

Iftikhar Ahmad

List of Publications by Year in descending order

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73
papers

1,448
citations

346980

22
h-index

425179

34
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73
all docs

73
docs citations

73
times ranked

1118
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive study on upgradation of pyrolysis products through co-feeding of waste tire into rice straw under broad range of co-feed ratios in a bench-scale fixed bed reactor. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 4751-4765.	2.9	10
2	Artificial intelligence-based nonlinear control of renewable energies and storage system in a DC microgrid. <i>ISA Transactions</i> , 2022, 121, 217-231.	3.1	23
3	Nonlinear adaptive control of magnetic levitation system using terminal sliding mode and integral backstepping sliding mode controllers. <i>ISA Transactions</i> , 2022, 126, 121-133.	3.1	19
4	Adaptive terminal and supertwisting sliding mode controllers for acute Leukemia therapy. <i>Biomedical Signal Processing and Control</i> , 2022, 71, 103121.	3.5	13
5	Fuzzy-barrier sliding mode control of electric-hydrogen hybrid energy storage system in DC microgrid: Modelling, management and experimental investigation. <i>Energy</i> , 2022, 239, 122260.	4.5	30
6	An autonomous hybrid DC microgrid with ANN-fuzzy and adaptive terminal sliding mode multi-level control structure. <i>Control Engineering Practice</i> , 2022, 121, 105036.	3.2	14
7	Faults and Fault Ride Through strategies for grid-connected photovoltaic system: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112125.	8.2	24
8	Process Modeling, Optimization and Cost Analysis of a Sulfur Recovery Unit by Applying Pinch Analysis on the Claus Process in a Gas Processing Plant. <i>Mathematics</i> , 2022, 10, 88.	1.1	8
9	Robust nonlinear control of battery electric vehicle charger in grid to vehicle and vehicle to grid applications. <i>Journal of Energy Storage</i> , 2022, 52, 104813.	3.9	19
10	Hierarchical control of hybrid direct current microgrid with variable structure based sliding mode control and fuzzy energy management system. <i>Journal of the Franklin Institute</i> , 2022, 359, 6856-6892.	1.9	7
11	Adaptive Nonlinear Control of Unified Model of Fuel Cell, Battery, Ultracapacitor and Induction Motor Based Hybrid Electric Vehicles. <i>IEEE Access</i> , 2021, 9, 57486-57509.	2.6	14
12	Estimation of cutpoint temperature under uncertain feed composition and process conditions using artificial intelligence methods. <i>Computer Aided Chemical Engineering</i> , 2021, 50, 971-976.	0.3	0
13	Robust integral backstepping and terminal synergetic control of course keeping for ships. <i>Ocean Engineering</i> , 2021, 221, 108532.	1.9	25
14	State Feedback and Synergetic controllers for tuberculosis in infected population. <i>IET Systems Biology</i> , 2021, 15, 83-92.	0.8	4
15	Sliding mode-based controllers for automation of blood glucose concentration for type 1 diabetes. <i>IET Systems Biology</i> , 2021, 15, 72-82.	0.8	7
16	Fuzzy logic and Lyapunov-based nonlinear controllers for HCV infection. <i>IET Systems Biology</i> , 2021, 15, 53-71.	0.8	4
17	Control of Transformerless Inverter-Based Two-Stage Grid-Connected Photovoltaic System Using Adaptive-PI and Adaptive Sliding Mode Controllers. <i>Energies</i> , 2021, 14, 2546.	1.6	11
18	Fuzzy supertwisting sliding mode-based energy management and control of hybrid energy storage system in electric vehicle considering fuel economy. <i>Journal of Energy Storage</i> , 2021, 37, 102468.	3.9	37

