submerged culture. Food and Bioproducts Processing, 2020, 119, 170-178.	1.8	14
43	Catalytic ozonation of 4-chlorophenol and 4-phenolsulfonic acid by CeO2 films. Catalysis Communications, 2020, 133, 105827.	1.6	15
44	Continuous and recurrent pattern dynamic neural networks recognition of electrophysiological signals. Biomedical Signal Processing and Control, 2020, 57, 101783.	3.5	9
45	Efficient production of fatty acid methyl esters by a wastewater-isolated microalgae-yeast co-culture. Environmental Science and Pollution Research, 2020, 27, 28490-28499.	2.7	11
46	Influence of Sodium Sulfate on the Direct Red 28 Degradation by Ozone in a Wastewater Recycling Process: A Stoichiometric and Novel Image Analysis. Ozone: Science and Engineering, 2020, 42, 428-438.	1.4	4
47	Tomographic 99mTc radioactivity quantification in three-dimensional printed polymeric phantoms with bioinspired geometries. Radiation Physics and Chemistry, 2020, 177, 109130.	1.4	4
48	Robust control for master–slave manipulator system avoiding obstacle collision under restricted working space. IET Control Theory and Applications, 2020, 14, 1375-1386.	1.2	6
49	Enhanced Naproxen Elimination in Water by Catalytic Ozonation Based on NiO Films. Catalysts, 2020, 10, 884.	1.6	5
50	Robust control for state constrained systems based on composite barrier Lyapunov functions. International Journal of Robust and Nonlinear Control, 2020, 30, 7238-7254.	2.1	5
51	Experimental Validation of the Mathematical Model of the Dimethyl Phthalate Degradation by Ozone in the Solid Phase. Industrial & Engineering Chemistry Research, 2020, 59, 16136-16145.	1.8	0
52	Multi-link endoscopic manipulator robot actuated by shape memory alloys spring actuators controlled by a sliding mode. ISA Transactions, 2020, , .	3.1	10
53	Event driven sliding mode control of a lower limb exoskeleton based on a continuous neural network electromyographic signal classifier. Mechatronics, 2020, 72, 102451.	2.0	11
54	Hybrid State Constraint Adaptive Disturbance Rejection Controller for a Mobile Worm Bio-Inspired Robot. Mathematical and Computational Applications, 2020, 25, 13.	0.7	8

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55	Hybrid (2D/3D) Dosimetry of Radiolabeled Gold Nanoparticles for Sentinel Lymph Node Detection in Patients with Breast Cancer. Contrast Media and Molecular Imaging, 2020, 2020, 1-7.	0.4	9
56	Terminal Sliding-Mode Control of Virtual Humanoid Robot with Joint Restrictions Walking on stepping objects. Cybernetics and Systems, 2020, 51, 402-425.	1.6	4
57	Time-varying output-based Takagiâ€"Sugeno fuzzy controller of uncertain nonlinear systems. International Journal of Systems Science, 2020, 51, 1495-1510.	3.7	1
58	Effect of the type of soil on dimethyl phthalate degradation by ozone. Journal of Environmental Management, 2020, 270, 110863.	3.8	14
59	Simultaneous Optimization of Biomass and Metabolite Production by a Microalgae-Yeast Co-culture Under Inorganic Micronutrients. Bioenergy Research, 2020, 13, 974-985.	2.2	11
60	Projectional Observers of Nonlinear Systems With Full-State Constraints. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3078-3082.	2.2	0
61	Improving ozonation to remove carbamazepine through ozone-assisted catalysis using different NiO concentrations. Environmental Science and Pollution Research, 2020, 27, 22184-22194.	2.7	14
62	Time-delay mathematical model of lagged lactic acid production using agro-industrial wastes as substrate. Applied Mathematical Modelling, 2020, 83, 136-145.	2.2	6
63	Adaptive tracking control of an unmanned aerial system based on a dynamic neural-fuzzy disturbance estimator. ISA Transactions, 2020, 101, 309-326.	3.1	17
64	Adaptive Tracking Control of State Constraint Systems Based on Differential Neural Networks: A Barrier Lyapunov Function Approach. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 5390-5401.	7.2	44
65	Robust minâ€"max optimal control design for systems with uncertain models: A neural dynamic programming approach. Neural Networks, 2020, 125, 153-164.	3.3	7
66	Robust Gradient Estimator for Unknown Frequency Estimation in Noisy Environment: Application to Grid-Synchronization. IEEE Access, 2020, 8, 70693-70702.	2.6	15
67	Output based bilateral adaptive control of partially known robotic systems. Control Engineering Practice, 2020, 98, 104362.	3.2	3
68	Robust Control of a Master-Slave Manipulator Under Restricted Task-Space. Mechanisms and Machine Science, 2020, , 240-248.	0.3	1
