Green Cloud Computing: Balancing Energy in Processin

Proceedings of the IEEE
99, 149-167
DOI: 10.1109/jproc.2010.2060451

Citation Report

#	Article	IF	Citations
1	An overview of energy efficiency analytical models in communication networks. , 2010, , .		6
2	An Optimal Hysteretic Control Policy for Energy Saving in Cloud Computing. , 2011, , .		4
3	Energy-aware application scheduling based on genetic algorithm. , 2011, , .		1
4	Energy-efficient overlay for data transfers in private networks. , 2011, , .		1
5	Energy-efficient Multi-task Scheduling Based on MapReduce for Cloud Computing. , 2011, , .		9
6	Energy-Efficient Cloud Services over Wavelength-Routed Optical Transport Networks. , 2011, , .		23
7	Green Power Management with Dynamic Resource Allocation for Cloud Virtual Machines. , 2011, , .		17
8	Energy-aware hierarchical scheduling of applications in large scale data centers. , 2011, , .		20
9	8.6.1 Energy Conservation in Cloud Infrastructures. Incose International Symposium, 2011, 21, 1060-1064.	0.2	0
10	Green Optical Communicationsâ€"Part II: Energy Limitations in Networks. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 261-274.	1.9	179
11	Hybrid networks: lessons learned and future challenges based on ESnet4 experience. , 2011, 49, 114-121.		33
12	Content, connectivity, and cloud: ingredients for the network of the future. , 2011, 49, 62-70.		97
13	Improving Energy Efficiency of Video on Demand Services. Journal of Optical Communications and Networking, 2011, 3, 870.	3.3	18
14	Electrical cost savings and clean energy usage potential for HPC workloads. , 2011, , .		8
15	Energy conservation in cloud infrastructures. , 2011, , .		13
16	On-Line Real-Time Service Allocation and Scheduling for Distributed Data Centers. , 2011, , .		14
17	Energy-cost-aware scheduling of HPC workloads. , 2011, , .		14
18	A Taxonomy and Survey of Energy-Efficient Data Centers and Cloud Computing Systems. Advances in Computers, 2011, 82, 47-111.	1.2	529

#	Article	IF	Citations
19	Energy analysis of security for cloud application. , 2011, , .		4
20	Energy-Efficient Multi-Job Scheduling Model for Cloud Computing and Its Genetic Algorithm. Mathematical Problems in Engineering, 2012, 2012, 1-16.	0.6	27
21	Signposts. Computer Communication Review, 2012, 42, 83-84.	1.5	0
22	An Energy and Data Locality Aware Bi-level Multiobjective Task Scheduling Model Based on MapReduce for Cloud Computing. , 2012, , .		13
23	Signposts. , 2012, , .		1
24	The impact of time of use (ToU)-awareness in energy and opex performance of a cloud backbone. , 2012, , .		11
25	Benefits of green energy and proportionality in high speed wide area networks connecting data centers. , 2012, , .		13
26	Aggregating Bills and Invoices on Cloud for Anytime Anywhere Access: A Sustainable System. , 2012, , .		1
27	Energy benefit of distributed in-network processing for personalized media service delivery. , 2012, , .		2
28	Optimal Reconfiguration of the Cloud Network for Maximum Energy Savings. , 2012, , .		22
29	A digital ecosystem view on cloud computing. , 2012, , .		6
31	Energy efficient delivery of immersive video centric services. , 2012, , .		13
32	How digital information services can reduce greenhouse gas emissions. Online Information Review, 2012, 36, 489-506.	2.2	30
33	Prototyping Efficient Desktop-as-a-Service for FPGA Based Cloud Computing Architecture. , 2012, , .		14
34	An energy consumption model and analysis tool for Cloud computing environments. , 2012, , .		31
35	A Cloud Repository and Discovery Framework Based on a Unified Business and Cloud Service Ontology. , 2012, , .		37
36	A power efficient persistent storage consolidation algorithm for cloud computing. , 2012, , .		0
37	Cloud-based negotiation for sustainable enterprise interoperability. , 2012, , .		4

#	Article	IF	Citations
38	A cloud computing based platform for sharing healthcare research information. , 2012, , .		3
39	Cross layer solution towards green hybrid optical wireless access network utilizing energy efficient of routing and modulation format. , 2012, , .		0
40	Potential CO<inf>2</inf> mitigation in digital ecosystems. , 2012, , .		1
41	Misconfiguration detection for cloud datacenters using decision tree analysis. , 2012, , .		10
42	Applications of Provenance Data for Cloud Infrastructure. , 2012, , .		8
43	Data management for the Internet of Things: Green directions. , 2012, , .		29
44	Cloud computing for future generation of computing technology. , 2012, , .		15
45	Pricing and peak aware scheduling algorithm for cloud computing. , 2012, , .		5
46	Storage and Query of Condition Monitoring Data in Smart Grid Based on Hadoop. , 2012, , .		5
47	An intelligent cloud-based energy management system using machine to machine communications in future energy environments. , 2012, , .		4
48	A simplified energy consumption model for fiber-based Next Generation Access Networks. Telematics and Informatics, 2012, 29, 375-386.	3.5	5
49	Discussion on the Challenges and Opportunities of Cloud Forensics. Lecture Notes in Computer Science, 2012, , 593-608.	1.0	12
50	The Current State of Understanding of the Energy Efficiency of Cloud Computing. , 2012, , .		13
51	Energy-as-a-Service (EaaS): On the Efficacy of Multimedia Cloud Computing to Save Smartphone Energy. , 2012, , .		33
52	An Energy-Aware VMs Placement Algorithm in Cloud Computing Environment. , 2012, , .		18
53	Task and Server Assignment for Reduction of Energy Consumption in Datacenters. , 2012, , .		14
54	Experimental evaluation of energy savings of virtual machines in the implementation of cloud computing. , 2012, , .		3
55	An agenda for green information retrieval research. Information Processing and Management, 2012, 48, 1067-1077.	5.4	32

#	Article	IF	Citations
56	A survey of research on greening data centers. , 2012, , .		40
57	Performance analysis framework to optimize storage infrastructure for Cloud Computing. , 2012, , .		2
58	Cloud enhanced smart home technologies. , 2012, , .		3
59	Low-carbon routing algorithms for cloud computing services in IP-over-WDM networks. , 2012, , .		28
60	Designing an Energy-Efficient Cloud Network [Invited]. Journal of Optical Communications and Networking, 2012, 4, B101.	3.3	29
61	Overcoming the energy versus delay trade-off in cloud network reconfiguration. , 2012, , .		7
62	Application-Aware Virtual Machine Placement in Data Centers. , 2012, , .		9
63	Design of an Adaptive Framework for Utility-Based Optimization of Scientific Applications in the Cloud. , 2012, , .		8
64	Distributed media-aware flow scheduling in cloud computing environment. Computer Communications, 2012, 35, 1819-1827.	3.1	24
65	Inter-and-intra data center VM-placement for energy-efficient large-Scale cloud systems. , 2012, , .		31
66	Integrated Green Cloud Computing Architecture. , 2012, , .		14
67	Green cloud VM migration: Power use analysis. , 2012, , .		12
68	Building environmentally sustainable information services: A green is research agenda. Journal of the Association for Information Science and Technology, 2012, 63, 633-647.	2.6	50
69	Optical Networks for Grid and Cloud Computing Applications. Proceedings of the IEEE, 2012, 100, 1149-1167.	16.4	141
70	Energy Challenges in Current and Future Optical Transmission Networks. Proceedings of the IEEE, 2012, 100, 1168-1187.	16.4	33
71	A Survey of Green Mobile Networks: Opportunities and Challenges. Mobile Networks and Applications, 2012, 17, 4-20.	2.2	265
72	A joint communication and computing resource management scheme for pervasive grid networks. Wireless Communications and Mobile Computing, 2013, 13, 1309-1323.	0.8	2
73	Mobile Cloud Computing Research - Issues, Challenges and Needs. , 2013, , .		24

