

# Ton Duc Do

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

2,599  
citations

331538

21  
h-index

206029

48  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2905  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric vehicles and smart grid interaction: A review on vehicle to grid and renewable energy sources integration. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 34, 501-516.	8.2	820
2	Adaptive PID Speed Control Design for Permanent Magnet Synchronous Motor Drives. <i>IEEE Transactions on Power Electronics</i> , 2015, 30, 900-908.	5.4	236
3	A Neural-Network-Based Model Predictive Control of Three-Phase Inverter With an Output LCL Filter. <i>IEEE Access</i> , 2019, 7, 124737-124749.	2.6	140
4	Application of Different Optimization Algorithms for Optimal Sizing of PV/Wind/Diesel/Battery Storage Stand-Alone Hybrid Microgrid. <i>IEEE Access</i> , 2019, 7, 119223-119245.	2.6	137
5	Coyote Optimization Algorithm for Parameters Estimation of Various Models of Solar Cells and PV Modules. <i>IEEE Access</i> , 2020, 8, 111102-111140.	2.6	102
6	An Adaptive Voltage Control Strategy of Three-Phase Inverter for Stand-Alone Distributed Generation Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2013, 60, 5660-5672.	5.2	91
7	Osmotin-loaded magnetic nanoparticles with electromagnetic guidance for the treatment of Alzheimer's disease. <i>Nanoscale</i> , 2017, 9, 10619-10632.	2.8	86
8	Robust Position Control of an Over-actuated Underwater Vehicle under Model Uncertainties and Ocean Current Effects Using Dynamic Sliding Mode Surface and Optimal Allocation Control. <i>Sensors</i> , 2021, 21, 747.	2.1	78
9	Suboptimal Control Scheme Design for Interior Permanent-Magnet Synchronous Motors: An SDRE-Based Approach. <i>IEEE Transactions on Power Electronics</i> , 2014, 29, 3020-3031.	5.4	74
10	SDRE-Based Near Optimal Control System Design for PM Synchronous Motor. <i>IEEE Transactions on Industrial Electronics</i> , 2012, 59, 4063-4074.	5.2	68
11	A Three-Phase Inverter for a Standalone Distributed Generation System: Adaptive Voltage Control Design and Stability Analysis. <i>IEEE Transactions on Energy Conversion</i> , 2014, 29, 46-56.	3.7	65
12	Station-Keeping Control of a Hovering Over-Actuated Autonomous Underwater Vehicle Under Ocean Current Effects and Model Uncertainties in Horizontal Plane. <i>IEEE Access</i> , 2021, 9, 6855-6867.	2.6	65
13	Disturbance Observer-Based Fuzzy SMC of WECSs Without Wind Speed Measurement. <i>IEEE Access</i> , 2017, 5, 147-155.	2.6	52
14	$\theta$ -Approximation Technique for Nonlinear Optimal Speed Control Design of Surface-Mounted PMSM Drives. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 1822-1831.	3.7	42
15	Nonlinear Optimal DTC Design and Stability Analysis for Interior Permanent Magnet Synchronous Motor Drives. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 2716-2725.	3.7	41
16	Guidance of Magnetic Nanocontainers for Treating Alzheimer's Disease Using an Electromagnetic, Targeted Drug-Delivery Actuator. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 569-574.	0.5	39
17	Adaptive super-twisting sliding mode control for maximum power point tracking of PMSG-based wind energy conversion systems. <i>Renewable Energy</i> , 2022, 183, 877-889.	4.3	36
18	Optimal Scheduling and Management of a Smart City Within the Safe Framework. <i>IEEE Access</i> , 2020, 8, 161847-161861.	2.6	34

