

Daryoush Habibi

List of Publications by Year in descending order

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135
papers

3,883
citations

136950
32
h-index

144013
57
g-index

135
all docs

135
docs citations

135
times ranked

4001
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of energy storage systems in distribution networks: Placement, sizing, operation, and power quality. Renewable and Sustainable Energy Reviews, 2018, 91, 1205-1230.	16.4	398
2	Smart Charging Strategy for Electric Vehicle Charging Stations. IEEE Transactions on Transportation Electrification, 2018, 4, 76-88.	7.8	244
3	Surface aging behaviour of Fe-based amorphous alloys as catalysts during heterogeneous photo Fenton-like process for water treatment. Applied Catalysis B: Environmental, 2017, 204, 537-547.	20.2	173
4	Amorphous Fe ₇₈ Si ₉ B ₁₃ alloy: An efficient and reusable photo-enhanced Fenton-like catalyst in degradation of cibacron brilliant red 3B-A dye under UV-Vis light. Applied Catalysis B: Environmental, 2016, 192, 46-56.	20.2	161
5	Optimal placement of distributed energy storage systems in distribution networks using artificial bee colony algorithm. Applied Energy, 2018, 232, 212-228.	10.1	149
6	Power flow control in grid-connected microgrid operation using Particle Swarm Optimization under variable load conditions. International Journal of Electrical Power and Energy Systems, 2013, 49, 76-85.	5.5	129
7	Power quality enhancement in autonomous microgrid operation using Particle Swarm Optimization. International Journal of Electrical Power and Energy Systems, 2012, 42, 139-149.	5.5	126
8	A Green Communication Model for 5G Systems. IEEE Transactions on Green Communications and Networking, 2017, 1, 264-280.	5.5	125
9	Review of Polymer Composites with Diverse Nanofillers for Electromagnetic Interference Shielding. Nanomaterials, 2020, 10, 541.	4.1	96
10	A Coordinated Dynamic Pricing Model for Electric Vehicle Charging Stations. IEEE Transactions on Transportation Electrification, 2019, 5, 226-238.	7.8	94
11	Utilisation of iron ore mine tailings for the production of geopolymer bricks. International Journal of Mining, Reclamation and Environment, 2016, 30, 92-114.	2.8	85
12	Optimal allocation of distributed energy storage systems to improve performance and power quality of distribution networks. Applied Energy, 2019, 252, 113468.	10.1	81
13	Quantifying economic benefits of second life batteries of gridable vehicles in the smart grid. International Journal of Electrical Power and Energy Systems, 2014, 63, 577-587.	5.5	76
14	Optimal sizing design and operation of electrical and thermal energy storage systems in smart buildings. Journal of Energy Storage, 2020, 28, 101186.	8.1	68
15	Heterogeneous photocatalytic degradation of mordant black 11 with ZnO nanoparticles under UV-Vis light. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1636-1641.	5.3	66
16	Improving solar cooker performance using phase change materials: A comprehensive review. Solar Energy, 2020, 207, 539-563.	6.1	64
17	Voltage and frequency regulation based DC unit in an autonomous microgrid operation using Particle Swarm Optimization. International Journal of Electrical Power and Energy Systems, 2013, 53, 742-751.	5.5	59
18	Optimal Real-Time Residential Thermal Energy Management for Peak-Load Shifting With Experimental Verification. IEEE Transactions on Smart Grid, 2019, 10, 5587-5599.	9.0	59