#	Article	IF	Citations
74	Semantic multimedia remote display for mobile thin clients. Multimedia Systems, 2013, 19, 455-474.	3.0	7
75	A Fault Tolerant Strategy in Hybrid Cloud Based on QPN Performance Model. , 2013, , .		5
76	Energy Efficient Cloud Storage Service: Key Issues and Challenges. , 2013, , .		18
77	Sustainable interoperability on space mission feasibility studies. Computers in Industry, 2013, 64, 925-937.	5.7	8
78	Stratus: Load Balancing the Cloud for Carbon Emissions Control. IEEE Transactions on Cloud Computing, 2013, 1, 1-1.	3.1	63
79	Management Infrastructures for Power-Efficient Cloud Computing Architectures. Computer Communications and Networks, 2013, , 133-152.	0.8	2
80	A survey on energy and power consumption models for Greener Cloud. , 2013, , .		34
81	Implementation of Cloud computing technology for the improvement of entire healthcare services in India. , 2013, , .		7
82	A decision framework for placement of applications in clouds that minimizes their carbon footprint. Journal of Cloud Computing: Advances, Systems and Applications, 2013, 2, 21.	2.1	4
83	Service selection in web service compositions optimizing energy consumption and service response time. Journal of Internet Services and Applications, 2013, 4, 19.	1.6	22
84	Cloud Resource Management and Scheduling. , 2013, , 163-203.		2
85	Vertical and horizontal circuit/packet integration techniques for the future optical internet. IEEE Network, 2013, 27, 52-58.	4.9	8
86	Energy aware cloud service provisioning approach for green computing environment. , 2013, , .		19
87	Data Blocks' Signature in Cloud Computing. , 2013, , .		3
88	Energy Efficient and CO2 Aware Cloud Computing: Requirements and Case Study. , 2013, , .		3
89	Energy efficient cloud content delivery in core networks. , 2013, , .		5
90	Sourcing Strategies for Energy-Efficient Virtual Organisations in Cloud Computing. , 2013, , .		3
91	Experimental analysis of task-based energy consumption in cloud computing systems. , 2013, , .		38

#	Article	IF	Citations
92	An Algorithm to Optimize Electrical Flows. , 2013, , .		1
93	Optimizing Multi-join in Cloud Environment. , 2013, , .		2
94	Energy aware Virtual Machine Allocation Algorithm in Cloud network. , 2013, , .		2
95	An Algorithm for Cost-Effectively Storing Scientific Datasets with Multiple Service Providers in the Cloud. , 2013, , .		11
96	Green cloud architecture for African local collectivities. , 2013, , .		1
97	Implementation of a Power Saving Method for Virtual Machine Management in Cloud. , 2013, , .		5
98	A Green Software Development Life Cycle for Cloud Computing. IT Professional, 2013, 15, 28-34.	1.4	33
99	Decreasing power consumption with energy efficient data aware strategies. Future Generation Computer Systems, 2013, 29, 1152-1163.	4.9	20
100	Energy-efficient networking for content distribution over telecom network infrastructure. Optical Switching and Networking, 2013, 10, 393-405.	1.2	15
101	Dynamic Integration of Mobile JXTA with Cloud Computing for Emergency Rural Public Health Care. Osong Public Health and Research Perspectives, 2013, 4, 255-264.	0.7	15
102	Hybrid Clouds brokering: Business opportunities, QoS and energy-saving issues. Simulation Modelling Practice and Theory, 2013, 39, 121-134.	2.2	29
103	Energy-Efficient Cloud Computing: A Green Migration of Traditional IT. , 2013, , 295-330.		10
104	Toward a reliable, secure and fault tolerant smart grid state estimation in the cloud. , 2013, , .		32
105	Impact of Office Productivity Cloud Computing on Energy Consumption and Greenhouse Gas Emissions. Environmental Science & Technology, 2013, 47, 4333-4340.	4.6	12
106	Smart power grid and cloud computing. Renewable and Sustainable Energy Reviews, 2013, 24, 566-577.	8.2	225
107	Social, Economic and Political Aspects of the Cloud. Computer Communications and Networks, 2013, , 43-61.	0.8	0
108	Toward Blind Scheduling in Mobile Media Cloud: Fairness, Simplicity, and Asymptotic Optimality. IEEE Transactions on Multimedia, 2013, 15, 735-746.	5.2	42
109	A survey of mathematical models, simulation approaches and testbeds used for research in cloud computing. Simulation Modelling Practice and Theory, 2013, 39, 92-103.	2.2	84

#	Article	IF	Citations
111	Priori information and sliding window based prediction algorithm for energy-efficient storage systems in cloud. Simulation Modelling Practice and Theory, 2013, 39, 3-19.	2.2	4
112	Smart Grid Environment with Effective Storage and Computational Facilities. Lecture Notes in Electrical Engineering, 2013, , 1-7.	0.3	1
113	Energy-Efficient Scheduling Algorithms for Data Center Resources in Cloud Computing. , 2013, , .		25
114	Assessing Green Strategies in Peer-to-Peer Opportunistic Grids. Journal of Grid Computing, 2013, 11, 129-148.	2.5	11
115	Task Scheduling and Server Provisioning for Energy-Efficient Cloud-Computing Data Centers. , 2013, , .		28
116	Greening the cloud using renewable-energy-aware service migration. IEEE Network, 2013, 27, 36-43.	4.9	62
117	Modeling and experimenting combined smart sleep and power scaling algorithms in energy-aware data center networks. Simulation Modelling Practice and Theory, 2013, 39, 20-40.	2.2	25
118	Energy consumption of interactive cloud-based document processing applications. , 2013, , .		14
119	Economizing the operational costs of cloud services in an optical transport network. , 2013, , .		2
120	Connecting the clouds with low-latency, low-cost virtual private lines enabled by sliceable optical networks. , 2013, , .		0
121	Energy Efficient Cloud Computing Environment via Autonomic Meta-director Framework. , 2013, , .		23
122	Proposal for an optimal job allocation method for data-intensive applications based on multiple costs balancing in a hybrid cloud environment. , 2013, , .		3
123	Energy Tree Dynamics of Smart Grid Based on Industrial Internet of Things. International Journal of Distributed Sensor Networks, 2013, 9, 583846.	1.3	7
124	Virtual network planning for converged optical and data centers: ideas and challenges. IEEE Network, 2013, 27, 52-58.	4.9	19
125	94% Performance improvement by time-shift control (TSC) technique in cloud computing voltage regulator module (VRM). , 2013, , .		0
126	On Energy Efficiency Data Access and Backup for Cloud Computing Networks. , 2013, , .		2
127	Statistics based energy efficient caching decisions for IPTV services. , 2013, , .		2
128	Modelling resource estimation and scheduling for processing in cloud computing. , 2013, , .		2

