

# Yskandar Hamam

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

1,091  
citations

394286

19  
h-index

434063

31  
g-index

66  
all docs

66  
docs citations

66  
times ranked

951  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of Critical Nodes in Water Distribution Networks. IOP Conference Series: Earth and Environmental Science, 2022, 987, 012004.	0.2	1
2	Appraising the Optimal Power Flow and Generation Capacity in Existing Power Grid Topology with Increase in Energy Demand. Energies, 2022, 15, 2522.	1.6	4
3	Triangular Intuitionistic Fuzzy Aggregating and Ranking Function Approach for the Rating of Battery "End-of-Life" Handling Alternatives. Energies, 2022, 15, 2248.	1.6	4
4	Fabrication and Model Characterization of the Electrical Conductivity of PVA/PPy/rGO Nanocomposite. Molecules, 2022, 27, 3696.	1.7	9
5	Facile solvent/drying fabrication of PVA/PPy/rGO: A novel nanocomposite for energy storage applications. Results in Materials, 2022, 15, 100295.	0.9	6
6	Investigation of graphene loaded polypyrrole for lithium-ion battery. Materials Today: Proceedings, 2021, 38, 635-638.	0.9	20
7	Synthesis methods of borophene, graphene-loaded polypyrrole nanocomposites and their benefits for energy storage applications: A brief overview. FlatChem, 2021, 26, 100211.	2.8	33
8	Computational Study of Graphene"Polypyrrole Composite Electrical Conductivity. Nanomaterials, 2021, 11, 827.	1.9	5
9	Investigation and Modeling of the Electrical Conductivity of Graphene Nanoplatelets-Loaded Doped-Polypyrrole. Polymers, 2021, 13, 1034.	2.0	22
10	Electrical resistance control model for polypyrrole-graphene nanocomposite: Energy storage applications. Materials Today Communications, 2021, 26, 101699.	0.9	12
11	Recent progress on 2D metal carbide/nitride (MXene) nanocomposites for lithium-based batteries. FlatChem, 2021, 29, 100281.	2.8	20
12	Appraising the Impact of Pressure Control on Leakage Flow in Water Distribution Networks. Water (Switzerland), 2021, 13, 2617.	1.2	8
13	The Roles of Sensor Placement in Water Quality Monitoring in a Water Distribution System. Advanced Sciences and Technologies for Security Applications, 2021, , 47-66.	0.4	0
14	Prospects of nanostructured composite materials for energy harvesting and storage. Journal of King Saud University - Science, 2020, 32, 758-764.	1.6	22
15	Development and application of nanocomposite for sustainable rail vehicle with low environmental footprint. International Journal of Lightweight Materials and Manufacture, 2020, 3, 193-197.	1.3	1
16	Towards Model-Free Pressure Control in Water Distribution Networks. Water (Switzerland), 2020, 12, 2697.	1.2	5
17	Decision support systems for leak control in urban water supply systems: A literature synopsis. Procedia CIRP, 2020, 90, 579-583.	1.0	12
18	Statistical characterization and simulation of graphene-loaded polypyrrole composite electrical conductivity. Journal of Materials Research and Technology, 2020, 9, 15788-15801.	2.6	22

#	ARTICLE	IF	CITATIONS
19	Cyber-Physical Systems for Water Supply Network Management: Basics, Challenges, and Roadmap. Sustainability, 2020, 12, 9555.	1.6	15
20	A comparative power quality study of DFIG and PMSG renewable energy conversion systems. , 2020, , .		5
21	Enhancing Small-Signal Stability of Intermittent Hybrid Distributed Generations. , 2020, , .		1
22	Exploring the Potentials of Artificial Neural Network Trained with Differential Evolution for Estimating Global Solar Radiation. Energies, 2020, 13, 2488.	1.6	13
23	A Survey of Pressure Control Approaches in Water Supply Systems. Water (Switzerland), 2020, 12, 1732.	1.2	15
24	Interaction Control for Human-Exoskeletons. Journal of Control Science and Engineering, 2020, 2020, 1-15.	0.8	8
25	A Comprehensive State-of-the-Art Survey on Hybrid Renewable Energy System Operations and Planning. IEEE Access, 2020, 8, 75313-75346.	2.6	50
26	The modified logistic model for polymer-composites electrical conductivity prediction. AIP Conference Proceedings, 2020, , .	0.3	1
27	Selection of a Hybrid Renewable Energy Systems for a Low-Income Household. Sustainability, 2019, 11, 4282.	1.6	43
28	Impact of Pressure-Driven Demand on Background Leakage Estimation in Water Supply Networks. Water (Switzerland), 2019, 11, 1600.	1.2	10
29	Biopolymer Composites and Bionanocomposites for Energy Applications. Materials Horizons, 2019, , 313-341.	0.3	7
30	Development of a Contaminant Distribution Model for Water Supply Systems. Water (Switzerland), 2019, 11, 1510.	1.2	4
31	Parametric Analysis of Electrical Conductivity of Polymer-Composites. Polymers, 2019, 11, 1250.	2.0	39
32	Application of Machine Learning Based Technique for High Impedance Fault Detection in Power Distribution Network. Lecture Notes in Computer Science, 2019, , 222-231.	1.0	0
33	Minimizing the Impact of Intermittent Wind Power on Multiperiod Power System Operation with Pumped Hydro Generation. Energies, 2019, 12, 3583.	1.6	4
34	A Comprehensive State-of-the-Art Survey on the Transmission Network Expansion Planning Optimization Algorithms. IEEE Access, 2019, 7, 123158-123181.	2.6	34
35	Optimal capacity utilisation of transmission lines network in power flow operations: a survey. Journal of Engineering, Design and Technology, 2019, 17, 1056-1076.	1.1	0
36	Solving Management Problems in Water Distribution Networks: A Survey of Approaches and Mathematical Models. Water (Switzerland), 2019, 11, 562.	1.2	31