#	ARTICLE	IF	CITATIONS
19	A Novel Hybrid Ant Colony-Particle Swarm Optimization Techniques Based Tuning STATCOM for Grid Code Compliance. IEEE Access, 2020, 8, 41566-41587.	2.6	33
20	High Order Disturbance Observer Based PI-PI Control System With Tracking Anti-Windup Technique for Improvement of Transient Performance of PMSM. IEEE Access, 2021, 9, 66323-66334.	2.6	28
21	A Generalized Observer for Estimating Fast-Varying Disturbances. IEEE Access, 2018, 6, 28054-28063.	2.6	24
22	High-order observers-based LQ control scheme for wind speed and uncertainties estimation in WECSs. Optimal Control Applications and Methods, 2018, 39, 1818-1832.	1.3	20
23	SDRE-Based Integral Sliding Mode Control for Wind Energy Conversion Systems. IEEE Access, 2020, 8, 51100-51113.	2.6	19
24	Disturbance observer-based integral sliding mode control for wind energy conversion systems. Wind Energy, 2020, 23, 1026-1047.	1.9	18
25	Fault/State Estimation Observer Synthesis for Uncertain T-S Fuzzy Systems. IEEE Access, 2019, 7, 358-369.	2.6	17
26	Optimal power tracking of PMSG based wind energy conversion systems by constrained direct control with fast convergence rates. International Journal of Electrical Power and Energy Systems, 2020, 118, 105807.	3.3	16
27	Cost-Effective Predictive Flux Control for a Sensorless Doubly Fed Induction Generator. IEEE Access, 2019, 7, 172606-172627.	2.6	14
28	Effective Model Predictive Voltage Control for a Sensorless Doubly Fed Induction Generator. Canadian Journal of Electrical and Computer Engineering, 2021, 44, 50-64.	1.5	13
29	Intelligent voltage control strategy for three-phase UPS inverters with output LC filter. International Journal of Electronics, 2015, 102, 1267-1288.	0.9	10
30	Band-Stop Filter Analysis and Design for 1D Magnetic Particle Imaging Hybrid System. Journal of Nanoscience and Nanotechnology, 2016, 16, 8492-8495.	0.9	10
31	A novel nonlinear observer-based LQ control system design for wind energy conversion systems with single measurement. Wind Energy, 2019, 22, 1134-1147.	1.9	10
32	Fractional-order sliding mode control synthesis of supercavitating underwater vehicles. JVC/Journal of Vibration and Control, 2020, 26, 1909-1919.	1.5	10
33	Assessing the effects of time-dependent restrictions and control actions to flatten the curve of COVID-19 in Kazakhstan. PeerJ, 2021, 9, e10806.	0.9	10
34	Deadbeat-Based Model Predictive Voltage Control for a Sensorless Five-Phase Induction Motor Drive. Mathematical Problems in Engineering, 2020, 2020, 1-30.	0.6	9
35	Takagi-Sugeno fuzzy-based integral sliding mode control for wind energy conversion systems with disturbance observer. Electrical Engineering, 2020, 102, 1141-1151.	1.2	9
36	A Novel Sensorless Control for Multiphase Induction Motor Drives Based on Singularly Perturbed Sliding Mode Observer-Experimental Validation. Applied Sciences (Switzerland), 2020, 10, 2776.	1.3	9