#	Article	IF	Citations
129	Leveraging Social Network APIs for Enhancing Smartphone Apps: An Example of VoIP App. , 2013, , .		1
130	Network-coded caching-aided multicast for efficient content delivery. , 2013, , .		41
131	Electrical energy aware parallel computing with MPI and CUDA. , 2013, , .		0
132	An Energy-Saving Virtual-Machine Scheduling Algorithm of Cloud Computing System. , 2013, , .		4
133	Network Energy Efficiency in the Data Center. , 2013, , .		1
134	Optimal Green Virtual Machine Migration Model. International Journal of Business Data Communications and Networking, 2013, 9, 35-52.	1.2	5
135	Incentives to Apply Green Cloud Computing. Journal of Theoretical and Applied Electronic Commerce Research, 2013, 8, 11-12.	3.1	6
136	Requirements Prioritization and Design Considerations for the Next Generation of Corporate Environmental Management Information Systems. International Journal of Information Technologies and Systems Approach, 2013, 6, 98-116.	0.8	4
137	A distributed framework for energy-efficient lightpaths in computational grids. Journal of High Speed Networks, 2013, 19, 1-18.	0.6	3
138	Digital libraries and open access. , 0, , 143-154.		0
139	Does the Performance Scale the Same as the Cost in the Cloud. , 2013, , .		0
140	Green and FairWorkload Distribution in Geographically Distributed Datacenters. Journal of Green Engineering (discontinued), 2014, 4, 69-98.	0.7	5
141	Techniques for Auditing the ICT Carbon Footprint of an Organisation. International Journal of Green Computing, 2014, 5, 44-61.	0.6	6
142	Addressing Sustainability in IT-Governance Frameworks. International Journal of Human Capital and Information Technology Professionals, 2014, 5, 79-87.	0.5	6
143	The concept of green Cloud infrastructure based on distributed computing and hardware accelerator within FPGA as a Service. , 2014, , .		10
144	A Hybrid Optimization Model for Green Cloud Computing. , 2014, , .		14
145	Cloud Computing: Adoption Considerations for Business and Education. , 2014, , .		23
146	Network and Energy-Aware Resource Selection Model for Opportunistic Grids. , 2014, , .		1

#	Article	IF	Citations
147	Model-based platform design and evaluation of cloud-based cyber-physical systems (CCPS). , 2014, , .		3
148	Cost-Benefit Analysis of Datacenter Consolidation Using Virtualization. IT Professional, 2014, 16, 54-62.	1.4	6
149	An Information-Theoretic View of Cloud Workloads. , 2014, , .		4
150	A Task Scheduling Strategy Based on Weighted Round-Robin for Distributed Crawler. , 2014, , .		9
151	A Survey on Energy Efficiency in Information Systems. International Journal of Cooperative Information Systems, 2014, 23, 1450001.	0.6	15
152	Smart charging of electric vehicles â€“ integration of energy and information. IET Electrical Systems in Transportation, 2014, 4, 89-96.	1.5	24
153	Profiling-Based Task Scheduling for Factory-Worker Applications in Infrastructure-as-a-Service Clouds. , 2014, , .		2
154	A Cost Modelling System for Cloud Computing. , 2014, , .		4
155	The Research of Energy Consumption Control of Tobacco Information Based on Cloud Computing. Advanced Materials Research, 0, 915-916, 1393-1396.	0.3	0
156	Research on MAMSK and OOFDM Technology in Optical Fiber Communication System. Advanced Materials Research, 2014, 926-930, 2034-2037.	0.3	0
157	A tunable proof of ownership scheme for deduplication using Bloom filters. , 2014, , .		32
158	Storage cost minimizing in cloud — A proposed novel approach based on multiple key cryptography. , 2014, , .		2
159	An optimization framework for data centers to minimize electric bill under day-ahead dynamic energy prices while providing regulation services. , 2014, , .		12
160	Profit Optimization in SLA-Aware Cloud Services with a Finite Capacity Queuing Model. Mathematical Problems in Engineering, 2014, 2014, 1-11.	0.6	23
161	GreenMACC: An architecture to green metascheduling with quality of service in private clouds. , 2014, , .		2
162	Cloud computing: a collaborative green platform for the knowledge society. VINE: the Journal of Information and Knowledge Management Systems, 2014, 44, 357-374.	1.0	13
163	Global shifting of data centers demand. , 2014, , .		3
164	An Overview of Application Traffic Management Approaches: Challenges and Potential Extensions. , 2014, , .		1

#	Article	IF	Citations
165	Fitting green anycast strategies to cloud services in WDM hybrid power networks. , 2014, , .		7
166	Networking-computing resource allocation for hard real-time Green Cloud applications. , 2014, , .		5
167	Energy-Aware Load Balancing Policies for the Cloud Ecosystem. , 2014, , .		8
168	Security of Applications Involving Multiple Organizations and Order Preserving Encryption in Hybrid Cloud Environments. , 2014, , .		10
169	Green latency-aware data deployment in data centers. , 2014, , .		1
170	On the impact of backhaul network on distributed cloud computing. , 2014, , .		28
171	Energy Consumption of Content Distribution from Nano Data Centers versus Centralized Data Centers. Performance Evaluation Review, 2014, 42, 49-54.	0.4	7
172	Characterizing energy consumption of IaaS clouds in non-saturated operation. , 2014, , .		5
173	Dynamic Virtual Machine migration algorithms using enhanced energy consumption model for green cloud data centers. , 2014, , .		41
174	BitTorrent Content Distribution in Optical Networks. Journal of Lightwave Technology, 2014, 32, 4209-4225.	2.7	71
175	Energy Consumption of Photo Sharing in Online Social Networks. , 2014, , .		18
176	Energy Efficiency Dilemma: P2P-cloud vs. Datacenter. , 2014, , .		14
177	Energy-aware resource selection on opportunistic grids. , 2014, , .		1
178	Green cloud architecture: Low power routers for an energy-aware data transport. , 2014, , .		2
179	Load Balancing for Future Internet: An Approach Based on Game Theory. Journal of Applied Mathematics, 2014, 2014, 1-11.	0.4	15
180	An adaptive framework for utility-based optimization of scientific applications in the cloud. Journal of Cloud Computing: Advances, Systems and Applications, 2014, 3, 4.	2.1	11
181	A Generic and Extensible Framework for Monitoring Energy Consumption of OpenStack Clouds. , 2014, , .		25
182	The new method to save energy for Openflow Switch based on traffic engineering. , 2014, , .		2

#	Article	IF	Citations
183	Malware analysis performance enhancement using cloud computing. Journal of Computer Virology and Hacking Techniques, 2014, 10, 1-10.	1.6	10
184	Low-Emissions Routing for Cloud Computing in IP-over-WDM Networks with Data Centers. IEEE Journal on Selected Areas in Communications, 2014, 32, 28-38.	9.7	25
185	Trends in big data analytics. Journal of Parallel and Distributed Computing, 2014, 74, 2561-2573.	2.7	604
186	An Optimization-Based Scheme for Efficient Virtual Machine Placement. International Journal of Parallel Programming, 2014, 42, 853-872.	1.1	50
187	Mobile ad hoc networking: milestones, challenges, and new research directions. , 2014, 52, 85-96.		347
188	Distributed Energy Efficient Clouds Over Core Networks. Journal of Lightwave Technology, 2014, 32, 1261-1281.	2.7	113
189	Greening the Service Selection in Cloud Computing: The Case of Federated ERP Solutions. , 2014, , .		0
190	Adopting Hybrid CDNâ€“P2P in IP-Over-WDM Networks: An Energy-Efficiency Perspective. Journal of Optical Communications and Networking, 2014, 6, 303.	3.3	12
191	A taxonomy and survey on Green Data Center Networks. Future Generation Computer Systems, 2014, 36, 189-208.	4.9	155
192	Electric Demand Response Management for Distributed Large-Scale Internet Data Centers. IEEE Transactions on Smart Grid, 2014, 5, 651-661.	6.2	62
193	Data Center Energy Efficiency:Improving Energy Efficiency in Data Centers Beyond Technology Scaling. IEEE Design and Test, 2014, 31, 93-104.	1.1	27
194	The Internet of Things vision: Key features, applications and open issues. Computer Communications, 2014, 54, 1-31.	3.1	1,112
195	On thin-clients and the cloud; can smartphones and tablets really reduce electricity consumption?. , 2014, , .		1
196	Caching and optimized request routing in cloud-based content delivery systems. Performance Evaluation, 2014, 79, 38-55.	0.9	18
197	Load balancing techniques: Major challenge in Cloud Computing - a systematic review. , 2014, , .		16
198	Electrified Vehicles and the Smart Grid: The ITS Perspective. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1388-1404.	4.7	117
199	Storage to energy: Modeling the carbon emission of storage task offloading between data centers. , 2014, , .		3
200	A virtual data center deployment model based on the green cloud computing. , 2014, , .		10