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19	Charging Infrastructure for Commercial Electric Vehicles: Challenges and Future Works. IEEE Access, 2021, 9, 121476-121492.	4.2	59
20	Utilisation of iron ore tailings as aggregates in concrete. Cogent Engineering, 2015, 2, 1083137.	2.2	55
21	Strong enhancement on dye photocatalytic degradation by ball-milled TiO ₂ : A study of cationic and anionic dyes. Journal of Materials Science and Technology, 2017, 33, 856-863.	10.7	50
22	Advancements in electromagnetic interference shielding cementitious composites. Construction and Building Materials, 2020, 231, 117116.	7.2	50
23	Gridable vehicles and second life batteries for generation side asset management in the Smart Grid. International Journal of Electrical Power and Energy Systems, 2016, 82, 114-123.	5.5	49
24	An Improved Method to Increase the Load-Bearing Capacity of Strip Footing Resting on Geotextile-Reinforced Sand Bed. Indian Geotechnical Journal, 2015, 45, 98-109.	1.4	46
25	An improved mathematical model for a pumped hydro storage system considering electrical, mechanical, and hydraulic losses. Applied Energy, 2019, 247, 228-236.	10.1	43
26	A novel photovoltaic-pumped hydro storage microgrid applicable to rural areas. Applied Energy, 2020, 262, 114284.	10.1	42
27	A Multiple-Input Cascaded DC-DC Converter for Very Small Wind Turbines. IEEE Transactions on Industrial Electronics, 2019, 66, 4414-4423.	7.9	41
28	Extremely hard, damage-tolerant ceramic coatings with functionally graded, periodically varying architecture. Acta Materialia, 2013, 61, 193-204.	7.9	40
29	Tailoring the physicochemical and mechanical properties of optical copper-cobalt oxide thin films through annealing treatment. Surface and Coatings Technology, 2014, 239, 212-221.	4.8	40
30	A survey on energy efficiency in underwater wireless communications. Journal of Network and Computer Applications, 2022, 198, 103295.	9.1	40
31	Performance evaluation of IEEE 802.15.4 for mobile sensor networks. , 2008, , .		37
32	Green and Secure Computation Offloading for Cache-Enabled IoT Networks. IEEE Access, 2020, 8, 63840-63855.	4.2	37
33	Energy Efficient Backhauling for 5G Small Cell Networks. IEEE Transactions on Sustainable Computing, 2019, 4, 279-292.	3.1	35
34	Roles of compressive residual stress in enhancing the corrosion resistance of nano nitride composite coatings on steel. Journal of Asian Ceramic Societies, 2013, 1, 86-94.	2.3	32
35	Energy storage model with gridable vehicles for economic load dispatch in the smart grid. International Journal of Electrical Power and Energy Systems, 2015, 64, 1017-1024.	5.5	32
36	Behaviour of an embedded footing on geotextile-reinforced sand. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2016, 169, 120-133.	1.0	32

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37	Modelling self-optimised short term load forecasting for medium voltage loads using tuning fuzzy systems and Artificial Neural Networks. Energy Conversion and Management, 2015, 106, 1396-1408.	9.2	31
38	Dispatch management of portable charging stations in electric vehicle networks. ETransportation, 2021, 8, 100112.	14.8	31
39	Optimal scheduling in a microgrid with a tidal generation. Energy, 2019, 171, 435-443.	8.8	30
40	Content Caching in Industrial IoT: Security and Energy Considerations. IEEE Internet of Things Journal, 2020, 7, 491-504.	8.7	28
41	Leak Location Based on PDS-VMD of Leakage-Induced Vibration Signal Under Low SNR in Water-Supply Pipelines. IEEE Access, 2020, 8, 68091-68102.	4.2	27
42	Reducing the Impacts of Electric Vehicle Charging on Power Distribution Transformers. IEEE Access, 2020, 8, 210183-210193.	4.2	24
43	A novel mobile WiMAX solution for higher throughput. , 2008, , .		22
44	Service Class Resource Management for Green Wireless-Optical Broadband Access Networks (WOBAN). Journal of Lightwave Technology, 2015, 33, 7-18.	4.6	21
45	Behavior of embedded strip footing on sand bed reinforced with multilayer geotextile with wraparound ends. International Journal of Geotechnical Engineering, 2015, 9, 437-452.	2.0	21
46	Improving Battery Lifetime of Gridable Vehicles and System Reliability in the Smart Grid. IEEE Systems Journal, 2015, 9, 989-999.	4.6	21
47	An energy efficient resource management and planning system for 5G networks. , 2017, , .		21
48	Modelling, design, and experimental validation of a grid-connected farmhouse comprising a photovoltaic and a pumped hydro storage system. Energy Conversion and Management, 2020, 210, 112675.	9.2	21
49	Dynamic passive pressure from câ€™ soil backfills. Soil Dynamics and Earthquake Engineering, 2011, 31, 845-848.	3.8	20
50	A Comprehensive Review of Acoustic Methods for Locating Underground Pipelines. Applied Sciences (Switzerland), 2020, 10, 1031.	2.5	19
51	Transmission improvement of UMTS and Wi-Fi signals through energy saving glass using FSS. , 2011, , .		17
52	Electrical resistivity of iron ore mine tailings produced in Western Australia. International Journal of Mining, Reclamation and Environment, 2015, 29, 191-200.	2.8	17
53	An Algorithm for the Automatic Detection and Quantification of Athletesâ€™ Change of Direction Incidents Using IMU Sensor Data. IEEE Sensors Journal, 2019, 19, 4518-4527.	4.7	17
54	Transmission power control in multihop wireless sensor networks. , 2011, , .		16

