

Ben Horan

List of Publications by Year in descending order

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113
papers

3,878
citations

186209

28
h-index

138417

58
g-index

114
all docs

114
docs citations

114
times ranked

3628
citing authors

#	ARTICLE	IF	CITATIONS
1	Forecasting of photovoltaic power generation and model optimization: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 912-928.	8.2	680
2	State of the art artificial intelligence-based MPPT techniques for mitigating partial shading effects on PV systems – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 64, 435-455.	8.2	267
3	Improved Differential Evolution-Based MPPT Algorithm Using SEPIC for PV Systems Under Partial Shading Conditions and Load Variation. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 4322-4333.	7.2	222
4	Dust as an unalterable deteriorative factor affecting PV panel's efficiency: Why and how. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 65, 1267-1278.	8.2	196
5	Short-term PV power forecasting using hybrid GASVM technique. <i>Renewable Energy</i> , 2019, 140, 367-379.	4.3	195
6	Grid-connected isolated PV microinverters: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 67, 1065-1080.	8.2	147
7	Active power filter (APF) for mitigation of power quality issues in grid integration of wind and photovoltaic energy conversion system. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 70, 635-655.	8.2	140
8	Progress on the demand side management in smart grid and optimization approaches. <i>International Journal of Energy Research</i> , 2021, 45, 36-64.	2.2	119
9	Performance Evaluation of Maximum Power Point Tracking Approaches and Photovoltaic Systems. <i>Energies</i> , 2018, 11, 365.	1.6	101
10	Investigating the Role of Virtual Reality in Planning for Sustainable Smart Cities. <i>Sustainability</i> , 2017, 9, 2006.	1.6	90
11	SVR-Based Model to Forecast PV Power Generation under Different Weather Conditions. <i>Energies</i> , 2017, 10, 876.	1.6	87
12	A Review of Optimal Charging Strategy for Electric Vehicles under Dynamic Pricing Schemes in the Distribution Charging Network. <i>Sustainability</i> , 2020, 12, 10160.	1.6	81
13	Maximum Power Point Tracking for Photovoltaic Systems under Partial Shading Conditions Using Bat Algorithm. <i>Sustainability</i> , 2018, 10, 1347.	1.6	65
14	ASEAN power grid: A secure transmission infrastructure for clean and sustainable energy for South-East Asia. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 67, 1420-1435.	8.2	61
15	Energy Management System in Microgrids: A Comprehensive Review. <i>Sustainability</i> , 2021, 13, 10492.	1.6	59
16	Coil Design for High Misalignment Tolerant Inductive Power Transfer System for EV Charging. <i>Energies</i> , 2016, 9, 937.	1.6	51
17	A state-of-the-art review of hydropower in Malaysia as renewable energy: Current status and future prospects. <i>Energy Strategy Reviews</i> , 2018, 22, 426-437.	3.3	50
18	Short-Term Forecasting of the Output Power of a Building-Integrated Photovoltaic System Using a Metaheuristic Approach. <i>Energies</i> , 2018, 11, 1260.	1.6	50