#	Article	IF	Citations
201	A method for managing green power of a virtual machine cluster in cloud. Future Generation Computer Systems, 2014, 37, 26-36.	4.9	38
202	An optimal control policy to realize green cloud systems with SLA-awareness. Journal of Supercomputing, 2014, 69, 1284-1310.	2.4	16
203	The greenhouse gas abatement potential of enterprise cloud computing. Environmental Modelling and Software, 2014, 56, 6-12.	1.9	10
204	Assessing Internet energy intensity: A review of methods and results. Environmental Impact Assessment Review, 2014, 45, 63-68.	4.4	74
205	Secure and synchronised mobile JXTA cloud ecosystem for sharing patient's healthcare information and medical reports. International Journal of Computers in Healthcare, 2014, 2, 15.	0.5	2
206	Adaptive Energy-Efficient QoS-Aware Scheduling Algorithm for TCP/IP Mobile Cloud. , 2015, , .		14
207	Cost-efficient live VM migration based on varying electricity cost in optical cloud networks. Photonic Network Communications, 2015, 30, 376-386.	1.4	12
208	A study on energy efficient cloud computing. , 2015, , .		3
209	Peak-cut control of smart energy BTS: Power control technology for reducing the power consumed by base stations. , 2015, , .		0
210	Towards Cloud-based Asynchronous Elasticity for Iterative HPC Applications. Journal of Physics: Conference Series, 2015, 649, 012006.	0.3	3
211	A Comparative Analysis of Task Scheduling Algorithms of Virtual Machines in Cloud Environment. Journal of Computer Science, 2015, 11, 804-812.	0.5	8
213	On Global Electricity Usage of Communication Technology: Trends to 2030. Challenges, 2015, 6, 117-157.	0.9	685
214	A Novel Cost Based Model for Energy Consumption in Cloud Computing. Scientific World Journal, The, 2015, 2015, 1-10.	0.8	7
215	A Correlated Model for Evaluating Performance and Energy of Cloud System Given System Reliability. Discrete Dynamics in Nature and Society, 2015, 2015, 1-10.	0.5	1
216	Multicriteria Resource Brokering in Cloud Computing for Streaming Service. Mathematical Problems in Engineering, 2015, 2015, 1-15.	0.6	0
217	A secure three-party authenticated key exchange protocol based on extended chaotic maps in cloud storage service. , 2015, , .		7
218	Energy-Efficient Networking Solutions in Cloud-Based Environments. ACM Computing Surveys, 2015, 47, 1-32.	16.1	26
219	Towards a holistic brokerage system for multi-cloud environment. , 2015, , .		2

#	Article	IF	Citations
220	Evaluating a cloud federation ecosystem to reduce carbon footprint by moving computational resources. , 2015, , .		8
221	Cloud elasticity for HPC applications: Observing energy, performance and cost. , 2015, , .		0
222	Energy efficient mechanism for Green computing in wireless storage area networks. , 2015, , .		1
223	Governing cloud computing services: Reconsideration of IT governance structures. International Journal of Accounting Information Systems, 2015, 19, 45-58.	2.6	27
224	Performance analysis of C/U split hybrid satellite terrestrial network for 5G systems. , 2015, , .		11
225	GRaNADA: A Network-Aware and Energy-Efficient PaaS Cloud Architecture. , 2015, , .		6
226	Virtual machine placement method for energy saving in cloud computing. , 2015, , .		2
227	Collaborative cloud computing adoption in Australian regional municipal government: An exploratory study. , 2015, , .		22
228	Energy Saving Mechanism Analysis Based on Dynamic Resource Scaling for Cloud Computing. Lecture Notes in Computer Science, 2015, , 293-301.	1.0	0
229	Cluster based load balancing in cloud computing. , 2015, , .		33
230	Energy aware anycast routing in optical networks for cloud computing applications. , 2015, , .		2
231	Access control research on data security in Cloud computing. , 2015, , .		1
232	A Strategy for Server Management to Improve Cloud Service QoS. , 2015, , .		9
233	Energy Cost Models of Smartphones for Task Offloading to the Cloud. IEEE Transactions on Emerging Topics in Computing, 2015, 3, 384-398.	3.2	59
234	Energy Consumption Comparison of Interactive Cloud-Based and Local Applications. IEEE Journal on Selected Areas in Communications, 2015, 33, 616-626.	9.7	23
235	Design of energyâ€efficient cloud systems via network and resource virtualization. International Journal of Network Management, 2015, 25, 75-94.	1.4	10
236	Cloud Computing Resource Scheduling and a Survey of Its Evolutionary Approaches. ACM Computing Surveys, 2015, 47, 1-33.	16.1	366
237	Evaluating power efficient algorithms for efficiency and carbon emissions in cloud data centers: A review. Renewable and Sustainable Energy Reviews, 2015, 51, 1553-1563.	8.2	38

#	Article	IF	Citations
238	GreeDi: An energy efficient routing algorithm for big data on cloud. Ad Hoc Networks, 2015, 35, 83-96.	3.4	94
239	Resource management and control in converged optical data center networks: Survey and enabling technologies. Computer Networks, 2015, 88, 121-135.	3.2	10
240	Third generation of the Web: libraries, librarians and Web 3.0. Library Hi Tech News, 2015, 32, 6-8.	0.5	12
241	Stochastic Modeling and Performance Analysis of Migration-Enabled and Error-Prone Clouds. IEEE Transactions on Industrial Informatics, 2015, 11, 495-504.	7.2	57
242	Re-Stream: Real-time and energy-efficient resource scheduling in big data stream computing environments. Information Sciences, 2015, 319, 92-112.	4.0	80
243	Energy consumption modelling of optical networks. Photonic Network Communications, 2015, 30, 4-16.	1.4	15
244	Greedy scheduling of tasks with time constraints for energy-efficient cloud-computing data centers. Journal of Cloud Computing: Advances, Systems and Applications, 2015, 4, .	2.1	59
245	Schemes for Fast Transmission of Flows in Data Center Networks. IEEE Communications Surveys and Tutorials, 2015, 17, 1391-1422.	24.8	39
246	Cloud Computing Software and Solutions for Libraries: A Comparative Study. Journal of Electronic Resources in Medical Libraries, 2015, 12, 25-41.	0.2	10
247	Energy Efficient Dynamic Content Distribution. IEEE Journal on Selected Areas in Communications, 2015, 33, 2826-2836.	9.7	18
248	Towards energy management in Cloud federation: A survey in the perspective of future sustainable and cost-saving strategies. Computer Networks, 2015, 91, 438-452.	3.2	36
249	Renewable energy in distributed energy efficient content delivery clouds. , 2015, , .		17
250	EMaaS: Cloud-Based Energy Management Service for Distributed Renewable Energy Integration. IEEE Transactions on Smart Grid, 2015, 6, 2816-2824.	6.2	54
251	Problems and prospects of implementing cloud computing in university libraries. Library Review, 2015, 64, 567-582.	1.5	11
252	QoS degradation based reimbursement for real-time cloud communication. , 2015, , .		2
253	Energy Efficiency Techniques in Cloud Computing. ACM Computing Surveys, 2015, 48, 1-46.	16.1	144
254	Energy Efficient Tapered Data Networks for Big Data processing in IP/WDM networks. , 2015, , .		8
255	A Secure and Efficient Smartphone Payment Scheme in IoT/Cloud Environments. , 2015, , .		2