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55	Effect of Submergence on Settlement and Bearing Capacity of Surface Strip Footing on Geotextile-Reinforced Sand Bed. International Journal of Geosynthetics and Ground Engineering, 2015, 1, 1.	2.0	16
56	Assessment of a Novel Algorithm to Determine Change-of-Direction Angles While Running Using Inertial Sensors. Journal of Strength and Conditioning Research, 2020, 34, 134-144.	2.1	16
57	High Utility Video Surveillance System on Public Transport Using WiMAX Technology. , 2010, , .		14
58	Architectural design of diamond-like carbon coatings for long-lasting joint replacements. Materials Science and Engineering C, 2013, 33, 2788-2794.	7.3	13
59	Photocatalytic Degradation of the Azo Dye Acid Red 14 in Nanosized TiO ₂ Suspension under Simulated Solar Light. Clean - Soil, Air, Water, 2015, 43, 1037-1043.	1.1	13
60	A Review on Green Caching Strategies for Next Generation Communication Networks. IEEE Access, 2020, 8, 212709-212737.	4.2	13
61	Green Wireless-Optical Broadband Access Network: Energy and Quality-of-Service Considerations. Journal of Optical Communications and Networking, 2015, 7, 669.	4.8	12
62	A real-time energy management strategy for pumped hydro storage systems in farmhouses. Journal of Energy Storage, 2020, 32, 101928.	8.1	12
63	Design of RF/Microwave efficient buildings using frequency selective surface. , 2011, , .		11
64	Fuzzy logic for smart utilisation of Storage Devices in a typical microgrid. , 2012, , .		11
65	Mechanical characterization of a novel nanocrystalline coating: First-principles calculations and nanoindentation. Materials Characterization, 2012, 68, 1-6.	4.4	11
66	Automated Insect Detection Using Acoustic Features Based on Sound Generated from Insect Activities. Acoustics Australia, 2017, 45, 445-451.	2.4	11
67	A Cooperative Green Content Caching Technique for Next Generation Communication Networks. IEEE Transactions on Network and Service Management, 2020, 17, 375-388.	4.9	11
68	Proactive content caching using surplus renewable energy: A win-win solution for both network service and energy providers. Future Generation Computer Systems, 2020, 105, 210-221.	7.5	11
69	Green Underwater Wireless Communications Using Hybrid Optical-Acoustic Technologies. IEEE Access, 2021, 9, 85109-85123.	4.2	11
70	Wideband slotted planar inverted-F antenna for millimeter-wave 5G mobile devices. , 2016, , .		10
71	A Secure and Energy-Aware Approach For Cognitive Radio Communications. IEEE Open Journal of the Communications Society, 2020, 1, 900-915.	6.9	10
72	Analysis of GPS and UWB positioning system for athlete tracking. Measurement: Sensors, 2021, 14, 100036.	1.7	10