#	ARTICLE	IF	CITATIONS
37	Optimal control design for chaos suppression of PM synchronous motors. , 2016, , .		8
38	Polynomial Observer-Based Controller Synthesis and Fault-Tolerant Control for Tracking Optimal Power of Wind Energy Conversion Systems. IEEE Access, 2020, 8, 150130-150141.	2.6	7
39	A Nonlinear Sliding Mode Controller for IPMSM Drives with an Adaptive Gain Tuning Rule. Journal of Power Electronics, 2015, 15, 753-762.	0.9	6
40	A modified functionalized magnetic field for nanoparticle guidance in magnetic drug targeting. , 2016, , .		6
41	Functionalized Magnetic Force Enhances Magnetic Nanoparticle Guidance: From Simulation to Crossing of the Bloodâ€œBrain Barrier &lt;itali&gt;In Vivo&lt;itali&gt;. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	6
42	Direct-torque control system design using maximum torque per ampere method for interior permanent magnet synchronous motors. , 2018, , .		6
43	Robust MPPT Observer-Based Control System for Wind Energy Conversion System With Uncertainties and Disturbance. IEEE Access, 2021, 9, 96466-96477.	2.6	6
44	Asymptotic Vision-Based Tracking Control of the Quadrotor Aerial Vehicle. Mathematical Problems in Engineering, 2015, 2015, 1-9.	0.6	5
45	A robust suboptimal control system design of chaotic PMSMs. Electrical Engineering, 2018, 100, 1455-1466.	1.2	5
46	Observer-Based LQR for Wind Energy Conversion Systems with Single Measurement. , 2018, , .		5
47	Development of a Power Assist Lifting Device With a Fuzzy PID Speed Regulator. IEEE Access, 2019, 7, 30724-30731.	2.6	5
48	Dynamical Delay Unification of Disturbance Observation Techniques for PMSM Drives Control. IEEE/ASME Transactions on Mechatronics, 2022, 27, 5560-5571.	3.7	5
49	An optimized field function scheme for nanoparticle guidance in magnetic drug targeting systems. , 2015, , .		4
50	PI anti-windup speed control of permanent magnet synchronous motor based on feedforward compensation. , 2018, , .		4
51	Robust H-Infinity Speed Control of Permanent Magnet Synchronous Motor without Load Torque Observer. , 2019, , .		4
52	Maximum power tracking of variableâ€œspeed wind energy conversion systems based on a nearâ€œoptimal servomechanism control system. Optimal Control Applications and Methods, 2022, 43, 904-924.	1.3	4
53	An electromagnetic steering system for magnetic nanoparticle drug delivery. , 2015, , .		3
54	In Silico Magnetic Nanocontainers Navigation in Blood Vessels: A Feedback Control Approach. Journal of Nanoscience and Nanotechnology, 2016, 16, 6368-6373.	0.9	3

#	ARTICLE	IF	CITATIONS
55	Combined $\mathcal{H}_\infty$ and Integral Sliding Mode Controllers for Robust Speed Control of Permanent Magnet Synchronous Motor with Load Torque Observer. , 2019, , .		3
56	Fault-Tolerant Control of IPMSMs Based on an Modified Sliding Mode Observer. , 2019, , .		3
57	Linear Quadratic Regulator and Fuzzy Control for Grid-Connected Photovoltaic Systems. Energies, 2022, 15, 1286.	1.6	3
58	Design and Analysis of a Generalized High-Order Disturbance Observer for PMSMs With a Fuzzy-PI Speed Controller. IEEE Access, 2022, 10, 42252-42260.	2.6	3
59	Sliding Mode Controller with DOBC and MTPA Trajectory for Surface-Mounted PMSM. , 2018, , .		2
60	Sliding Mode Control with High-Order Disturbance Observer Design for Disturbance Estimation in SPMSM. , 2019, , .		2
61	Design of High Torque Density Permanent Magnet Motors and Drives for Collaborative Robot Applications. , 2021, , .		2
62	LQR Based SMC for Three-Phase-Inverter with LC Filter in Renewable Energy Conversion Systems. , 2019, , .		1
63	Integral Sliding Mode Controller Design for Permanent Magnet Synchronous Machines. , 2019, , .		1
64	Disturbance Observer Synthesis for Linear Systems: Application for DC Motor. , 2019, , .		1
65	Robust Shortest Path Planning for Aircraft using Bounded Region Voronoi Diagram. , 2020, , .		1
66	Hardware implementation of a 1D MPI hybrid system for targeted drug delivery. , 2015, , .		0
67	Blood Velocity Estimation Based on an Optimal Observer for Magnetic Nanorobots Navigation. MATEC Web of Conferences, 2017, 108, 05002.	0.1	0
68	Advanced Control Methods for Systems with Fast-Varying Disturbances and Applications. Mathematical Problems in Engineering, 2018, 2018, 1-1.	0.6	0
69	Robust Observer Design and Fault Reconstruction for Wind Energy Conversion System: SOS Approach. , 2019, , .		0
70	Data-Driven LQR for Permanent Magnet Synchronous Machines. , 2019, , .		0
71	Adaptive Super-Twisting Sliding Mode Control for Maximum Power Point Tracking of PMSG-Based Wind Energy Conversion Systems. SSRN Electronic Journal, 0, , .	0.4	0
72	Unknown Input Based Observer Design for Wind Energy Conversion System with Time-Delay. , 2020, , .		0