#	Article	IF	Citations
256	A Measurement-Based Characterization of the Energy Consumption in Data Center Servers. IEEE Journal on Selected Areas in Communications, 2015, 33, 2863-2877.	9.7	23
257	An Authenticated Trust and Reputation Calculation and Management System for Cloud and Sensor Networks Integration. IEEE Transactions on Information Forensics and Security, 2015, 10, 118-131.	4.5	84
258	Energy efficiency heterogeneous wireless access selection for multiple types of applications. Journal of Systems and Software, 2015, 101, 97-109.	3.3	7
259	Optimizing virtual machine allocation for parallel scientific workflows in federated clouds. Future Generation Computer Systems, 2015, 46, 51-68.	4.9	46
260	Electricity consumption of telecommunication equipment to achieve a telemeeting. Applied Energy, 2015, 137, 273-281.	5.1	18
261	Time-Shift Current Balance Technique in Four-Phase Voltage Regulator Module with 90% Efficiency for Cloud Computing. IEEE Transactions on Power Electronics, 2015, 30, 1521-1534.	5.4	6
262	Energy Efficient in Virtual Infrastructure and Green Cloud Computing: A Review. Indian Journal of Science and Technology, 2016, 9, .	0.5	10
263	Dynamic Scalable Stochastic Petri Net: A Novel Model for Designing and Analysis of Resource Scheduling in Cloud Computing. Scientific Programming, 2016, 2016, 1-13.	0.5	3
264	Largeâ€scale validation and benchmarking of a network of powerâ€conservative systems using ETSI's Green Abstraction Layer. Transactions on Emerging Telecommunications Technologies, 2016, 27, 451-468.	2.6	7
265	Energy Efficient Traffic-Aware Virtual Machine Migration in Green Cloud Data Centers. , 2016, , .		28
267	Resource Allocation for Wireless Body Area Networks in Presence of Selfish Agents. , 2016, , .		1
268	Understanding â€œworkload-relatedâ€•metrics for energy efficiency in Data Center. , 2016, , .		5
269	A smartphone-based design of wireless human-on-the-bike monitoring system. , 2016, , .		3
270	Interconnecting Fog computing and microgrids for greening IoT. , 2016, , .		39
271	Adaptive link rates for burst based transmission towards the prosperity of green networks. , 2016, , .		2
272	Security challenges in smart surveillance systems and the solutions based on emerging nano-devices. , 2016, , .		0
273	An Energy-Aware Workload Balancing Method for Cloud Video Data Storage Management. , 2016, , .		1
274	Green Cloud Provisioning Throughout Cooperation of a WDM Wide Area Network and a Hybrid Power IT Infrastructure. Journal of Grid Computing, 2016, 14, 127-151.	2.5	11

#	Article	IF	Citations
275	Green Mobile Cloud Computing. , 2016, , 103-139.		0
276	Green latency-aware data placement in data centers. Computer Networks, 2016, 110, 46-57.	3.2	11
277	Malleable Coding for Updatable Cloud Caching. IEEE Transactions on Communications, 2016, 64, 4946-4955.	4.9	1
278	The rebound effect and Schatzkiâ€™s social theory: Reassessing the socio-materiality of energy consumption via a German case study. Energy Research and Social Science, 2016, 22, 183-193.	3.0	28
279	Mobile apps for Green Cloud Computing performance measure. , 2016, , .		3
280	Energy efficient resource provisioning with VM migration heuristic for Disaggregated Server design. , 2016, , .		4
281	Reliability-Performance-Energy Joint Modeling and Optimization for a Big Data Task. , 2016, , .		3
282	Energy Efficient Cloud Service Provisioning: Keeping Data Center Granularity in Perspective. Journal of Grid Computing, 2016, 14, 299-325.	2.5	15
283	Area-efficient IoT MCU with remote code execution layer for cloud-connected code executable things. IEICE Electronics Express, 2016, 13, 20160449-20160449.	0.3	2
284	Green Hybrid Satellite Terrestrial Networks: Fundamental Trade-Off Analysis. , 2016, , .		10
285	Minimizing computing-plus-communication energy consumptions in virtualized networked data centers. , 2016, , .		11
286	EnergyMap: Energy-efficient embedding of MapReduce-based virtual networks and controlling incast queuing delay. , 2016, , .		3
287	Developing nontrivial standby power management using consumer pattern tracking for on-demand appliance energy saving over cloud networks. IEEE Transactions on Consumer Electronics, 2016, 62, 251-257.	3.0	6
288	A novel energy efficient platform based model to enable mobile Cloud applications. , 2016, , .		4
289	How to improve the sustainability of digital libraries and information Services?. Journal of the Association for Information Science and Technology, 2016, 67, 2379-2391.	1.5	23
290	Jointâ€analysis of performance and energy consumption when enabling cloud elasticity for synchronous HPC applications. Concurrency Computation Practice and Experience, 2016, 28, 1548-1571.	1.4	9
291	How Much Does a VM Cost? Energy-Proportional Accounting in VM-Based Environments. , 2016, , .		19
292	An optimal data service providing framework in cloud radio access network. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	1.5	26

#	Article	IF	Citations
293	Inter-Data Center Network Dimensioning under Time-of-Use Pricing. IEEE Transactions on Cloud Computing, 2016, 4, 402-414.	3.1	13
294	AutoElastic: Automatic Resource Elasticity for High Performance Applications in the Cloud. IEEE Transactions on Cloud Computing, 2016, 4, 6-19.	3.1	63
295	Green Cloud Meta-Scheduling. Journal of Grid Computing, 2016, 14, 109-126.	2.5	11
296	Delivering cloud services with QoS requirements: Business opportunities, architectural solutions and energy-saving aspects. Future Generation Computer Systems, 2016, 55, 403-427.	4.9	20
297	Fog Computing May Help to Save Energy in Cloud Computing. IEEE Journal on Selected Areas in Communications, 2016, 34, 1728-1739.	9.7	318
298	Reducing your local footprint with anyrun computing. Computer Communications, 2016, 81, 1-11.	3.1	22
299	Energy-aware dynamical hosts and tasks assignment for cloud computing. Journal of Systems and Software, 2016, 115, 144-156.	3.3	8
300	Cloud-Integrated Cyber-Physical Systems for Complex Industrial Applications. Mobile Networks and Applications, 2016, 21, 865-878.	2.2	112
301	A packing problem approach to energy-aware load distribution in Clouds. Sustainable Computing: Informatics and Systems, 2016, 9, 20-32.	1.6	5
302	Decentralized and Energy-Efficient Workload Management in Enterprise Clouds. IEEE Transactions on Cloud Computing, 2016, 4, 196-209.	3.1	29
303	On Achieving Energy Efficiency and Reducing CO₂Footprint in Cloud Computing. IEEE Transactions on Cloud Computing, 2016, 4, 138-151.	3.1	46
304	A Hierarchical Correlation Model for Evaluating Reliability, Performance, and Power Consumption of a Cloud Service. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 401-412.	5.9	50
305	<italic>EnReal</italic>: An Energy-Aware Resource Allocation Method for Scientific Workflow Executions in Cloud Environment. IEEE Transactions on Cloud Computing, 2016, 4, 166-179.	3.1	125
306	Cloud Customer's Historical Record Based Resource Pricing. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 1929-1940.	4.0	28
307	Dynamic energy-aware cloudlet-based mobile cloud computing model for green computing. Journal of Network and Computer Applications, 2016, 59, 46-54.	5.8	435
308	Energy-Aware Load Balancing and Application Scaling for the Cloud Ecosystem. IEEE Transactions on Cloud Computing, 2017, 5, 15-27.	3.1	89
309	Metrics on Energy Efficiency for Cognitive Green Equipment Based on FPGA Platform. IEEE Systems Journal, 2017, 11, 740-751.	2.9	1
310	Priority Scheduling for Heterogeneous Workloads: Tradeoff Between Evictions and Response Time. IEEE Systems Journal, 2017, 11, 684-695.	2.9	1