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73	An Optimal Charging Solution for Commercial Electric Vehicles. IEEE Access, 2022, 10, 46162-46175.	4.2	10
74	Power quality improvement in autonomous microgrid operation using particle swarm optimization. , 2011, , .		9
75	Wireless sensor networks for fire emergency and gas detection. , 2012, , .		9
76	Loadâ€‘settlement behaviour of a strip footing resting on iron ore tailings as a structural fill. International Journal of Mining Science and Technology, 2016, 26, 247-253.	10.3	9
77	Resistivity profiles of Perth soil in Australia in leak-detection test. Geotechnical Research, 2017, 4, 214-221.	1.4	8
78	RUIM â€‘ A fire safety engineering model for rural urban interface firefighter taskforce deployment. Fire Safety Journal, 2020, 113, 102986.	3.1	8
79	Enhancing Athlete Tracking Using Data Fusion in Wearable Technologies. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	8
80	A proactive forward error control scheme for mobile WiMAX communication. , 2008, , .		7
81	Mobile Small Cells: Broadband Access Solution for Public Transport Users. , 2017, 55, 190-197.		7
82	Calculation of Critical Water Flow Rates for Wildfire Suppression. Fire, 2019, 2, 3.	2.8	7
83	An Improved FEC Scheme for Mobile Wireless Communication at Vehicular Speeds. , 2008, , .		6
84	Call Admission Control Scheme for Improved Quality of Service in WiMAX Communication at Vehicular Speeds. , 2010, , .		6
85	A Novel Optimized Scheduler to Provide QoS for Video IP Telephony over Wireless Networks. , 2011, , .		6
86	Size dependent elastic modulus and mechanical resilience of dental enamel. Journal of Biomechanics, 2014, 47, 1060-1066.	2.1	6
87	Load-Adaptive Resource Management for Green Wireless-Optical Broadband Access Network (WOBAN). Journal of Lightwave Technology, 2016, 34, 2359-2370.	4.6	6
88	A Numerical Study of Axisymmetric Wave Propagation in Buried Fluid-Filled Pipes for Optimizing the Vibro-Acoustic Technique when Locating Gas Pipelines. Energies, 2019, 12, 3707.	3.1	6
89	Radial profiling of near-borehole formation velocities by a stepwise inversion of acoustic well logging data. Journal of Petroleum Science and Engineering, 2021, 196, 107648.	4.2	6
90	Smart charging strategies for heavy electric vehicles. ETransportation, 2022, 13, 100182.	14.8	6

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91	Fourier analysis for modelling some cyclic behaviour of networks. Computer Communications, 1996, 19, 426-434.	5.1	5
92	Improving Mobile Sensor Connectivity Time in the IEEE 802.15.4 Networks. , 2008, , .		5
93	The origin of remarkable resilience of human tooth enamel. Applied Physics Letters, 2013, 103, 241901.	3.3	5
94	Studies on electrical resistivity of Perth sand. International Journal of Geotechnical Engineering, 2014, 8, 449-457.	2.0	5
95	Application of a superconducting magnetic energy storage unit for power systems stability improvement. , 2014, , .		5
96	A cell loss upper bound for heterogeneous ONâ€œOFF sources with application to connection admission control. Computer Communications, 2002, 25, 1172-1184.	5.1	4
97	Rerouting in advance for preempted IR calls in QoS-enabled networks. Computer Communications, 2008, 31, 3922-3928.	5.1	4
98	A new algorithm to improve mobile sensor node connectivity based on link quality indicator. , 2009, , .		4
99	An improved architecture for integrating Fourth Generation wireless and Passive Optical Networks. , 2012, , .		4
100	Applied application of sensor networks in underground mines. , 2012, , .		4
101	A low cost Atheros System-on-Chip and OpenWrt based testbed for 802.11 WLAN research. , 2012, , .		4
102	Bit Error Rate Analysis in WiMAX Communication at Vehicular Speeds Using Nakagami-m Fading Model. , 2012, , .		4
103	Resource Management in 4G Wireless Communications at Vehicular Speeds: A Game Theory Solution. , 2012, , .		4
104	Application of artificial intelligence to improve quality of service in computer networks. Neural Computing and Applications, 2012, 21, 81-90.	5.6	4
105	Improving quality of service in WiMAX communication at vehicular speeds: a new call admission control solution. Wireless Communications and Mobile Computing, 2013, 13, 451-459.	1.2	4
106	Thermalâ€œHydraulic Performance in a Microchannel Heat Sink Equipped with Longitudinal Vortex Generators (LVGs) and Nanofluid. Processes, 2020, 8, 231.	2.8	4
107	A Green Traffic Steering Solution for Next Generation Communication Networks. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 222-238.	7.9	4
108	Optimal Sizing of Energy Storage System to Reduce Impacts of Transportation Electrification on Power Distribution Transformers Integrated With Photovoltaic. IEEE Access, 2021, 9, 144687-144698.	4.2	4

