Andres Udal

List of Publications by Year
in descending order

		1683354	1588620
35 papers	122 citations	5 h-index	8 g-index
39 all docs	39 docs citations	39 times ranked	57 citing authors

#	Article	IF	Citations
1	Enhancement of photoluminescence of GaAsBi quantum wells by parabolic design of AlGaAs barriers. Nanotechnology, 2019, 30, 455001.	1.3	17
2	Laterally pumped GaAs/AlGaAs quantum wells as sources of broadband terahertz radiation. Journal of Applied Physics, 2007, 102, 073715.	1.1	9
3	Neural Predictive Tracking Control of Catamaran Model Sailboat for Situation Awareness Applications. , 2020, , .		9
4	Simulink/MATLAB based Comparison of Neural and Basic Tracking Control for an Autonomous Surface Vessel for Situation Awareness Applications. , 2019, , .		8
5	Improved C5D Electronic Realization of Conductivity Detector for Capillary Electrophoresis. Elektronika Ir Elektrotechnika, 2016, 22, .	0.4	7
6	Numerical Analysis of the On-State of Diode Structures Based on Direct-Gap Semiconductors. Physica Scripta, 1981, 24, 468-471.	1.2	6
7	Investigation of Charge Carrier Lifetime Temperature-Dependence in 4H-SiC Diodes. Materials Science Forum, 2007, 556-557, 375-378.	0.3	6
8	New concepts of automatic answer evaluation in competence based learning. , 2014, , .		6
9	Comparison of Single-Rate and Two-Rate Neural Control Approaches for Coaxial Rotor/Ducted-Fan TUAV for Situational Awareness Applications. , 2018, , .		6
10	Thermopower Measurements in 4H-SiC and Theoretical Calculations Considering the Phonon Drag Effect. Materials Science Forum, 2001, 353-356, 491-494.	0.3	5
11	Single-Rate versus Three-Rate Neural Assisted Control Approaches for Coaxial Rotor Ducted Fan TUAV for Situation Awareness Applications. , 2019, , .		5
12	High precision parabolic quantum wells grown using pulsed analog alloy grading technique: Photoluminescence probing and fractional-dimensional space approach. Journal of Luminescence, 2021, 239, 118321.	1.5	5
13	Measurement of Charge Carrier Lifetime Temperature-Dependence in 4H-SiC Power Diodes. Materials Science Forum, 2000, 338-342, 781-784.	0.3	4
14	Impact of Phonon Drag Effect on Seebeck Coefficient in p-6H-SiC: Experiment and Simulation. Materials Science Forum, 2003, 433-436, 407-410.	0.3	4
15	High Phonon-Drag Thermoelectric Efficiency of SiC at Low Temperatures. Materials Science Forum, 2004, 457-460, 693-696.	0.3	4
16	SiC-diodes forward surge current failure mechanisms: Experiment and simulation. Microelectronics Reliability, 1997, 37, 1671-1674.	0.9	3
17	An Optimal Control Method for an Autonomous Surface Vessel for Environment Monitoring and Cargo Transportation Applications. , 2021, , .		3
18	Target Tracking by Neural Predictive Control of Autonomous Surface Vessel for Environment Monitoring and Cargo Transportation Applications. , 2020, , .		3

#	Article	IF	Citations
19	Modeling of Lattice Heat Conductivity and Thermopower in SiC Considering the Four-Phonon Scattering Processes. Materials Science Forum, 2003, 433-436, 391-394.	0.3	2
20	Implementation of the robot arm in the interactive learning environment. , 2014, , .		2
21	USB audio chip based oscilloscope and signal generator for mobile laboratories. , 2012, , .		1
22	Integrated Labs for Electrical Engineering Courses in Competence Based Learning Environment - Practical Experience. , 2019, , .		1
23	A Trajectory Control Method for a Strongly Underactuated Spherical Underwater Surveillance Robot. , 2021, , .		1
24	Depopulation mechanism for incoherent terahertz source â€" THz torch â€" based on GaAsBi/GaAs quantum well in GaAs/AlGaAs parabolic quantum well. Lithuanian Journal of Physics, 2020, 60, .	0.1	1
25	Spectral properties of incoherent terahertz torch based on parabolic Ga(As,Bi)/AlGaAs quantum wells. , 2019, , .		1
26	A Model-Based Adaptive Control of an Autonomous Driving Car for Lane Change Maneuver. , 2021, , .		1
27	A Model-Based LQR Control of an Obstacle Avoidance Maneuver of a Self-Driving Car. , 2022, , .		1
28	Numerical Investigation of SiC Devices Performance Considering the Incomplete Dopant Ionization. Materials Science Forum, 2006, 527-529, 1383-1386.	0.3	0
29	Numerical aspects of the development of Quantum Cascade Laser simulation software. , 2014, , .		0
30	The method of quantum optical communication based on entangled photon pairs. , 2014, , .		0
31	Competence based interactive learning with HomeLabKits: Experience and work in progress. , 2014, , .		0
32	Progress in Development of the Resonant Tunneling Diodes as Promising Compact Sources at the THz Gap Bottom. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 169-178.	0.2	0
33	Hyperspectral camera with polarized filter as modern supersensor device for cyber-physical systems. , 2018, , .		0
34	Development and Testing of a Compact Voice Command Recognition Algorithm for Limited Complexity Microcontroller Devices. , 2018, , .		0
35	Task-Based Mobile Learning ISC-System: Built-In Coronavirus Immunity Confirmed. Advances in Intelligent Systems and Computing, 2021, , 604-616.	0.5	0