#	Article	IF	Citations
311	Dynamically Weighted Load Evaluation Method Based on Self-adaptive Threshold in Cloud Computing. Mobile Networks and Applications, 2017, 22, 4-18.	2.2	21
312	A Game-Theoretic Analysis of Energy Efficiency and Performance for Cloud Computing in Communication Networks. IEEE Systems Journal, 2017, 11, 649-660.	2.9	17
313	An energy-efficient system on a programmable chip platform for cloud applications. Journal of Systems Architecture, 2017, 76, 117-132.	2.5	20
314	Social Computing: New Pervasive Computing Paradigm to Enhance Triple Bottom Line. Lecture Notes in Computer Science, 2017, , 656-671.	1.0	2
315	Secure and Dependable Multi-Cloud Network Virtualization. , 2017, , .		0
316	GreenMap: Green mapping of MapReduce-based virtual networks onto a data center network and managing incast queueing delay. Computer Networks, 2017, 112, 345-359.	3.2	4
317	Optimal Scheduling and Management on Correlating Reliability, Performance, and Energy Consumption for Multiagent Cloud Systems. IEEE Transactions on Reliability, 2017, 66, 547-558.	3.5	23
318	Towards Green IoT Networking: Performance Optimization of Network Coding Based Communication and Reliable Storage. IEEE Access, 2017, 5, 8780-8791.	2.6	36
319	Eventâ€driven detection method based on pseudoâ€differential selfâ€timed inverterâ€based incremental sigmaâ€delta analogueâ€toâ€digital converter. IET Circuits, Devices and Systems, 2017, 11, 216-224.	0.9	1
320	A power- and storage-efficient HLS media server for multi-bitrate VOD services. , 2017, , .		0
321	Incentive mechanism for computation offloading using edge computing: A Stackelberg game approach. Computer Networks, 2017, 129, 399-409.	3.2	141
322	Virtual machine management system based on the power saving algorithm in cloud. Journal of Network and Computer Applications, 2017, 80, 165-180.	5.8	22
323	FFBAT: A security and costâ€aware workflow scheduling approach combining firefly and bat algorithms. Concurrency Computation Practice and Experience, 2017, 29, e4295.	1.4	28
324	Towards collaborative storage scheduling using alternating direction method of multipliers for mobile edge cloud. Journal of Systems and Software, 2017, 134, 29-43.	3.3	15
325	A taxonomic survey on load balancing in cloud. Journal of Network and Computer Applications, 2017, 98, 43-57.	5.8	67
326	Greening IoT with Fog: A Survey. , 2017, , .		38
327	Virtual storage and area limited data delivery over named data networking. , 2017, , .		0
328	Calvin Constrained â€" A Framework for IoT Applications in Heterogeneous Environments. , 2017, , .		11

#	Article	IF	Citations
329	Information practices for sustainability: Role of iSchools in achieving the UN sustainable development goals (SDGs). Journal of the Association for Information Science and Technology, 2017, 68, 2128-2138.	1.5	43
330	Green IoT: An Investigation on Energy Saving Practices for 2020 and Beyond. IEEE Access, 2017, 5, 15667-15681.	2.6	244
331	Research on Condition Monitoring of Intelligent Substation Equipment Based on Hadoop and MapReduce. , 2017, , .		0
332	Analysis, Modelling and Characterisation of Zombie Servers in Large-Scale Cloud Datacentres. IEEE Access, 2017, 5, 15040-15054.	2.6	7
333	Optimizing the docker container usage based on load scheduling. , 2017, , .		14
334	Application-Agnostic Power Monitoring in Virtualized Environments. , 2017, , .		6
335	A Survey on Modeling Energy Consumption of Cloud Applications: Deconstruction, State of the Art, and Trade-Off Debates. IEEE Transactions on Sustainable Computing, 2017, 2, 255-274.	2.2	19
336	Elastipipe: On Providing Cloud Elasticity for Pipeline-structured Applications. Lecture Notes on Data Engineering and Communications Technologies, 2017, , 293-304.	0.5	0
337	Quality of service aware cloud resource provisioning for social multimedia services and applications. Multimedia Tools and Applications, 2017, 76, 14485-14509.	2.6	22
338	Area efficient remote code execution platform with on-demand instruction manager for cloud-connected code executable IoT devices. Simulation Modelling Practice and Theory, 2017, 77, 379-389.	2.2	6
339	A survey regarding the readiness of campus in Indonesia on the adoption of green computing. , 2017, , .		2
340	An analytical evaluation of challenges in Green cloud computing. , 2017, , .		7
341	Future Energy Efficient Data Centers With Disaggregated Servers. Journal of Lightwave Technology, 2017, 35, 5361-5380.	2.7	70
342	Lossless Image Compression in Cloud Computing. , 2017, , .		9
343	Energy efficient virtual machines placement in IP over WDM networks. , 2017, , .		5
344	Multimedia user request scheduling using single kernerl â€" SVM and fast Lyapunov in H-Cloud. , 2017, , .		1
345	Distributed processing in vehicular cloud networks. , 2017, , .		17
346	ENAGS. , 2017, , .		1