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19	Backstepping and Synergetic Controllers for the Chemotherapy of Brain Tumor. International Journal of Control, Automation and Systems, 2021, 19, 2544-2556.	1.6	2
20	Sensitivity Analysis of Oil Shale Retorting Process through Sobol and Fourier Amplitude Sensitivity Test (FAST). , 2021, , .		0
21	Machine Learning Applications in Biofuelsâ€™ Life Cycle: Soil, Feedstock, Production, Consumption, and Emissions. Energies, 2021, 14, 5072.	1.6	10
22	Stochastic numerical computing with Levenberg-Marquardt backpropagation for performance analysis of heat Sink of functionally graded material of the porous fin. Surfaces and Interfaces, 2021, 26, 101403.	1.5	26
23	Robust integral backstepping controller for energy management in plugin hybrid electric vehicles. Journal of Energy Storage, 2021, 42, 103079.	3.9	19
24	Robust nonlinear control of battery electric vehicle charger in grid to vehicle applications. Journal of Energy Storage, 2021, 42, 103039.	3.9	25
25	Dual-stage adaptive control of hybrid energy storage system for electric vehicle application. Journal of Energy Storage, 2021, 43, 103165.	3.9	7
26	Conditioned-based robust nonlinear control of plug-in hybrid electric vehicle with saturated control actions. Journal of Energy Storage, 2021, 43, 103201.	3.9	9
27	Model-Based Quality, Exergy, and Economic Analysis of Fluidized Bed Membrane Reactors. Membranes, 2021, 11, 765.	1.4	2
28	Design and Development of a Computational Tool for a Dialyzer by Using Computational Fluid Dynamic (CFD) Model. Membranes, 2021, 11, 916.	1.4	0
29	Quantitative analysis of product quality of naphtha reforming process under uncertain process conditions. Chemical Engineering Communications, 2020, 207, 1092-1102.	1.5	3
30	Drivers and Barriers for Efficient Energy Management Practices in Energy-Intensive Industries: A Case-Study of Iron and Steel Sector. Sustainability, 2020, 12, 7703.	1.6	10
31	Nonlinear controllers for fuel cell, photovoltaic cell and battery based hybrid energy management system. Journal of Energy Storage, 2020, 32, 101796.	3.9	5
32	Multistage adaptive nonlinear control of battery-ultracapacitor based plugin hybrid electric vehicles. Journal of Energy Storage, 2020, 32, 101813.	3.9	23
33	Supertwisting Sliding Mode Algorithm Based Nonlinear MPPT Control for a Solar PV System with Artificial Neural Networks Based Reference Generation. Energies, 2020, 13, 3695.	1.6	36
34	Computational Fluid Dynamics (CFD) Modeling and Simulation of Flow Regulatory Mechanism in Artificial Kidney Using Finite Element Method. Membranes, 2020, 10, 139.	1.4	6
35	Adaptive Control of Fuel Cell and Supercapacitor Based Hybrid Electric Vehicles. Energies, 2020, 13, 5587.	1.6	16
36	Lightweight protective configurations against blast and fragments impact: Experimental and numerical studies. AIP Advances, 2020, 10, 095221.	0.6	7

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37	Data based sensing of Shale Oil yield in Oil Shale Retorting process. IOP Conference Series: Materials Science and Engineering, 2020, 899, 012009.	0.3	1
38	Back-stepping based Pressure Controller for Managed Pressure Drilling. , 2020, , .		0
39	Control of MagLev System Using Supertwisting and Integral Backstepping Sliding Mode Algorithm. IEEE Access, 2020, 8, 51352-51362.	2.6	43
40	Robust Integral Backstepping Control for Unified Model of Hybrid Electric Vehicles. IEEE Access, 2020, 8, 49038-49052.	2.6	16
41	Non-linear control for electric power stage of fuel cell vehicles. ISA Transactions, 2020, 102, 117-134.	3.1	10
42	Gray-box Soft Sensors in Process Industry: Current Practice, and Future Prospects in Era of Big Data. Processes, 2020, 8, 243.	1.3	28
43	Double Integral sliding mode control of Leukemia Therapy. Biomedical Signal Processing and Control, 2020, 61, 102046.	3.5	21
44	Design of integral terminal sliding mode controller for the hybrid AC/DC microgrids involving renewables and energy storage systems. International Journal of Electrical Power and Energy Systems, 2020, 119, 105857.	3.3	57
45	Variable structure-based control of fuel cell-supercapacitor-battery based hybrid electric vehicle. Journal of Energy Storage, 2020, 29, 101365.	3.9	63
46	An adaptive backstepping based non-linear controller for artificial pancreas in type 1 diabetes patients. Biomedical Signal Processing and Control, 2019, 47, 49-56.	3.5	25
47	Design of Fuzzy-PI and Fuzzy-Sliding Mode Controllers for Single-Phase Two-Stages Grid-Connected Transformerless Photovoltaic Inverter. Electronics (Switzerland), 2019, 8, 520.	1.8	58
48	Integral Backstepping and Synergetic Control for Tracking of Infected Cells During Early Antiretroviral Therapy. IEEE Access, 2019, 7, 69447-69455.	2.6	14
49	Model Development and Exergy Analysis of a Microreactor for the Steam Methane Reforming Process in a CFD Environment. Entropy, 2019, 21, 399.	1.1	7
50	Data-Based Prediction and Stochastic Analysis of Entrained Flow Coal Gasification under Uncertainty. Sensors, 2019, 19, 1626.	2.1	3
51	Output Voltage Regulation of FC-UC Based Hybrid Electric Vehicle Using Integral Backstepping Control. IEEE Access, 2019, 7, 65693-65702.	2.6	33
52	Integral Backstepping based MPPT controller for photo-voltaic system using SEPIC converter. , 2019, , .		1
53	Integral Backstepping and Synergetic Control of Magnetic Levitation System. IEEE Access, 2019, 7, 173230-173239.	2.6	15
54	Nonlinear Control for Growth of Cancerous Tumor Cells. IEEE Access, 2019, 7, 177628-177636.	2.6	10

