

Yu-Huei Cheng

List of Publications by Year in descending order

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83
papers

1,069
citations

471371

17
h-index

454834

30
g-index

86
all docs

86
docs citations

86
times ranked

855
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a Bidirectional DC/DC Converter With Dual-Battery Energy Storage for Hybrid Electric Vehicle System. IEEE Transactions on Vehicular Technology, 2018, 67, 1036-1052.	3.9	106
2	Impact of the Real-Time Thermal Loading on the Bulk Electric System Reliability. IEEE Transactions on Reliability, 2017, 66, 1110-1119.	3.5	90
3	Prospects of Using the Dynamic Thermal Rating System for Reliable Electrical Networks: A Review. IEEE Access, 2018, 6, 26765-26778.	2.6	87
4	Combinational Polymorphisms of Seven CXCL12-Related Genes Are Protective against Breast Cancer in Taiwan. OMICS A Journal of Integrative Biology, 2009, 13, 165-172.	1.0	70
5	Specific primer design for the polymerase chain reaction. Biotechnology Letters, 2013, 35, 1541-1549.	1.1	54
6	SNP-RFLPing: restriction enzyme mining for SNPs in genomes. BMC Genomics, 2006, 7, 30.	1.2	43
7	SNP-RFLPing 2: an updated and integrated PCR-RFLP tool for SNP genotyping. BMC Bioinformatics, 2010, 11, 173.	1.2	38
8	Single nucleotide polymorphism barcoding to evaluate oral cancer risk using odds ratio-based genetic algorithms. Kaohsiung Journal of Medical Sciences, 2012, 28, 362-368.	0.8	34
9	Composite Reliability Evaluation of Load Demand Side Management and Dynamic Thermal Rating Systems. Energies, 2018, 11, 466.	1.6	34
10	Control Strategy Optimization for Parallel Hybrid Electric Vehicles Using a Memetic Algorithm. Energies, 2017, 10, 305.	1.6	32
11	Improving the Penetration of Wind Power with Dynamic Thermal Rating System, Static VAR Compensator and Multi-Objective Genetic Algorithm. Energies, 2018, 11, 815.	1.6	29
12	Prim-SNPing: a primer designer for cost-effective SNP genotyping. BioTechniques, 2009, 46, 421-431.	0.8	26
13	Novel generating protective single nucleotide polymorphism barcode for breast cancer using particle swarm optimization. Cancer Epidemiology, 2009, 33, 147-154.	0.8	24
14	Specific PCR product primer design using memetic algorithm. Biotechnology Progress, 2009, 25, 745-753.	1.3	22
15	Restriction enzyme mining for SNPs in genomes. Anticancer Research, 2008, 28, 2001-7.	0.5	21
16	Confronting two-pair primer design for enzyme-free SNP genotyping based on a genetic algorithm. BMC Bioinformatics, 2010, 11, 509.	1.2	18
17	V-MitoSNP: visualization of human mitochondrial SNPs. BMC Bioinformatics, 2006, 7, 379.	1.2	17
18	SNP-Flankplus: SNP ID-centric retrieval for SNP flanking sequences. Bioinformatics, 2008, 3, 147-149.	0.2	17