#	Article	IF	Citations
347	Energy Challenges for ICT. , 0, , .		18
348	Computer Clouds. , 2017, , 113-145.		0
349	Adoption of Cloud Computing in Higher Learning Institutions: A Systematic Review. Indian Journal of Science and Technology, 2017, 10, 1-19.	0.5	11
350	Green Cloud Computing: A Literature Survey. Symmetry, 2017, 9, 295.	1.1	72
351	A comparative-study of load-cloud balancing algorithms in cloud environments. , 2017, , .		22
352	Research on a resource allocation algorithm based on energy conservation. , 2017, , .		0
353	Multi-Disciplinary Green IT Archival Analysis: A Pathway for Future Studies. Communications of the Association for Information Systems, 0, 41, 674-733.	0.7	6
354	Towards Virus Scanning as a Service in Mobile Cloud Computing: Energy-Efficient Dispatching Policy Under ${N}$ -Version Protection. IEEE Transactions on Emerging Topics in Computing, 2018, 6, 122-134.	3.2	10
355	An Algorithm for Finding the Minimum Cost of Storing and Regenerating Datasets in Multiple Clouds. IEEE Transactions on Cloud Computing, 2018, 6, 519-531.	3.1	7
356	Energy Efficient Big Data Networks: Impact of Volume and Variety. IEEE Transactions on Network and Service Management, 2018, 15, 458-474.	3.2	60
357	A Survey to Predict the Trend of AI-able Server Evolution in the Cloud. IEEE Access, 2018, 6, 10591-10602.	2.6	17
358	A Survey on the Edge Computing for the Internet of Things. IEEE Access, 2018, 6, 6900-6919.	2.6	987
359	Joint Resource Allocation for Software-Defined Networking, Caching, and Computing. IEEE/ACM Transactions on Networking, 2018, 26, 274-287.	2.6	54
360	AMELIA: An application of the Internet of Things for aviation safety. , 2018, , .		16
361	DPRA: Dynamic Power-Saving Resource Allocation for Cloud Data Center Using Particle Swarm Optimization. IEEE Systems Journal, 2018, 12, 1554-1565.	2.9	51
362	Microprocessor Optimizations for the Internet of Things: A Survey. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 7-20.	1.9	74
363	A novel process-based association rule approach through maximal frequent itemsets for big data processing. Future Generation Computer Systems, 2018, 81, 414-424.	4.9	7
364	MEnSuS: An efficient scheme for energy management with sustainability of cloud data centers in edgeâ€“cloud environment. Future Generation Computer Systems, 2018, 86, 1279-1300.	4.9	55

#	Article	IF	Citations
365	An empirical evaluation of energy-aware load balancing technique for cloud data center. Cluster Computing, 2018, 21, 1311-1329.	3.5	8
366	Energy-proportional profiling and accounting in heterogeneous virtualized environments. Sustainable Computing: Informatics and Systems, 2018, 18, 175-185.	1.6	0
367	Green Approach for Joint Management of Geo-Distributed Data Centers and Interconnection Networks. Journal of Network and Systems Management, 2018, 26, 723-754.	3.3	5
368	Temperature and Power Aware Server Placement Optimization for Enterprise Data Center. , 2018, , .		3
369	Fog Computing and Its Role in Development of Smart Applications. , 2018, , .		23
370	A Comparative Study Using Hybrid Approach for Energy Efficiency in Cloud Data Center. , 2018, , .		0
371	Design and Implementation of The Metadata Modification Concept Minimizing File Modification. , 2018, , .		1
372	Power Management Policy for Heterogeneous Data Center Based on Histogram and Discrete-Time MDP. Electronic Notes in Theoretical Computer Science, 2018, 337, 5-22.	0.9	1
373	Energy Efficient Service Distribution in Internet of Things. , 2018, , .		5
374	Impact of Virtualization on Cloud Computing Energy Consumption. , 2018, , .		12
376	Resource Scheduling and Load Balancing Fusion Algorithm with Deep Learning Based on Cloud Computing. International Journal of Information Technology and Web Engineering, 2018, 13, 54-72.	1.2	15
377	Analysis and Research on Green Cloud Computing. , 2018, , .		0
378	ICT Development and Sustainable Energy Consumption: A Perspective of Energy Productivity. Sustainability, 2018, 10, 2568.	1.6	39
379	Towards Utilization of Covert Channels as a Green Networking Technique. , 2018, , .		2
380	Environmental impact assessment of online advertising. Environmental Impact Assessment Review, 2018, 73, 177-200.	4.4	22
381	Green Computing: Efficient Energy Load Balancing Technique in Cloud Computing. SSRN Electronic Journal, 0, , .	0.4	0
382	Architecture to Integrate IoT Networks Using Artificial Intelligence in the Cloud. , 2018, , .		3
383	Semantic Multimedia Fog Computing and IoT Environment: Sustainability Perspective. , 2018, 56, 80-87.		46

#	Article	IF	Citations
384	Cloud Hardware and Software. , 2018, , 281-319.		0
385	Cloud Resource Management and Scheduling. , 2018, , 321-363.		2
387	Performance Modeling and Suitability Assessment of Data Center Based on Fog Computing in Smart Systems. IEEE Access, 2018, 6, 29587-29593.	2.6	9
388	Formally modeling and analyzing costâ€aware job scheduling for cloud data center. Software - Practice and Experience, 2018, 48, 1536-1559.	2.5	2
389	Cloud computing-enabled healthcare opportunities, issues, and applications: A systematic review. International Journal of Information Management, 2018, 43, 146-158.	10.5	141
390	Green economics: A roadmap to sustainable ICT development. , 2018, , .		5
391	The Requrirement and Experiment Test for Green Cloud Computing by Users. , 2018, , .		0
392	Consume Local: Towards Carbon Free Content Delivery. , 2018, , .		4
393	Towards Energy Saving in Computational Clouds: Taxonomy, Review, and Open Challenges. IEEE Access, 2018, 6, 29407-29418.	2.6	17
394	An improved estimation of distribution algorithm for cloud computing resource scheduling. , 2018, , .		3
395	Sensor Data Compression Using Bounded Error Piecewise Linear Approximation with Resolution Reduction. Energies, 2019, 12, 2523.	1.6	11
396	Energy Harvesting Techniques for Wireless Sensor Networks/Radio-Frequency Identification: A Review. Symmetry, 2019, 11, 865.	1.1	72
397	Greening internet of things for greener and smarter cities: a survey and future prospects. Telecommunication Systems, 2019, 72, 609-632.	1.6	88
398	Quality of experience (QoE) in cloud gaming models: A review. Multiagent and Grid Systems, 2019, 15, 289-304.	0.5	44
399	A Framework for Quantifying Energy and Productivity Benefits of Smart Manufacturing Technologies. Procedia CIRP, 2019, 80, 699-704.	1.0	13
400	Accurately Simulating Energy Consumption of I/O-Intensive Scientific Workflows. Lecture Notes in Computer Science, 2019, , 138-152.	1.0	5
401	Integrated network and hosts energy management for cloud data centers. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3641.	2.6	5
402	A development approach for collective opportunistic Edge-of-Things services. Information Sciences, 2019, 498, 154-169.	4.0	60

#	Article	IF	Citations
403	Elastic-RAN: An adaptable multi-level elasticity model for Cloud Radio Access Networks. Computer Communications, 2019, 142-143, 34-47.	3.1	6
404	Energy and cost aware scheduling with batch processing for instance-intensive IoT workflows in clouds. Future Generation Computer Systems, 2019, 101, 39-50.	4.9	33
405	Aeronautical $Ad-Hoc$ Networking for the Internet-Above-the-Clouds. Proceedings of the IEEE, 2019, 107, 868-911.	16.4	132
406	A highly efficient algorithm towards optimal data storage and regeneration cost in multiple clouds. Future Generation Computer Systems, 2019, 99, 459-472.	4.9	3
407	Real-Time Adaptive Energy-Scheduling Algorithm for Virtualized Cloud Computing. International Journal of Distributed and Parallel Systems, 2019, 10, 01-14.	0.2	0
408	Storage of Information Using Small Organic Molecules. ACS Central Science, 2019, 5, 911-916.	5.3	70
409	The Case For In-Network Computing On Demand. , 2019, , .		60
410	Cloud Computing Research Profiling: Mapping Scholarly Community and Identifying Thematic Boundaries of the Field. Social Sciences, 2019, 8, 112.	0.7	7
411	Data Centerâ€™s Energy Savings for Data Transport via TCP on Hybrid Optoelectronic Switches. IEEE Photonics Technology Letters, 2019, 31, 631-634.	1.3	3
412	Low Power Design for DVFS Capable Software. , 2019, , .		0
413	Translate and Summarize Complaints of Patient to Electronic Health Record by BiLSTM-CNN Attention model. , 2019, , .		1
414	Performance Modeling and Assessment of Unified Video Surveillance System Based on Ubiquitous SG-eIoT. , 2019, , .		1
415	Comprehensive solution of Scheduling and Balancing Load in Cloud - A Review. , 2019, , .		2
416	Optical Networks in Edge Clouds: Energy and Application Dimensions. , 2019, , .		0
417	A Weighted PageRank-Based Algorithm for Virtual Machine Placement in Cloud Computing. IEEE Access, 2019, 7, 176369-176381.	2.6	12
418	Data Center's Energy Savings for Data Transport via TCP on Hybrid Optoelectronic Switches. , 2019, , .		0
419	Energy Efficient Resource Allocation in Vehicular Cloud Based Architecture. , 2019, , .		11
420	Recent Trends in Green Cloud Computing. Lecture Notes in Networks and Systems, 2019, , 947-956.	0.5	6