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19	Present Status and Potential of Biomass Energy in Pakistan Based on Existing and Future Renewable Resources. Sustainability, 2020, 12, 249.	1.6	49
20	Dual input switchedâ€capacitorâ€based singleâ€phase hybrid boost multilevel inverter topology with reduced number of components. IET Power Electronics, 2020, 13, 881-891.	1.5	48
21	New ARMO-based MPPT Technique to Minimize Tracking Time and Fluctuation at Output of PV Systems under Rapidly Changing Shading Conditions. IEEE Transactions on Industrial Informatics, 2024, , 1-1.	7.2	46
22	Enhancing Student Motivation with use of Augmented Reality for Interactive Learning in Engineering Education. Procedia Computer Science, 2020, 172, 881-885.	1.2	46
23	Efficient Photovoltaic System Maximum Power Point Tracking Using a New Technique. Energies, 2016, 9, 147.	1.6	45
24	Haptic Microrobotic Cell Injection System. IEEE Systems Journal, 2014, 8, 371-383.	2.9	41
25	The Prospective Non-Conventional Alternate and Renewable Energy Sources in Pakistanâ€”A Focus on Biomass Energy for Power Generation, Transportation, and Industrial Fuel. Energies, 2018, 11, 2431.	1.6	41
26	Mitigation of Power Quality Issues Due to High Penetration of Renewable Energy Sources in Electric Grid Systems Using Three-Phase APF/STATCOM Technologies: A Review. Energies, 2018, 11, 1491.	1.6	41
27	Application of the hybrid ANFIS models for long term wind power density prediction with extrapolation capability. PLoS ONE, 2018, 13, e0193772.	1.1	38
28	Towards optimization of a real-world Robotic-Sensor System of Systems. , 2006, , .		35
29	Chronic work stress and decreased vagal tone impairs decision making and reaction time in jockeys. Psychoneuroendocrinology, 2017, 84, 151-158.	1.3	35
30	Mitigating Power Fluctuations for Energy Storage in Wind Energy Conversion System Using Supercapacitors. IEEE Access, 2020, 8, 189747-189760.	2.6	31
31	Dynamic economic emission dispatch with load demand management for the load demand of electric vehicles during crest shaving and valley filling in smart cities environment. Energy, 2020, 195, 116946.	4.5	29
32	Single-Phase Boost Switched-Capacitor-Based Multilevel Inverter Topology With Reduced Switching Devices. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4336-4346.	3.7	28
33	Dynamic Charging of Electric Vehicle with Negligible Power Transfer Fluctuation. Energies, 2017, 10, 701.	1.6	22
34	Solar chimney power plant and its correlation with ambient wind effect. Journal of Thermal Analysis and Calorimetry, 2020, 141, 649-668.	2.0	22
35	OzTug mobile robot for manufacturing transportation. , 2011, , .		21
36	Design and Implementation of a Hybrid Single T-Type Double H-Bridge Multilevel Inverter (STDH-MLI) Topology. Energies, 2019, 12, 1810.	1.6	21

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37	Adaptive Carrier-Based PDPWM Control for Modular Multilevel Converter With Fault-Tolerant Capability. IEEE Access, 2020, 8, 26739-26748.	2.6	19
38	Switchedâ€capacitorâ€based boost multilevel inverter topology with higher voltage gain. IET Power Electronics, 2020, 13, 3209-3212.	1.5	19
39	MSIM: A change detection framework for damage assessment in natural disasters. Expert Systems With Applications, 2018, 97, 372-383.	4.4	18
40	Design implications for adaptive augmented reality based interactive learning environment for improved concept comprehension in engineering paradigms. Interactive Learning Environments, 2022, 30, 589-607.	4.4	17
41	An Integrated Approach to Optimal Charging Scheduling of Electric Vehicles Integrated with Improved Medium-Voltage Network Reconfiguration for Power Loss Minimization. Sustainability, 2020, 12, 9211.	1.6	17
42	Urban Design and Walkability: Lessons Learnt from Iranian Traditional Cities. Sustainability, 2021, 13, 5731.	1.6	17
43	Identifying the sources of stress and rewards in a group of Australian apprentice jockeys. Qualitative Research in Sport, Exercise and Health, 2017, 9, 583-599.	3.3	16
44	Haptic guidance for microrobotic intracellular injection. , 2010, , .		15
45	Intuitive Haptic Control Surface for Mobile Robot Motion Control. , 2008, , .		14
46	Development of a new virtual reality test of cognition: assessing the test-retest reliability, convergent and ecological validity of CONVIRT. BMC Psychology, 2020, 8, 61.	0.9	14
47	A Framework Utilizing Augmented Reality to Enhance the Teachingâ€Learning Experience of Linear Control Systems. IETE Journal of Research, 2021, 67, 155-164.	1.8	14
48	Accurate Prediction of Hourly Energy Consumption in a Residential Building Based on the Occupancy Rate Using Machine Learning Approaches. Applied Sciences (Switzerland), 2021, 11, 2229.	1.3	14
49	System of systems approach to threat detection and integration of heterogeneous independently operable systems. , 2007, , .		13
50	Single phase symmetrical and asymmetrical design of multilevel inverter topology with reduced number of switches. , 2018, , .		13
51	Bilateral haptic teleoperation of an articulated track mobile robot. , 2007, , .		12
52	A Current Control Approach for an Abnormal Grid Supplied Ultra Sparse Z-Source Matrix Converter with a Particle Swarm Optimization Proportional-Integral Induction Motor Drive Controller. Energies, 2016, 9, 899.	1.6	12
53	Haptic microrobotic intracellular injection assistance using virtual fixtures. , 2010, , .		11
54	Grasping virtual objects with multi-point haptics. , 2011, , .		11