69	Prototype of a Surgical Robot with Contact Force Feedback. IFMBE Proceedings, 2020, , 993-1001.	0.2	0
70	Design and Development of 3D Printed Electromyographic Upper Limb Prosthesis. IFMBE Proceedings, 2020, , 985-992.	0.2	0
71	Unsupervised learning for a clustering algorithm based on ellipsoidal calculus. , 2020, , .		1
72	DNN projectional observer for advanced ozonation systems of complex contaminants mixtures. IFAC-PapersOnLine, 2020, 53, 7872-7877.	0.5	0

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73	Adaptive Discontinuous Control for Homogeneous Systems Approximated by Neural Networks. IFAC-PapersOnLine, 2020, 53, 7885-7890.	0.5	1
74	Recycling strategy for water contaminated with Reactive Black 5 in the presence of additives treated by simple ozonation. Ozone: Science and Engineering, 2019, 41, 46-59.	1.4	4
75	A survey on artificial neural networks application for identification and control in environmental engineering: Biological and chemical systems with uncertain models. Annual Reviews in Control, 2019, 48, 250-272.	4.4	46
76	Hierarchical artificial neural network modelling of aluminum alloy properties used in die casting. International Journal of Advanced Manufacturing Technology, 2019, 104, 1541-1550.	1.5	3
77	Output Second-order Sliding-mode Control for a Gecko Biomimetic Climbing Robot. Journal of Bionic Engineering, 2019, 16, 633-646.	2.7	8
78	Hybrid position–admittance realization of an adaptive output super-twisting controller for a robotic scalpel. Control Engineering Practice, 2019, 93, 104161.	3.2	5
79	Fixed-time robust output feedback control of a restricted state biped robot based on a tangent barrier Lyapunov function. , 2019, , .		1
80	Decentralized sliding-mode control of robotic manipulator with constraint workspace: a finite-convergent barrier Lyapunov approach. , 2019, , .		3
81	Terminal sliding mode control of a virtual humanoid robot. , 2019, , .		3
82	Inhibition effect of ethanol in naproxen degradation by catalytic ozonation with NiO. RSC Advances, 2019, 9, 14822-14833.	1.7	12
83	Hybrid position/force output feedback second-order sliding mode control for a prototype of an active orthosis used in back-assisted mobilization. Medical and Biological Engineering and Computing, 2019, 57, 1843-1860.	1.6	7
84	Impedance Adaptive Controller for a Prototype of a Whiplash Syndrome Rehabilitation Device. Mathematical Problems in Engineering, 2019, 2019, 1-21.	0.6	2
85	Robust identification of unknown inputs in electrical stimulation of ex-vivo animal models. Biomedical Signal Processing and Control, 2019, 52, 103-110.	3.5	1
86	Adaptive output control of a mobile manipulator hanging from a quadcopter unmanned vehicle. ISA Transactions, 2019, 94, 200-217.	3.1	17
87	Output Adaptive Control of a Skid Steering Autonomous Vehicle. , 2019, , .		1
88	Differential Neural Network Identification for Homogeneous Dynamical Systems. IFAC-PapersOnLine, 2019, 52, 233-238.	0.5	5
89	Step-by-step implicit discrete super-twisting differentiator for input-output linearizable nonlinear systems. IFAC-PapersOnLine, 2019, 52, 783-788.	0.5	1
90	Design of a Continuous Signal Generator Based on Sliding Mode Control of Three-Phase AC-DC Power Converters. Energies, 2019, 12, 4468.	1.6	1

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91	A Facile Route to Synthesize a TiNT-RuO$_2$ Electrocatalyst for Electro-Generated Active Chlorine Production. Journal of the Electrochemical Society, 2019, 166, H783-H790.	1.3	4
92	Automatic electroencephalographic information classifier based on recurrent neural networks. International Journal of Machine Learning and Cybernetics, 2019, 10, 2283-2295.	2.3	7
93	Output-based modeling of catalytic ozonation by differential neural networks with discontinuous learning law. Chemical Engineering Research and Design, 2019, 122, 83-93.	2.7	1
94	Robust control of uncertain feedback linearizable systems based on adaptive disturbance estimation. ISA Transactions, 2019, 87, 1-9.	3.1	9
95	Adaptive sliding-mode observer for second order discrete-time MIMO nonlinear systems based on recurrent neural-networks. International Journal of Machine Learning and Cybernetics, 2019, 10, 2851-2866.	2.3	9
96	Automatic detection of electrocardiographic arrhythmias by parallel continuous neural networks implemented in FPGA. Neural Computing and Applications, 2019, 31, 363-375.	3.2	11
