Isaac Chairez

List of Publications by Year
in descending order

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257	2,550	236612	301761
papers	citations	25 h-index	39 g-index

261	261	261	2558
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	Takagiâ€“Sugeno Dynamic Neuro-Fuzzy Controller of Uncertain Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2017, 25, 1601-1615.	6.5	78
4	Decomposition of toxic pollutants in landfill leachate by ozone after coagulation treatment. Journal of Hazardous Materials, 2008, 152, 1108-1114.	6.5	76
5	Reactivity of NiO for 2,4-D degradation with ozone: XPS studies. Journal of Hazardous Materials, 2013, 262, 472-481.	6.5	73
6	Remediation of lignin and its derivatives from pulp and paper industry wastewater by the combination of chemical precipitation and ozonation. Journal of Hazardous Materials, 2009, 169, 428-434.	6.5	68
7	Surface interactions and mechanistic studies of 2,4-dichlorophenoxyacetic acid degradation by catalytic ozonation in presence of Ni/TiO2. Chemical Engineering Journal, 2013, 222, 426-434.	6.6	53
8	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
9	Application of a neural observer to phenols ozonation in water: Simulation and kinetic parameters identification. Water Research, 2005, 39, 2611-2620.	5.3	45
10	Control of discrete time systems based on recurrent Super-Twisting-like algorithm. ISA Transactions, 2016, 64, 47-55.	3.1	45
11	Wavelet Differential Neural Network Observer. IEEE Transactions on Neural Networks, 2009, 20, 1439-1449.	4.8	44
12	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
13	Robust disturbance rejection control of a biped robotic system using high-order extended state observer. ISA Transactions, 2016, 62, 276-286.	3.1	43
14	Non-singular terminal sliding-mode control for a manipulator robot using a barrier Lyapunov function. ISA Transactions, 2022, 121, 268-283.	3.1	43
15	New Sliding-Mode Learning Law for Dynamic Neural Network Observer. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 1338-1342.	2.3	41
16	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
17	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
18	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

#	Article	IF	Citations
19	Discreteâ€time nonâ€linear state observer based on a super twistingâ€like algorithm. IET Control Theory and Applications, 2014, 8, 803-812.	1.2	35
20	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
21	Pattern recognition for electroencephalographic signals based on continuous neural networks. Neural Networks, 2016, 79, 88-96.	3.3	33
22	Dynamic numerical reconstruction of a fungal biofiltration system using differential neural network. Journal of Process Control, 2009, 19, 1103-1110.	1.7	32
23	Distributed parameter system identification using finite element differential neural networks. Applied Soft Computing Journal, 2016, 43, 633-642.	4.1	29
24	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
25	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
26	Phenanthrene degradation in soil by ozonation: Effect of morphological and physicochemical properties. Chemosphere, 2017, 169, 53-61.	4.2	27
27	Super-twisting sliding mode differentiation for improving PD controllers performance of second order systems. ISA Transactions, 2014, 53, 1096-1106.	3.1	26
28	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
29	Enhanced Phenol and Chlorinated Phenols Removal by Combining Ozonation and Biodegradation. Water, Air, and Soil Pollution, 2012, 223, 4047-4064.	1.1	24
30	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
31	Application of the differential neural network observer to the kinetic parameters identification of the anthracene degradation in contaminated model soil. Journal of Hazardous Materials, 2007, 146, 661-667.	6.5	21
32	Differential Neuro-Fuzzy Controller for Uncertain Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2013, 21, 369-384.	6.5	21
33	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
34	Adaptive sliding-mode controller of a lower limb mobile exoskeleton for active rehabilitation. ISA Transactions, 2021, 109, 218-228.	3.1	21
35	Proportional derivative fuzzy control supplied with second order sliding mode differentiation. Engineering Applications of Artificial Intelligence, 2014, 35, 84-94.	4.3	20
36	Tracking control of uncertain time delay systems: An ADRC approach. Control Engineering Practice, 2018, 78, 97-104.	3.2	20