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55	Human Performance Measures for Interactive Haptic-Audio-Visual Interfaces. IEEE Transactions on Haptics, 2013, 6, 46-57.	1.8	11
56	Multipoint Haptic Mediator Interface for Robotic Teleoperation. IEEE Systems Journal, 2015, 9, 86-97.	2.9	11
57	Using particle swarm optimization for PID optimization for altitude control on a quadrotor. , 2017, , .		11
58	Increased Absorption with Al Nanoparticle at Front Surface of Thin Film Silicon Solar Cell. Energies, 2019, 12, 2602.	1.6	11
59	Asymmetrical Multilevel Inverter Topology with Reduced Number of Components. , 2018, , .		10
60	Role of immersive visualization tools in renewable energy system development. Renewable and Sustainable Energy Reviews, 2019, 115, 109363.	8.2	10
61	Solving the Real Power Limitations in the Dynamic Economic Dispatch of Large-Scale Thermal Power Units under the Effects of Valve-Point Loading and Ramp-Rate Limitations. Sustainability, 2021, 13, 1274.	1.6	9
62	Virtual Reality and Haptic Cardiopulmonary Resuscitation Training Approaches: A Review. IEEE Systems Journal, 2022, 16, 1391-1399.	2.9	9
63	Analysis and Design of Series-LC-Switch Capacitor Multistage High Gain DC-DC Boost Converter for Electric Vehicle Applications. Sustainability, 2022, 14, 4495.	1.6	9
64	Towards Haptic Microrobotic Intracellular Injection. , 2009, , .		8
65	Building a Relationship between Robot Characteristics and Teleoperation User Interfaces. Sensors, 2017, 17, 587.	2.1	8
66	Transient Faults in Wind Energy Conversion Systems: Analysis, Modelling Methodologies and Remedies. Energies, 2018, 11, 2249.	1.6	8
67	Verification of a bioclimatic modeling system in a growing suburb in Melbourne. Science of the Total Environment, 2019, 689, 883-898.	3.9	8
68	Design and Fabrication of Implants for Mandibular and Craniofacial Defects Using Different Medical-Additive Manufacturing Technologies: A Review. Annals of Biomedical Engineering, 2020, 48, 2285-2300.	1.3	8
69	Numerical simulation of the effect of chimney configuration on the performance of a solar chimney power plant. Journal of Thermal Analysis and Calorimetry, 2022, 147, 2549-2563.	2.0	8
70	Application of Emotional Design to the Form Redesign of a Midwifery Training Aid. KnE Engineering, 2017, 2, 44.	0.1	8
71	Near State Vector Selection-Based Model Predictive Control with Common Mode Voltage Mitigation for a Three-Phase Four-Leg Inverter. Energies, 2017, 10, 2129.	1.6	7
72	Evaluation of a new virtual reality micro-robotic cell injection training system. Computers and Electrical Engineering, 2018, 67, 656-671.	3.0	7

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73	Augmented Reality Visualization of Modal Analysis Using the Finite Element Method. Applied Sciences (Switzerland), 2021, 11, 1310.	1.3	7
74	Haptic Virtual Reality Training Environment for Micro-robotic Cell Injection. Lecture Notes in Electrical Engineering, 2015, , 245-249.	0.3	7
75	Switched-Capacitor Based Seven-Level Triple Voltage Gain Boost Inverter (7L-TVG-BI). , 2020, , .		7
76	Optimized Support Vector Regression-Based Model for Solar Power Generation Forecasting on the Basis of Online Weather Reports. IEEE Access, 2022, 10, 15594-15604.	2.6	7
77	A Haptically Enabled Low-Cost Reconnaissance Platform for Law Enforcement. , 2007, , .		6
78	Multi-point multi-hand haptic teleoperation of a mobile robot. , 2009, , .		6
79	IoT-Based System Health Management Infrastructure as a Service. , 2018, , .		6
80	Reduced professional efficacy is associated with a blunted salivary alpha-amylase awakening response. Physiology and Behavior, 2019, 199, 292-299.	1.0	6
81	Assessing the utility of a virtual-reality neuropsychological test battery, "CONVIRT"™, in detecting alcohol-induced cognitive impairment. Behavior Research Methods, 2020, 53, 1115-1123.	2.3	6
82	Overview and Exploitation of Haptic Tele-Weight Device in Virtual Shopping Stores. Sustainability, 2021, 13, 7253.	1.6	6
83	Gender moderates the association between chronic academic stress with top-down and bottom-up attention. Attention, Perception, and Psychophysics, 2022, 84, 383-395.	0.7	6
84	Clinical and Blood Biomarker Trajectories after Concussion: New Insights from a Longitudinal Pilot Study of Professional Flat-Track Jockeys. Journal of Neurotrauma, 2023, 40, 52-62.	1.7	6
85	OzBot™; -haptic augmentation of a teleoperated robotic platform for search and rescue operations. , 2007, , .		5
86	Enabling multi-point haptic grasping in virtual environments. , 2011, , .		5
87	Real-Time Lane Detection on Suburban Streets Using Visual Cue Integration. International Journal of Advanced Robotic Systems, 2014, 11, 61.	1.3	5
88	Multipoint Haptic Guidance for Micrograsping Systems. IEEE Systems Journal, 2015, 9, 1388-1395.	2.9	5
89	Kinect with ROS, interact with Oculus: Towards Dynamic User Interfaces for robotic teleoperation. , 2016, , .		5
90	Mixed Reality for Museum Experiences: A Co-Creative Tactile-immersive Virtual Coloring Serious Game. , 2018, , .		5

