Dimitrios Piromalis

List of Publications by Year
in descending order

30 papers	799 citations	471509 17 h-index	580821 25 g-index
32 all docs	32 docs citations	32 times ranked	746 citing authors

#	Article	IF	Citations
1	3D printing: Making an innovative technology widely accessible through makerspaces and outsourced services. Materials Today: Proceedings, 2022, 49, 2712-2723.	1.8	32
2	Ontology-Based IoT Middleware Approach for Smart Livestock Farming toward Agriculture 4.0: A Case Study for Controlling Thermal Environment in a Pig Facility. Agronomy, 2022, 12, 750.	3.0	19
3	3D Printing and Implementation of Digital Twins: Current Trends and Limitations. Applied System Innovation, 2022, 5, 7.	4.6	27
4	A Modern Approach towards an Industry 4.0 Model: From Driving Technologies to Management. Journal of Sensors, 2022, 2022, 1-18.	1.1	53
5	Digital Twins in the Automotive Industry: The Road toward Physical-Digital Convergence. Applied System Innovation, 2022, 5, 65.	4.6	44
6	Enabling IoT Wireless Technologies in Sustainable Livestock Farming Toward Agriculture 4.0. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 213-232.	0.7	3
7	Adaptive Robust Controller Design-Based RBF Neural Network for Aerial Robot Arm Model. Electronics (Switzerland), 2021, 10, 831.	3.1	30
8	Employing a Low-Cost Desktop 3D Printer: Challenges, and How to Overcome Them by Tuning Key Process Parameters. International Journal of Mechanics and Applications, 2021, 10, 11-19.	9.0	17
9	Manufacturing Zero-Waste COVID-19 Personal Protection Equipment: a Case Study of Utilizing 3D Printing While Employing Waste Material Recycling. Circular Economy and Sustainability, 2021, 1, 851-869.	5.5	20
10	Fabricating Lattice Structures via 3D Printing: The Case of Porous Bio-Engineered Scaffolds. Applied Mechanics, 2021, 2, 289-302.	1.5	37
11	Early Warning Systems for COVID-19 Infections Based on Low-Cost Indoor Air-Quality Sensors and LPWANs. Sensors, 2021, 21, 6183.	3.8	19
12	The Vehicle Routing Problem with Fuzzy Payloads considering Fuel Consumption. Applied Artificial Intelligence, 2021, 35, 1755-1776.	3.2	2
13	Applications of Healthcare Robots in Combating the COVID-19 Pandemic. Applied Bionics and Biomechanics, 2021, 2021, 1-9.	1.1	20
14	A Context-Aware Middleware Cloud Approach for Integrating Precision Farming Facilities into the IoT toward Agriculture 4.0. Applied Sciences (Switzerland), 2020, 10, 813.	2.5	60
15	Conversational User Interface Integration in Controlling IoT Devices Applied to Smart Agriculture: Analysis of a Chatbot System Design. Advances in Intelligent Systems and Computing, 2020, , 1071-1088.	0.6	2
16	Building the internet of energy infrastructure: The Distributed Ledger Technologies approach. , 2019, , .		2
17	Sustainable Energy Harvesting through Triboelectric Nano – Generators: A Review of current status and applications. Energy Procedia, 2019, 157, 999-1010.	1.8	33
18	Crete – Peloponnese 150kV AC Interconnection. Simulation Results for Transient Phenomena in Main Switches. Energy Procedia, 2019, 157, 1366-1376.	1.8	3

#	Article	IF	Citations
19	Fundamental Issues of Teachersâ€™ Training in Laboratorial Teaching. , 2019, , .		1
20	Epistemologies for Technology and its Teaching: Untying the Knot of a Three-level Technological Problem. , 2019, , .		3
21	A novel autonomous PV powered desalination system based on a DC microgrid concept incorporating short-term energy storage. Solar Energy, 2018, 159, 947-961.	6.1	72
22	SensoTube: A Scalable Hardware Design Architecture for Wireless Sensors and Actuators Networks Nodes in the Agricultural Domain. Sensors, 2016, 16, 1227.	3.8	21
23	A low-cost and fast PV I-V curve tracer based on an open source platform with M2M communication capabilities for preventive monitoring. Energy Procedia, 2015, 74, 423-438.	1.8	40
24	Simulated and real pneumatic plant intelligent controlling via a low budget interface board. , 2015, , .		0
25	On battery-less autonomous polygeneration microgrids: Investigation of the combined hybrid capacitors/hydrogen alternative. Energy Conversion and Management, 2015, 91, 405-415.	9.2	23
26	Wireless Sensor Networking Architecture of Polytropon: An Open Source Scalable Platform for the Smart Grid. Energy Procedia, 2014, 50, 270-276.	1.8	18
27	Smart Solar Panels: In-situ Monitoring of Photovoltaic Panels based on Wired and Wireless Sensor Networks. Energy Procedia, 2013, 36, 535-545.	1.8	60
28	Low cost swarm robotic platforms operating with open-source software for cooperative applications. , 2013, , .		0
29	Intelligent demand side energy management system for autonomous polygeneration microgrids. Applied Energy, 2013, 103, 39-51.	10.1	135
30	Cooperative mobile robotic platforms for wireless control applications. , 2013, , .		0