97	Projectional Learning Laws for Differential Neural Networks Based on Double-Averaged Sub-Gradient Descent Technique. Lecture Notes in Computer Science, 2019, , 28-38.	1.0	0
98	Integrated wearable and self-carrying active upper limb orthosis. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2018, 232, 172-184.	1.0	11
99	Adaptive Unknown Input Estimation by Sliding Modes and Differential Neural Network Observer. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 3499-3509.	7.2	8
100	A hybrid dynamic model of shape memory alloy spring actuators. Measurement: Journal of the International Measurement Confederation, 2018, 114, 340-353.	2.5	17
101	Polyhydroxyalkanoates (PHA) production by photoheterotrophic microbial consortia: Effect of culture conditions over microbial population and biopolymer yield and composition. European Polymer Journal, 2018, 98, 94-104.	2.6	38
102	Multimodal molecular 3D imaging for the tumoral volumetric distribution assessment of folate-based biosensors. Medical and Biological Engineering and Computing, 2018, 56, 1135-1148.	1.6	3
103	Performance intensification of a stirred bioreactor for fermentative biohydrogen production. Preparative Biochemistry and Biotechnology, 2018, 48, 64-74.	1.0	5
104	Realization of robust optimal control by dynamic neural-programming. IFAC-PapersOnLine, 2018, 51, 468-473.	0.5	3
105	Differential neural networks observer for second order systems with sampled and quantized output. IFAC-PapersOnLine, 2018, 51, 490-495.	0.5	10
106	Adaptive Proportional Derivative Controller of Cooperative Manipulators. IFAC-PapersOnLine, 2018, 51, 232-237.	0.5	7
107	Adaptive sliding-mode control with integral compensation for robotic devices with state constraints. IFAC-PapersOnLine, 2018, 51, 506-511.	0.5	3
108	State Estimation of Catalytic Ozonation by Differential Neural Networks with Discontinuous Learning Law. IFAC-PapersOnLine, 2018, 51, 462-467.	0.5	0

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109	Estimation of Contaminants Decomposition in Solid Phase with Ozone by Differential Neural Networks with Discontinuous Learning Law. , 2018, , .		0
110	Finite-time parametric identification for the model representing the metabolic and genetic regulatory effects of sequential aerobic respiration and anaerobic fermentation processes in Escherichia coli. Mathematical Medicine and Biology, 2018, 35, 299-317.	0.8	0
111	Ozonation of polynuclear aromatic hydrocarbons in combination with activated carbon in the presence of methanol. Chemical Engineering Communications, 2018, 205, 1678-1690.	1.5	4
112	Distributed Finite-Time State Estimation of Interconnected Complex Metabolic Networks. Complexity, 2018, 2018, 1-20.	0.9	0
113	Tracking control of uncertain time delay systems: An ADRC approach. Control Engineering Practice, 2018, 78, 97-104.	3.2	20
114	Suboptimal adaptive control of dynamic systems with state constraints based on Barrier Lyapunov functions. IET Control Theory and Applications, 2018, 12, 1116-1124.	1.2	11
115	Naphthalene degradation by catalytic ozonation based on nickel oxide: study of the ethanol as cosolvent. Environmental Science and Pollution Research, 2017, 24, 25550-25560.	2.7	13
116	Adaptive Neural Network Nonparametric Identifier With Normalized Learning Laws. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1216-1227.	7.2	12
117	Adaptive control of discrete‐time nonlinear systems by recurrent neural networks in quasi‐sliding mode like regime. International Journal of Adaptive Control and Signal Processing, 2017, 31, 83-96.	2.3	5
118	A comparative study of alumina-supported Ni catalysts prepared by photodeposition and impregnation methods on the catalytic ozonation of 2,4-dichlorophenoxyacetic acid. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	7
119	Quasi-minimal active disturbance rejection control of MIMO perturbed linear systems based on differential neural networks and the attractive ellipsoid method. ISA Transactions, 2017, 71, 304-316.	3.1	2
120	Mechatronic design and implementation of a two axes sun tracking photovoltaic system driven by a robotic sensor. Mechatronics, 2017, 47, 148-159.	2.0	39
121	Two-layer dynamic neural field learning law basec on controlled Lyapunov functions. , 2017, , .		0
122	Ozonation Degree of Vegetable Oils as the Factor of Their Anti-Inflammatory and Wound-Healing Effectiveness. Ozone: Science and Engineering, 2017, 39, 374-384.	1.4	17