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91	Design of a Virtual Reality Training System for Micro-robotic Cell Injection. <i>Procedia Technology</i> , 2015, 20, 185-190.	1.1	4
92	Keyboard control method for virtual reality micro-robotic cell injection training. , 2015, , .		4
93	Large-scale Virtual Reality micro-robotic cell injection training. , 2016, , .		4
94	Real-world Data for Virtual Reality Experiences: Interpreting Excavations. , 2018, , .		4
95	Viable approaches for increasing the efficiency of buiding integrated photovoltaic systems. , 2015, , .		3
96	Towards large-scale haptic virtual reality training for micro-robotic cell injection. , 2016, , .		3
97	Haptic Technology for Micro-robotic Cell Injection Training Systemsâ€™A Review. <i>Intelligent Automation and Soft Computing</i> , 2016, 22, 509-523.	1.6	3
98	Distribution transformer load behavior, burden, and characteristics of residential consumers: A case study of Baghdad City. <i>Energy and Buildings</i> , 2020, 210, 109693.	3.1	3
99	Smooth and safe tram journeys: tram driver perspectives and opportunities using a haptic master controller in a virtual reality environment. <i>Ergonomics</i> , 2022, 65, 445-466.	1.1	3
100	Energy management for a gird connected hybrid renewable energy system. , 2017, , .		2
101	Feeling Your Way Around a CAVE-Like Reconfigurable VR System. , 2018, , .		2
102	Hector-VRÂ®: A Mixed-Reality Driving Simulator for Older Drivers. , 2019, , .		2
103	A Sustainable Distributed Building Integrated Photo-Voltaic System Architecture with a Single Radial Movement Optimization Based MPPT Controller. <i>Sustainability</i> , 2020, 12, 6687.	1.6	2
104	Low-Cost 5-DOF Haptic Stylus Interaction Using Two Phantom Omni Devices. <i>Lecture Notes in Computer Science</i> , 2014, , 139-149.	1.0	2
105	Troubleshooting as a method in COVID-19 times: smart home ethnographies and remote aged care innovation. <i>Digital Creativity</i> , 2022, 33, 188-203.	0.8	2
106	4 Degree-of-Freedom haptic device for surgical simulation. , 2014, , .		1
107	Design for Manufacture of a Low-Cost Haptic Degree-Of-Freedom. <i>International Journal of Electronics and Electrical Engineering</i> , 2014, , 85-89.	0.2	1
108	Searching Baxter's URDF robot joint and link tree for active serial chains. , 2015, , .		0

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109	Mixed reality tool for training on pressure immobilization treatment of snake bite envenomation. , 2018, , .		0
110	Addendum: Abubakar, U.; Mekhilef, S.; Mokhlis, H.; Seyedmahmoudian, M.; Horan, B.; Stojcevski, A.; Bassi, H.; Rawa, M.J.H. Transient Faults in Wind Energy Conversion Systems: Analysis, Modelling Methodologies and Remedies. Energies 2018, 11, 2249. Energies, 2019, 12, 286.	1.6	0
111	A Novel Approach for Residential Neighborhoodsâ€™ Electricity Demand in Iraq Distribution Power Grids. IEEE Access, 2021, 9, 16508-16521.	2.6	0
112	System of autonomous rovers and their applications. , 2008, , .		0
113	A study on small-scale municipal solid waste management practices and its impact on carbon emission and mitigation cost. International Journal of Smart Grid and Clean Energy, 2019, , 670-679.	0.4	0