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	Intelligent demand side energy management system for autonomous polygeneration microgrids. Applied Energy, 2013, 103, 39-51.	10.1	135
2	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
3	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
4	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
5	A Modern Approach towards an Industry 4.0 Model: From Driving Technologies to Management. Journal of Sensors, 2022, 2022, 1-18.	1.1	53
6	Digital Twins in the Automotive Industry: The Road toward Physical-Digital Convergence. Applied System Innovation, 2022, 5, 65.	4.6	44
7	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
8	Fabricating Lattice Structures via 3D Printing: The Case of Porous Bio-Engineered Scaffolds. Applied Mechanics, 2021, 2, 289-302.	1.5	37
9	Sustainable Energy Harvesting through Triboelectric Nano – Generators: A Review of current status and applications. Energy Procedia, 2019, 157, 999-1010.	1.8	33
10	3D printing: Making an innovative technology widely accessible through makerspaces and outsourced services. Materials Today: Proceedings, 2022, 49, 2712-2723.	1.8	32
11	Adaptive Robust Controller Design-Based RBF Neural Network for Aerial Robot Arm Model. Electronics (Switzerland), 2021, 10, 831.	3.1	30
12	3D Printing and Implementation of Digital Twins: Current Trends and Limitations. Applied System Innovation, 2022, 5, 7.	4.6	27
13	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
14	SensoTube: A Scalable Hardware Design Architecture for Wireless Sensors and Actuators Networks Nodes in the Agricultural Domain. Sensors, 2016, 16, 1227.	3.8	21
15	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
16	Applications of Healthcare Robots in Combating the COVID-19 Pandemic. Applied Bionics and Biomechanics, 2021, 2021, 1-9.	1.1	20
17	Early Warning Systems for COVID-19 Infections Based on Low-Cost Indoor Air-Quality Sensors and LPWANs. Sensors, 2021, 21, 6183.	3.8	19
18	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

#	Article	IF	Citations
19	Wireless Sensor Networking Architecture of Polytropon: An Open Source Scalable Platform for the Smart Grid. Energy Procedia, 2014, 50, 270-276.	1.8	18
20	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
21	Crete â€" Peloponnese 150kV AC Interconnection. Simulation Results for Transient Phenomena in Main Switches. Energy Procedia, 2019, 157, 1366-1376.	1.8	3
22	Epistemologies for Technology and its Teaching: Untying the Knot of a Three-level Technological Problem. , 2019, , .		3
23	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
24	Building the internet of energy infrastructure: The Distributed Ledger Technologies approach. , 2019, , .		2
25	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
26	The Vehicle Routing Problem with Fuzzy Payloads considering Fuel Consumption. Applied Artificial Intelligence, 2021, 35, 1755-1776.	3.2	2
27	Fundamental Issues of Teachersâ€™ Training in Laboratorial Teaching. , 2019, , .		1
28	Low cost swarm robotic platforms operating with open-source software for cooperative applications. , 2013, , .		0
29	Cooperative mobile robotic platforms for wireless control applications. , 2013, , .		0
30	Simulated and real pneumatic plant intelligent controlling via a low budget interface board. , 2015, , .		0