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55	Data-Based Sensing and Stochastic Analysis of Biodiesel Production Process. <i>Energies</i> , 2019, 12, 63.	1.6	8
56	Nonlinear Controller Analysis of Fuel Cell“Battery”“Ultracapacitor-based Hybrid Energy Storage Systems in Electric Vehicles. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 3123-3133.	1.7	38
57	Backstepping based non-linear control for maximum power point tracking in photovoltaic system. <i>Solar Energy</i> , 2018, 159, 134-141.	2.9	80
58	Dimensions and Analysis of Uncertainty in Industrial Modeling Process. <i>Journal of Chemical Engineering of Japan</i> , 2018, 51, 533-543.	0.3	13
59	Data-based Sensing of Composition and Quality of Product in Biodiesel Production. , 2018, , .		0
60	Double Integral Sliding Mode Control of Continuous Gain Four Quadrant Quasi-Z-Source Converter. <i>IEEE Access</i> , 2018, 6, 77785-77795.	2.6	31
61	Backstepping Sliding Mode Control of FC-UC Based Hybrid Electric Vehicle. <i>IEEE Access</i> , 2018, 6, 77202-77211.	2.6	42
62	An Artificial Intelligence Method for Energy Efficient Operation of Crude Distillation Units under Uncertain Feed Composition. <i>Energies</i> , 2018, 11, 2993.	1.6	20
63	IoT Operating System Based Fuzzy Inference System for Home Energy Management System in Smart Buildings. <i>Sensors</i> , 2018, 18, 2802.	2.1	61
64	A Review on Recent Advances and Future Trends of Transformerless Inverter Structures for Single-Phase Grid-Connected Photovoltaic Systems. <i>Energies</i> , 2018, 11, 1968.	1.6	51
65	Exergy analysis and optimisation of naphtha reforming process with uncertainty. <i>International Journal of Exergy</i> , 2018, 26, 247.	0.2	6
66	MPPT for photovoltaic system using nonlinear backstepping controller with integral action. <i>Solar Energy</i> , 2018, 170, 192-200.	2.9	93
67	MPPT for Photovoltaic System Using Nonlinear Controller. <i>International Journal of Photoenergy</i> , 2018, 2018, 1-11.	1.4	31
68	Computational fluid dynamics based model development and exergy analysis of naphtha reforming reactors. <i>International Journal of Exergy</i> , 2017, 24, 344.	0.2	9
69	Backstepping Based Automatic Blood Glucose Nonlinear Controller for Diabetes Mellitus Type 1 Patients. <i>Advanced Science Letters</i> , 2016, 22, 2652-2656.	0.2	10
70	Gray-box modeling for prediction and control of molten steel temperature in tundish. <i>Journal of Process Control</i> , 2014, 24, 375-382.	1.7	40
71	Prediction of Molten Steel Temperature in Steel Making Process with Uncertainty by Integrating Gray-Box Model and Bootstrap Filter. <i>Journal of Chemical Engineering of Japan</i> , 2014, 47, 827-834.	0.3	13
72	High-Performance Prediction of Molten Steel Temperature in Tundish through Gray-Box Model. <i>ISIJ International</i> , 2013, 53, 76-80.	0.6	14

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73	Data-Based Ground Fault Diagnosis of Power Cable Systems. SICE Journal of Control Measurement and System Integration, 2013, 6, 290-297.	0.4	8