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37	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
38	Output based backstepping control for trajectory tracking of an Autonomous Underwater Vehicle. , 2016, , .		18
39	Nonlinear discrete time neural network observer. Neurocomputing, 2013, 101, 73-81.	3.5	17
40	Biohydrogen Production Based on the Evaluation of Kinetic Parameters of a Mixed Microbial Culture Using Glucose and Fruitâ€“Vegetable Waste as Feedstocks. Applied Biochemistry and Biotechnology, 2013, 171, 279-293.	1.4	17
41	Controlled Continuous Bio-Hydrogen Production Using Different Biogas Release Strategies. Applied Biochemistry and Biotechnology, 2014, 173, 1737-1751.	1.4	17
42	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
43	A hybrid dynamic model of shape memory alloy spring actuators. Measurement: Journal of the International Measurement Confederation, 2018, 114, 340-353.	2.5	17
44	Adaptive output control of a mobile manipulator hanging from a quadcopter unmanned vehicle. ISA Transactions, 2019, 94, 200-217.	3.1	17
45	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
46	Dynamic neural observers and their application for identification and purification of water by ozone. Automation and Remote Control, 2006, 67, 887-899.	0.4	16
47	BTEX decomposition by ozone in gaseous phase. Journal of Environmental Management, 2012, 95, S55-S60.	3.8	16
48	Observer design for a class of parabolic PDE via sliding modes and backstepping. , 2010, , .		15
49	Generalized Super-Twisting Observer for Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14353-14358.	0.4	15
50	Catalytic ozonation of 4-chlorophenol and 4-phenolsulfonic acid by CeO2 films. Catalysis Communications, 2020, 133, 105827.	1.6	15
51	Robust Gradient Estimator for Unknown Frequency Estimation in Noisy Environment: Application to Grid-Synchronization. IEEE Access, 2020, 8, 70693-70702.	2.6	15
52	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
53	Effect of the type of soil on dimethyl phthalate degradation by ozone. Journal of Environmental Management, 2020, 270, 110863.	3.8	14
54	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

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55	Photocatalytic ozonation of terephthalic acid: a by-product-oriented decomposition study. Environmental Science and Pollution Research, 2014, 21, 12241-12248.	2.7	13
56	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
57	Stable weights dynamics for a class of differential neural network observer. IET Control Theory and Applications, 2009, 3, 1437-1447.	1.2	12
58	Uniform step-by-step observer for aerobic bioreactor based on super-twisting algorithm. Bioprocess and Biosystems Engineering, 2014, 37, 2493-2503.	1.7	12
59	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
60	Adaptive Neural Network Nonparametric Identifier With Normalized Learning Laws. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1216-1227.	7.2	12
61	Inhibition effect of ethanol in naproxen degradation by catalytic ozonation with NiO. RSC Advances, 2019, 9, 14822-14833.	1.7	12
62	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
63	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
64	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
65	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
66	Automatic detection of electrocardiographic arrhythmias by parallel continuous neural networks implemented in FPGA. Neural Computing and Applications, 2019, 31, 363-375.	3.2	11
67	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
68	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
69	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
70	Neural numerical modeling for uncertain distributed parameter systems. , 2009, , .		10
71	Effect of Additives on Ozone-Based Decomposition of Reactive Black 5 and Direct Red 28 Dyes. Water Environment Research, 2013, 85, 291-300.	1.3	10
72	Continuous neural identifier for uncertain nonlinear systems with time delays in the input signal. Neural Networks, 2014, 60, 53-66.	3.3	10

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73	Differential neural networks observer for second order systems with sampled and quantized output. IFAC-PapersOnLine, 2018, 51, 490-495.	0.5	10
74	Multi-link endoscopic manipulator robot actuated by shape memory alloys spring actuators controlled by a sliding mode. ISA Transactions, 2020, , .	3.1	10
75	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
76	Coliforms and Helminth Eggs Removals by Coagulation-Flocculation Treatment Based on Natural Polymers. Journal of Water Resource and Protection, 2013, 05, 1027-1036.	0.3	10
77	Reconstruction of Dynamics of Aqueous Phenols and Their Products Formation in Ozonation Using Differential Neural Network Observers. Industrial & Engineering Chemistry Research, 2007, 46, 5855-5866.	1.8	9
78	Discrete time recurrent neural network observer. , 2009, , .		9
79	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
80	Robust control of uncertain feedback linearizable systems based on adaptive disturbance estimation. ISA Transactions, 2019, 87, 1-9.	3.1	9
81	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
82	Continuous and recurrent pattern dynamic neural networks recognition of electrophysiological signals. Biomedical Signal Processing and Control, 2020, 57, 101783.	3.5	9
83	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
84	Hybrid Differential Neural Network Identifier for Partially Uncertain Hybrid Systems. , 2009, , 149-168.		9
85	Multiple DNN identifier for uncertain nonlinear systems based on Takagiâ€“Sugeno inference. Fuzzy Sets and Systems, 2014, 237, 118-135.	1.6	8
86	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
87	Output Second-order Sliding-mode Control for a Gecko Biomimetic Climbing Robot. Journal of Bionic Engineering, 2019, 16, 633-646.	2.7	8
88	Hybrid State Constraint Adaptive Disturbance Rejection Controller for a Mobile Worm Bio-Inspired Robot. Mathematical and Computational Applications, 2020, 25, 13.	0.7	8
89	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
90	Sliding Mode Neurocontrol with Applications. , 0, , .		7