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109	An Intelligent Model to Control Preemption Rate of Instantaneous Request Calls in Networks with Book-Ahead Reservation. , 2008, , .		3
110	Source Localisation in Wireless Sensor Networks Based on Optimised Maximum Likelihood. , 2008, , .		3
111	Performance evaluation of 802.15.4 Medium Access Control during network association and synchronization for sensor networks. , 2012, , .		3
112	Investigating transmission power control for wireless sensor networks based on 802.15.4 specifications. Telecommunication Systems, 2014, 56, 299-310.	2.5	3
113	A software defined radio based power saving strategy for next generation mobile systems. , 2018, , .		3
114	Improving firefighter tenability during entrapment and turnover: An analysis of vehicle protection systems. Fire Safety Journal, 2020, 118, 103209.	3.1	3
115	Analysis of an access node multiplexer in a system serving CBR and VBR traffic. Computer Communications, 1993, 16, 776-780.	5.1	2
116	Self-restraint Admission Control for adhoc WLANs. , 2008, , .		2
117	Efficient optimization of network protection design with p-cycles. Photonic Network Communications, 2010, 19, 22-31.	2.7	2
118	Call Admission Control Scheme for the IEEE 802.16e at Vehicular Speeds. , 2010, , .		2
119	Application framework for wireless sensor networks. , 2012, , .		2
120	Improving throughput in WiMAX communication at vehicular speeds. Journal of High Speed Networks, 2012, 18, 157-171.	0.8	2
121	A Cost-effective Thermal and Electrical Energy Storage Management Strategy for Smart Buildings. , 2019, , .		2
122	Multichannel Cognitive Medium Access Control Protocol for Vehicular Ad-Hoc Networks. , 2012, , .		1
123	4G LTE-A systems at vehicular speeds: Performance evaluation. , 2017, , .		1
124	Rapid Decolorization and Mineralization of Congo Red Using Fe ₇₈ Si ₉ B ₁₃ Amorphous Alloy by Photo Fenton-Like Process. , 2017, , 765-776.		1
125	Resource Management in Multi-Hop Mobile Small Cell Networks. , 2017, , .		1
126	Security Aware Content Caching for Next Generation Communication Networks. , 2019, , .		1

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127	PV Self-Consumption Enhancement with Optimal Residential Thermal Energy Management. , 2019, , .		1
128	An Energy-Aware Cognitive Radio-Based Communication Approach for Next Generation Wireless Networks. , 2019, , .		1
129	A range error reduction technique for positioning applications in sports. Journal of Engineering, 2021, 2021, 73-84.	1.1	1
130	Green traffic backhauling in next generation wireless communication networks incorporating FSO/mmWave technologies. Computer Communications, 2022, 182, 223-237.	5.1	1
131	Augmenting the Accuracy of EPTS and Smartwatches Using Multiband RTK GNSS Module and UWB Positioning System. , 2020, , .		1
132	Lifetime Maximization in Underwater Wireless Communication Networks. IEEE Sensors Journal, 2022, 22, 15549-15560.	4.7	1
133	Practical issues in building an embedded sensor network application using 802.15.4: Linking hardware & MAC protocol. , 2012, , .		0
134	A Ground Based Sensor Network for Water Stress Measurement. , 2018, , .		0
135	Artificial Insect Algorithms for Routing in Wireless Sensor Systems. Advances in Computational Intelligence and Robotics Book Series, 2015, , 191-213.	0.4	0