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37	A comprehensive state-of-the-art survey on power generation expansion planning with intermittent renewable energy source and energy storage. <i>International Journal of Energy Research</i> , 2019, 43, 6078-6107.	2.2	76
38	Real-Time Dynamic Hydraulic Model of Water Distribution Networks. <i>Water (Switzerland)</i> , 2019, 11, 470.	1.2	19
39	How can a low-income household procure small-scale hybrid renewable energy system?. <i>International Journal of Energy Sector Management</i> , 2019, 13, 1149-1172.	1.2	6
40	Optimal Allocation of Renewable Energy Hybrid Distributed Generations for Small-Signal Stability Enhancement. <i>Energies</i> , 2019, 12, 4777.	1.6	25
41	Water Distribution Networks Model Identification using Artificial Neural Networks. , 2019, , .		0
42	Rope-Weaver's Principles: Towards More Effective Learning. <i>SAIEE Africa Research Journal</i> , 2019, 110, 190-208.	1.1	1
43	Solar Electric Vehicle Energy Optimization for the Sasol Solar Challenge 2018. <i>IEEE Access</i> , 2019, 7, 175143-175158.	2.6	8
44	Development and utilization OF Polymers in Biomedical Applications. , 2019, , .		0
45	Detection of Winding (Shorted-Turn) Fault in Induction Machine at Incipient Stage Using DC-Centered Periodogram. , 2019, , 289-298.		0
46	Effect of Pipe Materials on Background Leakage Estimate Using Graph-Based Hydraulic Model: An Extended Study. , 2019, , 245-254.		0
47	A state-of-the-art review of an optimal sensor placement for contaminant warning system in a water distribution network. <i>Urban Water Journal</i> , 2018, 15, 985-1000.	1.0	35
48	Artificial Neural Networks in Water Distribution Systems: A Literature Synopsis. , 2018, , .		3
49	Predictive Uncertainty Estimation in Water Demand Forecasting Using the Model Conditional Processor. <i>Water (Switzerland)</i> , 2018, 10, 475.	1.2	15
50	Towards Development of an Optimization Model to Identify Contamination Source in a Water Distribution Network. <i>Water (Switzerland)</i> , 2018, 10, 579.	1.2	38
51	Pressure Management Strategies for Water Loss Reduction in Large-Scale Water Piping Networks: A Review. <i>Springer Water</i> , 2018, , 465-480.	0.2	17
52	Stability and enhancement analysis of a modelled self-balancing verticalized mobility aid using optimal control techniques. <i>African Journal of Science, Technology, Innovation and Development</i> , 2017, 9, 93-109.	0.8	1
53	Towards Achieving a Reliable Leakage Detection and Localization Algorithm for Application in Water Piping Networks: An Overview. <i>IEEE Access</i> , 2017, 5, 20272-20285.	2.6	125
54	Early Diagnosis of Induction Machine Stator Winding Faults by Discrete Wavelet Transform. <i>International Journal of Emerging Electric Power Systems</i> , 2017, 18, .	0.6	1

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55	Diagnosis of stator shorted-turn faults in induction machines using discrete wavelet transform. African Journal of Science, Technology, Innovation and Development, 2017, 9, 349-355.	0.8	11
56	Estimation of Water Demand in Water Distribution Systems Using Particle Swarm Optimization. Water (Switzerland), 2017, 9, 593.	1.2	27
57	Leakage Detection and Estimation Algorithm for Loss Reduction in Water Piping Networks. Water (Switzerland), 2017, 9, 773.	1.2	55
58	Overview, Comparative Assessment and Recommendations of Forecasting Models for Short-Term Water Demand Prediction. Water (Switzerland), 2017, 9, 887.	1.2	41
59	Bounded Control of an Actuated Lower-Limb Exoskeleton. Journal of Robotics, 2017, 2017, 1-20.	0.6	6
60	Rhythmic Trajectory Design and Control for Rehabilitative Walking in Patients with Lower Limb Disorder. International Journal of Humanoid Robotics, 2016, 13, 1650006.	0.6	7
61	Real-time Dynamic Hydraulic Model for Potable Water Loss Reduction. Procedia Engineering, 2016, 154, 99-106.	1.2	52
62	An efficient crop row detection method for agriculture robots. , 2014, , .		8
63	Coagulation process control in water treatment plants using multiple model predictive control. AEJ - Alexandria Engineering Journal, 2014, 53, 939-948.	3.4	25
64	Analysis of Knee-Ankle Orthosis Modelling: An Inverse Dynamics Approach Using Adaptive Coupled Oscillator. Lecture Notes in Computer Science, 2014, , 122-133.	1.0	3