123	Neuro-fuzzy controller for attitude-tracking stabilization of a multi-rotor unmanned aerial system. , 2017, , .		2
124	Active disturbance rejection control based on differential neural networks. , 2017, , .		1
125	Preclinical Biokinetic Modelling of Tc-99m Radiophamaceuticals Obtained from Semi-Automatic Image Processing. Journal of Medical and Biological Engineering, 2017, 37, 887-898.	1.0	2
126	Output feedback control of a skid-steered mobile robot based on the super-twisting algorithm. Control Engineering Practice, 2017, 58, 193-203.	3.2	29

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127	Super-twisting-based continuous neural networks modelling of second-order interconnected systems. Mathematical and Computer Modelling of Dynamical Systems, 2017, 23, 156-176.	1.4	2
128	Takagiâ€"Sugeno Dynamic Neuro-Fuzzy Controller of Uncertain Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2017, 25, 1601-1615.	6.5	78
129	Windowed electroencephalographic signal classifier based on continuous neural networks with delays in the input. Expert Systems With Applications, 2017, 68, 1-10.	4.4	2
130	Phenanthrene degradation in soil by ozonation: Effect of morphological and physicochemical properties. Chemosphere, 2017, 169, 53-61.	4.2	27
131	Trajectory tracking disturbance rejection controller for a state constrained biped robot. , 2017, , .		0
132	Trajectory tracking adaptive disturbance rejection controller for a tomographic robotic system. , 2017, , .		2
133	Continuous two-staged co-digestion process for biohydrogen production from agro-industrial wastes. International Journal of Energy Research, 2016, 40, 257-272.	2.2	12
134	Robust Control for State Constrained Uncertain Systems: Attractive Ellipsoid Method Approach. IFAC-PapersOnLine, 2016, 49, 19-23.	0.5	4
135	Sequential Treatment of Tequila Industry Vinasses by Biopolymer-based Coagulation/Flocculation and Catalytic Ozonation. Ozone: Science and Engineering, 2016, 38, 279-290.	1.4	21
136	Switched constrained linear adaptive identifier for the trichloroethylene elimination in sequential upflow anaerobic sludge blanket. Applied Mathematical Modelling, 2016, 40, 3720-3737.	2.2	1
137	Distributed parameter system identification using finite element differential neural networks. Applied Soft Computing Journal, 2016, 43, 633-642.	4.1	29
138	Pattern recognition for electroencephalographic signals based on continuous neural networks. Neural Networks, 2016, 79, 88-96.	3.3	33
139	A novel culture medium designed for the simultaneous enhancement of biomass and lipid production by Chlorella vulgaris UTEX 26. Bioresource Technology, 2016, 212, 207-216.	4.8	22
140	Robust Parameter Identification to Perform the Modeling of pta and poxB Genes Deletion Effect on Escherichia Coli. Applied Biochemistry and Biotechnology, 2016, 179, 1418-1434.	1.4	3
141	Characterization of nitrogen substrate limitation on Escherichia coliâ€™s growth by parameter identification tools. Bioprocess and Biosystems Engineering, 2016, 39, 1151-1161.	1.7	1
142	Control of discrete time systems based on recurrent Super-Twisting-like algorithm. ISA Transactions, 2016, 64, 47-55.	3.1	45
143	Effects of fluid dynamics on enhanced biohydrogen production in a pilot stirred tank reactor: CFD simulation and experimental studies. International Journal of Hydrogen Energy, 2016, 41, 14630-14640.	3.8	26
144	Output based backstepping control for trajectory tracking of an Autonomous Underwater Vehicle. , 2016, , .		18

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145	Bilateral output based control of a Master-Slave mechanical system: An Active Disturbance Rejection approach. , 2016, , .		1
146	Parametric identifier of metabolic network associated to hydrogen production in Escherichia coli based on robust sliding-mode differentiation. Network Modeling Analysis in Health Informatics and Bioinformatics, 2016, 5, 1.	1.2	0
147	Robust disturbance rejection control of a biped robotic system using high-order extended state observer. ISA Transactions, 2016, 62, 276-286.	3.1	43
148	Adaptive identifier for uncertain complex-valued discrete-time nonlinear systems based on recurrent neural networks. Neural Processing Letters, 2016, 43, 133-153.	2.0	4
149	Parametric identifier of metabolic networks based on robust differentiation. IFAC-PapersOnLine, 2015, 48, 783-788.	0.5	0