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91	High order dynamic neuro observer: application for ozone generator. , 2008, , .		7
92	Numerical modeling of the benzene reaction with ozone in gas phase using differential neural networks. Catalysis Today, 2010, 151, 159-165.	2.2	7
93	Sampled output based continuous second order sliding mode observer. , 2010, , .		7
94	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
95	Adaptive Proportional Derivative Controller of Cooperative Manipulators. IFAC-PapersOnLine, 2018, 51, 232-237.	0.5	7
96	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
97	Automatic electroencephalographic information classifier based on recurrent neural networks. International Journal of Machine Learning and Cybernetics, 2019, 10, 2283-2295.	2.3	7
98	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
99	A CONTINUOUS TIME NEURO-OBSERVER FOR HUMAN IMMUNODEFICIENCY VIRUS (HIV) DYNAMICS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 223-228.	0.4	6
100	Fuzzy control for obstacle avoiding in mobile robots using stereo vision algorithms. , 2011, , .		6
101	Switching robust control for ozone generators using the attractive ellipsoid method. ISA Transactions, 2014, 53, 1796-1806.	3.1	6
102	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
103	Robust observer-based controller design for state constrained uncertain systems: attractive ellipsoid method. International Journal of Control, 2020, 93, 1397-1407.	1.2	6
104	Mechatronic design and implementation of a bicycle virtual reality system. ISA Transactions, 2020, 97, 336-351.	3.1	6
105	Robust control for masterâ€“slave manipulator system avoiding obstacle collision under restricted working space. IET Control Theory and Applications, 2020, 14, 1375-1386.	1.2	6
106	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
107	Practical stability analysis for DNN observation. , 2008, , .		5
108	DNN-state identification of 2D distributed parameter systems. International Journal of Systems Science, 2012, 43, 296-307.	3.7	5

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109	Finite time convergent learning law for continuous neural networks. Neural Networks, 2014, 50, 175-182.	3.3	5
110	Adaptive control of discreteâ€time nonlinear systems by recurrent neural networks in quasiâ€sliding mode like regime. International Journal of Adaptive Control and Signal Processing, 2017, 31, 83-96.	2.3	5
111	Performance intensification of a stirred bioreactor for fermentative biohydrogen production. Preparative Biochemistry and Biotechnology, 2018, 48, 64-74.	1.0	5
112	Catalytic Ozonation as a Promising Technology for Application in Water Treatment: Advantages and Constraints. , 0, , .		5
113	Hybrid positionâ€“admittance realization of an adaptive output super-twisting controller for a robotic scalpel. Control Engineering Practice, 2019, 93, 104161.	3.2	5
114	Differential Neural Network Identification for Homogeneous Dynamical Systems. IFAC-PapersOnLine, 2019, 52, 233-238.	0.5	5
115	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
116	Enhanced Naproxen Elimination in Water by Catalytic Ozonation Based on NiO Films. Catalysts, 2020, 10, 884.	1.6	5
117	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
118	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
119	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
120	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
121	Output feedback robust control for teleoperated manipulator robots with different workspace. Expert Systems With Applications, 2022, 206, 117838.	4.4	5
122	Kinetic study of toxic pollutants decomposition by ozone in landfill leachate using a numerical adaptive method. International Journal of Environmental Engineering, 2011, 3, 221.	0.1	4
123	Active Disturbance Rejection Control based on a simultaneous adaptive observer and a time varying parameter identifier. , 2013, , .		4
124	Robust Control for State Constrained Uncertain Systems: Attractive Ellipsoid Method Approach. IFAC-PapersOnLine, 2016, 49, 19-23.	0.5	4
125	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
126	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