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19	Drug-SNPing: an integrated drug-based, protein interaction-based tagSNP-based pharmacogenomics platform for SNP genotyping. <i>Bioinformatics</i> , 2013, 29, 758-764.	1.8	16
20	Genetic algorithm with small population size for search feasible control parameters for parallel hybrid electric vehicles. <i>AIMS Energy</i> , 2017, 5, 930-943.	1.1	16
21	URPD: a specific product primer design tool. <i>BMC Research Notes</i> , 2012, 5, 306.	0.6	15
22	A Novel Teaching-Learning-Based Optimization for Improved Mutagenic Primer Design in Mismatch PCR-RFLP SNP Genotyping. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2016, 13, 86-98.	1.9	15
23	Effective Natural PCR-RFLP Primer Design for SNP Genotyping Using Teaching-Learning-Based Optimization With Elite Strategy. <i>IEEE Transactions on Nanobioscience</i> , 2016, 15, 657-665.	2.2	14
24	A High-Gain Reflex-Based Bidirectional DC Charger with Efficient Energy Recycling for Low-Voltage Battery Charging-Discharging Power Control. <i>Energies</i> , 2018, 11, 623.	1.6	14
25	Seq-SNPing: Multiple-Alignment Tool for SNP Discovery, SNP ID Identification, and RFLP Genotyping. <i>OMICS A Journal of Integrative Biology</i> , 2009, 13, 253-260.	1.0	13
26	Computational intelligence-based polymerase chain reaction primer selection based on a novel teaching-learning-based optimisation. <i>IET Nanobiotechnology</i> , 2014, 8, 238-246.	1.9	12
27	Memetic algorithm for fuel economy and low emissions parallel hybrid electric vehicles. , 2017, , .		12
28	Knowledge of and Competence in Artificial Intelligence: Perspectives of Vietnamese Digital-Native Students. <i>IEEE Access</i> , 2021, 9, 75751-75760.	2.6	12
29	A Development Architecture for the Intelligent Animal Care and Management System Based on the Internet of Things and Artificial Intelligence. , 2019, , .		11
30	Mutagenic Primer Design for Mismatch PCR-RFLP SNP Genotyping Using a Genetic Algorithm. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2012, 9, 837-845.	1.9	10
31	Cycles embedding in folded hypercubes with conditionally faulty vertices. <i>Discrete Applied Mathematics</i> , 2017, 220, 55-59.	0.5	10
32	Methylotyping: An improved and visualized COBRA software for epigenomic studies. <i>FEBS Letters</i> , 2010, 584, 739-744.	1.3	9
33	A reflex-charging based bidirectional DC charger for light electric vehicle and DC-microgrids. , 2017, , .		9
34	A New Combined Boost Converter with Improved Voltage Gain as a Battery-Powered Front-End Interface for Automotive Audio Amplifiers. <i>Energies</i> , 2017, 10, 1128.	1.6	9
35	Associate PCR-RFLP Assay Design With SNPs Based on Genetic Algorithm in Appropriate Parameters Estimation. <i>IEEE Transactions on Nanobioscience</i> , 2013, 12, 119-127.	2.2	8
36	Estimation of Teaching-Learning-Based Optimization Primer Design Using Regression Analysis for Different Melting Temperature Calculations. <i>IEEE Transactions on Nanobioscience</i> , 2015, 14, 3-12.	2.2	8

#	ARTICLE	IF	CITATIONS
37	Development of a modular single-phase grid-tie inverter system for fuel-cell power generation. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2018, 41, 112-123.	0.6	8
38	REHUNT: a reliable and open source package for restriction enzyme hunting. BMC Bioinformatics, 2018, 19, 178.	1.2	8
39	SNP ID-info: SNP ID Searching and Visualization Platform. OMICS A Journal of Integrative Biology, 2008, 12, 217-226.	1.0	5
40	SNP-SNP Interaction Using Gauss Chaotic Map Particle Swarm Optimization to Detect Susceptibility to Breast Cancer. , 2014, , .		5
41	Optimization of Control Strategy for Hybrid Electric Vehicles Based on Improved Genetic Algorithm. , 2017, , .		5
42	A Novel Chaotic Inertia Weight Particle Swarm Optimization for PCR Primer Design. , 2010, , .		4
43	LD2SNPIng: linkage disequilibrium plotter and RFLP enzyme mining for tag SNPs. BMC Genetics, 2009, 10, 26.	2.7	3
44	Genetic Algorithm for the Design of Confronting Two-Pair Primers. , 2009, , .		3
45	An isolated AC module for photovoltaic energy conversion. International Journal of Green Energy, 2016, 13, 1460-1466.	2.1	3
46	An efficient active ripple filter for use in single-phase DC-AC conversion system. , 2017, , .		3
47	Cycles in folded hypercubes with two adjacent faulty vertices. Theoretical Computer Science, 2019, 795, 115-118.	0.5	3
48	Combining partial transmit sequences and selective mapping to reduce computational complexity of selective mapping techniques. Transactions on Emerging Telecommunications Technologies, 2020, 31, e4093.	2.6	3
49	Single Nucleotide Polymorphisms Polymerase Chain Reaction-Restriction Fragment Length Polymorphism Primer Design Using Genetic Algorithm with Fixed and Adaptive Stopping Criteria. Journal of Advanced Mathematics and Applications, 2013, 2, 172-181.	0.5	3
50	Composite reliability evaluation for transmission network planning. AIMS Energy, 2018, 6, 170-186.	1.1	3
51	Multiobjective optimization-driven primer design mechanism: towards user-specified parameters of PCR primer. Briefings in Bioinformatics, 2022, 23, .	3.2	3
52	Improved Candidate Drug Mining for Alzheimer's Disease. BioMed Research International, 2014, 2014, 1-8.	0.9	2
53	PCR-CTPP Design for Enzyme-Free SNP Genotyping Using Memetic Algorithm. IEEE Transactions on Nanobioscience, 2015, 14, 13-23.	2.2	2
54	Application of Particle Swarm Optimization to Design Control Strategy Parameters of Parallel Hybrid Electric Vehicle with Fuel Economy and Low Emission. , 2018, , .		2