150	Modeling the Phenanthrene Decomposition Adsorbed in Soil by Ozone: Model Characterization and Experimental Validation. Water, Air, and Soil Pollution, 2015, 226, 1.	1.1	1
151	Correlation of structural characterization and viscosity measurements with total unsaturation: An effective method for controlling ozonation in the preparation of ozonated grape seed and sunflower oils. European Journal of Lipid Science and Technology, 2015, 117, 988-998.	1.0	11
152	Efficient mineralization of benzoic and phthalic acids in water by catalytic ozonation using a nickel oxide catalyst. New Journal of Chemistry, 2015, 39, 7839-7848.	1.4	18
153	Microorganism Inactivation by Ozone Dissolved in Aqueous Solution: A Kinetic Study Based on Bacterial Culture Lipid Unsaturation. Ozone: Science and Engineering, 2015, 37, 119-126.	1.4	6
154	Robust Trajectory Tracking of a Delta Robot Through Adaptive Active Disturbance Rejection Control. IEEE Transactions on Control Systems Technology, 2015, 23, 1387-1398.	3.2	127
155	Robust Control of Semi-active Ankle Prosthesis Driven by Electromyographic and Electro-goniometric Signals. IFMBE Proceedings, 2015, , 277-280.	0.2	1
156	Assisted Rehabilitation by Robotic Orthosis of Spinal Cord and Back Injuries. IFMBE Proceedings, 2015, , 242-245.	0.2	1
157	Ozone Dosage Effect on C6 Cell Growth: in Vitro and in Vivo Tests. Anti-Cancer Agents in Medicinal Chemistry, 2015, 15, 1190-1196.	0.9	2
158	Discrete‐time non‐linear state observer based on a super twisting‐like algorithm. IET Control Theory and Applications, 2014, 8, 803-812.	1.2	35
159	Two-Stage Optimization of Coliforms, Helminth Eggs, and Organic Matter Removals from Municipal Wastewater by Ozonation Based on the Response Surface Method. Ozone: Science and Engineering, 2014, 36, 570-581.	1.4	9
160	Active disturbance rejection robust control for uncertain systems with ill-defined relative degree. , 2014, , .		2
161	Switching robust control for ozone generators using the attractive ellipsoid method. ISA Transactions, 2014, 53, 1796-1806.	3.1	6
162	Adaptive Identifier for Uncertain Complex Nonlinear Systems Based on Continuous Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 483-494.	7.2	11

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163	Multiple DNN identifier for uncertain nonlinear systems based on Takagiâ€"Sugeno inference. Fuzzy Sets and Systems, 2014, 237, 118-135.	1.6	8
164	Ozone dosage effect on C6 cell growth, in vitro and in vivo tests: double bond index for characterization. Analytical Methods, 2014, 6, 4567-4575.	1.3	2
165	Continuous neural identifier for uncertain nonlinear systems with time delays in the input signal. Neural Networks, 2014, 60, 53-66.	3.3	10
166	Proportional derivative fuzzy control supplied with second order sliding mode differentiation. Engineering Applications of Artificial Intelligence, 2014, 35, 84-94.	4.3	20
167	Selective adaptation of an anaerobic microbial community: Biohydrogen production by co-digestion of cheese whey and vegetables fruit waste. International Journal of Hydrogen Energy, 2014, 39, 12541-12550.	3.8	88
168	Control of multiplicative noise stochastic gene regulation systems by the attractive ellipsoid technique. International Journal of Control, Automation and Systems, 2014, 12, 1018-1029.	1.6	2
169	Uniform step-by-step observer for aerobic bioreactor based on super-twisting algorithm. Bioprocess and Biosystems Engineering, 2014, 37, 2493-2503.	1.7	12
170	Identification and control of class of nonâ€linear systems with nonâ€symmetric deadzone using recurrent neural networks. IET Control Theory and Applications, 2014, 8, 183-192.	1.2	34
171	Photocatalytic ozonation of terephthalic acid: a by-product-oriented decomposition study. Environmental Science and Pollution Research, 2014, 21, 12241-12248.	2.7	13
172	Controlled Continuous Bio-Hydrogen Production Using Different Biogas Release Strategies. Applied Biochemistry and Biotechnology, 2014, 173, 1737-1751.	1.4	17
173	Finite time convergent learning law for continuous neural networks. Neural Networks, 2014, 50, 175-182.	3.3	5
174	Super-twisting sliding mode differentiation for improving PD controllers performance of second order systems. ISA Transactions, 2014, 53, 1096-1106.	3.1	26
175	Parameter identification of a permanent magnet synchronous motor. , 2014, , .		3
176	Nonlinear discrete time neural network observer. Neurocomputing, 2013, 101, 73-81.	3.5	17
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