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127	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
128	A Facile Route to Synthesize a TiNT-RuO₂ Electrocatalyst for Electro-Generated Active Chlorine Production. Journal of the Electrochemical Society, 2019, 166, H783-H790.	1.3	4
129	Terephthalic acid decomposition by photocatalytic ozonation with V_xO_y/ZnO under different UV-A LEDs distributions. Chemical Engineering Communications, 2020, 207, 263-277.	1.5	4
130	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
131	Tomographic 99mTc radioactivity quantification in three-dimensional printed polymeric phantoms with bioinspired geometries. Radiation Physics and Chemistry, 2020, 177, 109130.	1.4	4
132	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
133	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
134	Effect of sulphate and Chloride Ions on the Oxidation of Phenolic Compounds by Ozonation Catalyzed with CeO₂. Ozone: Science and Engineering, 2021, 43, 592-605.	1.4	4
135	Neuro-adaptive sliding mode control for underground coal gasification energy conversion process. International Journal of Control, 2022, 95, 2337-2348.	1.2	4
136	Adaptive sliding-mode trajectory tracking control for state constraint masterâ€“slave manipulator systems. ISA Transactions, 2022, 127, 273-282.	3.1	4
137	Adaptive modeling of nonnegative environmental systems based on projectional Differential Neural Networks observer. Neural Networks, 2022, 151, 156-167.	3.3	4
138	Lyapunov stable learning laws for multilayer recurrent neural networks. Neurocomputing, 2022, 491, 644-657.	3.5	4
139	Sliding mode neurocontrol for the class of dynamic uncertain non-linear systems. International Journal of Control, 2008, 81, 74-88.	1.2	3
140	Neural network identification of uncertain 2D partial differential equations. , 2009, , .		3
141	Adaptive linearization for nonlinear systems using continuous Neural Networks. , 2010, , .		3
142	Design of mixed Luenberger and sliding continuous mode observer using sampled output information. , 2010, , .		3
143	3D Nonparametric Neural Identification. Journal of Control Science and Engineering, 2012, 2012, 1-10.	0.8	3
144	Parameter identification of a permanent magnet synchronous motor. , 2014, , .		3

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145	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
146	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
147	Realization of robust optimal control by dynamic neural-programming. IFAC-PapersOnLine, 2018, 51, 468-473.	0.5	3
148	Adaptive sliding-mode control with integral compensation for robotic devices with state constraints. IFAC-PapersOnLine, 2018, 51, 506-511.	0.5	3
149	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
150	Decentralized sliding-mode control of robotic manipulator with constraint workspace: a finite-convergent barrier Lyapunov approach. , 2019, , .		3
151	Terminal sliding mode control of a virtual humanoid robot. , 2019, , .		3
152	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
153	Output based bilateral adaptive control of partially known robotic systems. Control Engineering Practice, 2020, 98, 104362.	3.2	3
154	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
155	Practical Realization of Implicit Homogeneous Controllers for Linearized Systems. IEEE Transactions on Industrial Electronics, 2022, 69, 5142-5151.	5.2	3
156	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
157	Differential Neural Network-Based Nonparametric Identification of Eye Response to Enforced Head Motion. Mathematics, 2022, 10, 855.	1.1	3
158	Neural differential tracking control in cancer model. , 2006, , .		2
159	Hepatitis C Dynamics' Estimation Process by Differential Neural Networks.. , 2006, , .		2
160	Projectional differential neural network observer with stable adaptation weights. , 2008, , .		2
161	Differential Neural Networks Observers: Development, Stability Analysis and Implementation. , 2008, , .		2
162	Robust identification of uncertain nonlinear systems with state constrains by Differential Neural Networks. , 2009, , .		2

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163	Model predictive control by differential neural networks approach. , 2010, , .		2
164	Design of variable gain super-twisting observer for nonlinear systems with sampled output. , 2010, , .		2
165	Non-parametric Modeling of the Optical Nerve Response by Trans-corneal Stimulation Using Differential Neural Networks. , 2010, , .		2
166	Adaptive multi-channel portable stimulator based on PWM: A tool for micro-stimulation using multi-array electrodes. , 2011, , .		2
167	Discrete time supper-twisting observer for 2n dimensional systems. , 2011, , .		2
168	Continuous Neural Networks and Finite Element Application for the Tissue Deformation Reconstruction Dynamic. , 2012, , .		2
169	Continuous Neural Networks for Electroencephalography Waveform Classification. , 2012, , .		2
170	Active disturbance rejection robust control for uncertain systems with ill-defined relative degree. , 2014, , .		2
171	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
172	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
173	Effect of Inorganic Additives in the Textile Dyes Removal by Ozonation. , 0, , .		2
174	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
175	Neuro-fuzzy controller for attitude-tracking stabilization of a multi-rotor unmanned aerial system. , 2017, , .		2
176	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
177	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
178	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
179	Trajectory tracking adaptive disturbance rejection controller for a tomographic robotic system. , 2017, , .		2
180	Impedance Adaptive Controller for a Prototype of a Whiplash Syndrome Rehabilitation Device. Mathematical Problems in Engineering, 2019, 2019, 1-21.	0.6	2

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181	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
182	Non-parametric identification of homogeneous dynamical systems. Automatica, 2021, 129, 109600.	3.0	2
183	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
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