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55	Hamiltonian Cycle in Folded Hypercubes With Highly Conditional Edge Faults. IEEE Access, 2020, 8, 80908-80913.	2.6	2
56	Fault-free cycles embedding in folded hypercubes with F4. Theoretical Computer Science, 2020, 820, 85-90.	0.5	2
57	Every edge lies on cycles of folded hypercubes with a pair of faulty adjacent vertices. Discrete Applied Mathematics, 2021, 294, 1-9.	0.5	2
58	AN INTELLIGENT CHINESE PHONETIC ON-SCREEN VIRTUAL KEYBOARD SYSTEM. Biomedical Engineering - Applications, Basis and Communications, 2006, 18, 178-184.	0.3	1
59	A MIXED METHOD FOR PROVIDING EXACT SNP IDs FROM SEQUENCES. Biomedical Engineering - Applications, Basis and Communications, 2007, 19, 251-257.	0.3	1
60	Primer design with specific PCR product size using Memetic algorithm. , 2008, , .		1
61	Fuzzy adaptive particle swarm optimization for a specific primer design problem. , 2009, , .		1
62	Dynamic Programming for Single Nucleotide Polymorphism ID Identification in Systematic Association Studies. Kaohsiung Journal of Medical Sciences, 2009, 25, 165-176.	0.8	1
63	Estimation of the Influence for Different Population Sizes in MA-Based Natural SNP-RFLP Primer Design. , 2012, , .		1
64	A Low-Complexity Genetic Algorithm for Joint Antenna Selection and Power Allocation in Hybrid STBC-SM MIMO Systems. Wireless Personal Communications, 2016, 88, 305-318.	1.8	1
65	Maximization of wind energy utilization through a multi-objective optimization framework. , 2017, , .		1
66	Comparison of the adaptive inertia weight PSOs based on chaotic logistic map and tent map. , 2017, , .		1
67	Impact of Demand Side Management and Dynamic Thermal Rating System on the Reliability of Power Systems. , 2018, , .		1
68	Evolutionary Computation-Based Memetic Algorithm Against Genetic Algorithm to Improve PCR-RFLP Assay Primers of SNP Genotyping. IEEE Access, 2018, 6, 77807-77815.	2.6	1
69	Fuzzy Evaluation of Transmission Line End-of-Life Reliability Model. , 2019, , .		1
70	An Introduction to Mitochondrial Informatics. Methods in Molecular Biology, 2010, 628, 259-274.	0.4	1
71	Are we Ready to be e-Social Service Practitioners for Older Adults? Potential of Taiwanese Social Service College Students. IEEE Access, 2022, 10, 52451-52461.	2.6	1
72	Music Genre Classification Based on Visualized Spectrogram. , 2021, , .		1

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73	PCR-CTPP primer design using chaotic inertia weight particle swarm optimization. , 2010, , .		0
74	A mismatch PCR-RFLP primer design for SNP genotyping using genetic algorithm. , 2010, , .		0
75	Apply genetic algorithm with an adaptive stopping criterion to PCR-RFLP Primer Design. , 2012, , .		0
76	An integrated two-input three-output DC/DC boost converter with fuel-cell/battery energy resources for HEV and DC-distribution system. , 2016, , .		0
77	A framework for transmission network planning. , 2017, , .		0
78	A Bidirectional Converter with Hybrid Energy Sources for Light Electric Vehicle (LEV). , 2018, , .		0
79	PSO Algorithm for Primer Design. Lecture Notes in Electrical Engineering, 2008, , 175-187.	0.3	0
80	An Integrated Approach Providing Exact SNP IDs from Sequences. Lecture Notes in Electrical Engineering, 2008, , 221-231.	0.3	0
81	SNP-Flankplus: SNP ID-Centric Retrieval of Flanking Sequences. Studies in Computational Intelligence, 2009, , 13-18.	0.7	0
82	A Combined Bisulfite Restriction Analysis Bioinformatics Tool: Methyl-Typing. Methods in Molecular Biology, 2011, 791, 73-88.	0.4	0
83	Analyze influence factors in customer's insurance transaction by decision tree model. , 2021, , .		0