#	Article	IF	Citations
421	Improving task scheduling with parallelism awareness in heterogeneous computational environments. Future Generation Computer Systems, 2019, 94, 419-429.	4.9	17
422	Simulating the service lifetimes and storage phases of consumer electronics in Europe with a cascade stock and flow model. Journal of Cleaner Production, 2019, 213, 1313-1321.	4.6	27
423	Risks and rewards of cloud computing in the UK public sector: A reflection on three Organisational case studies. Information Systems Frontiers, 2019, 21, 359-382.	4.1	38
424	Correlation Modeling and Resource Optimization for Cloud Service With Fault Recovery. IEEE Transactions on Cloud Computing, 2019, 7, 693-704.	3.1	25
425	Adaptive Computing-Plus-Communication Optimization Framework for Multimedia Processing in Cloud Systems. IEEE Transactions on Cloud Computing, 2020, 8, 1162-1175.	3.1	64
426	Reinforcement learning based methodology for energy-efficient resource allocation in cloud data centers. Journal of King Saud University - Computer and Information Sciences, 2020, 32, 1127-1139.	2.7	23
427	GREEN SDN â€" An enhanced paradigm of SDN: Review, taxonomy, and future directions. Concurrency Computation Practice and Experience, 2020, 32, e5086.	1.4	3
428	Notice of Retraction: Enabling Hardware Green Internet of Things: A review of Substantial Issues. IEEE Access, 2024, , 1-1.	2.6	5
429	A hybrid security strategy (HS2) for reliable video streaming in fog computing. Wireless Networks, 2020, 26, 1389-1416.	2.0	2
430	WBAT Job Scheduler: A Multi-Objective Approach for Job Scheduling Problem on Cloud Computing. Journal of Circuits, Systems and Computers, 2020, 29, 2050089.	1.0	13
431	Data placement in distributed data centers for improved SLA and network cost. Journal of Parallel and Distributed Computing, 2020, 146, 189-200.	2.7	4
432	Green IoT: Advancements and Sustainability with Environment by 2050. , 2020, , .		20
433	Issues and Challenges of Cloud Computing in Performance Augmentation for Pervasive Computing. , 2020, , .		5
434	A Comparative Study Based on Different Energy Saving Mechanisms Based on Green Internet of Things (GIoT). , 2020, , .		18
435	Energy Efficient Distributed Processing for IoT. IEEE Access, 2020, 8, 161080-161108.	2.6	18
436	Energy Efficient Fog-Based Healthcare Monitoring Infrastructure. IEEE Access, 2020, 8, 197828-197852.	2.6	32
437	A Study on Heuristic Task Scheduling Optimizing Task Deadline Violations in Heterogeneous Computational Environments. IEEE Access, 2020, 8, 205635-205645.	2.6	6
438	Energy Efficient Software Matching in Distributed Vehicular Fog Based Architecture with Cloud and Fixed Fog Nodes. , 2020, , .		3

#	Article	IF	Citations
439	Energy-Aware Cloud Workflow Applications Scheduling With Geo-Distributed Data. IEEE Transactions on Services Computing, 2022, 15, 891-903.	3.2	21
440	Characterizing, Modeling, and Accurately Simulating Power and Energy Consumption of I/O-intensive Scientific Workflows. Journal of Computational Science, 2020, 44, 101157.	1.5	9
441	Enhancing operational performance and productivity benefits in breweries through smart manufacturing technologies. Journal of Advanced Manufacturing and Processing, 2020, 2, .	1.4	5
443	Cost-Efficient Outsourced Decryption of Attribute-Based Encryption Schemes for Both Users and Cloud Server in Green Cloud Computing. IEEE Access, 2020, 8, 20862-20869.	2.6	12
444	A Study on Energy Consumption of DVFS and Simple VM Consolidation Policies in Cloud Computing Data Centers Using CloudSim Toolkit. Wireless Personal Communications, 2020, 112, 729-741.	1.8	15
447	Communication-Efficient Offloading for Mobile-Edge Computing in 5G Heterogeneous Networks. IEEE Internet of Things Journal, 2021, 8, 10237-10247.	5.5	12
448	An Adaptive Energy-Aware Stochastic Task Execution Algorithm in Virtualized Networked Datacenters. IEEE Transactions on Sustainable Computing, 2022, 7, 371-385.	2.2	4
449	An Energy-Efficient In-Network Computing Paradigm for 6G. IEEE Transactions on Green Communications and Networking, 2021, 5, 1722-1733.	3.5	35
450	Current Drift in Energy Efficiency Cloud Computing. , 2021, , 1198-1214.		0
451	An Investigation for CA-Based PageRank Validation in View of Power-Law Distribution of Web Data to Enhance Trustworthiness and Safety for Green Cloud. Advances in Business Strategy and Competitive Advantage Book Series, 2021, , 368-378.	0.2	3
452	A systematic study of load balancing approaches in the fog computing environment. Journal of Supercomputing, 2021, 77, 9202-9247.	2.4	45
454	Energy Efficient Fog Computing with Architecture of Smart Traffic Lights System. , 2021, , .		2
455	Resource Allocation Scheduling Algorithm Based on Incomplete Information Dynamic Game for Edge Computing. International Journal of Web Services Research, 2021, 18, 1-24.	0.5	6
456	A comparative study of energy and task efficient load balancing algorithms in cloud computing. Journal of Physics: Conference Series, 2021, 1913, 012105.	0.3	1
457	Analysis of Green IoT. Journal of Physics: Conference Series, 2021, 1874, 012012.	0.3	10
458	Quantifying the Net Environmental Impact of Using IoT to Support Circular Strategiesâ€"The Case of Heavy-Duty Truck Tires in Sweden. Circular Economy and Sustainability, 2021, 1, 613-650.	3.3	8
459	Fog Computing Infrastructure Simulation Toolset Review for Energy Estimation, Planning and Scalability. International Journal of Sustainable Energy Development, 2021, 9, 421-426.	0.4	0
460	Intelligent Data Collaboration in Heterogeneous-device IoT Platforms. ACM Transactions on Sensor Networks, 2021, 17, 1-17.	2.3	11

#	Article	IF	Citations
461	Security-aware task scheduling with deadline constraints on heterogeneous hybrid clouds. Journal of Parallel and Distributed Computing, 2021, 153, 15-28.	2.7	24
462	Is e-reading environmentally more sustainable than conventional reading? Evidence from a systematic literature review. Library and Information Science Research, 2021, 43, 101105.	1.2	2
463	Storage Protection with Connectivity and Processing Restoration for Survivable Cloud Services. , 2021, , .		0
464	Secure blockchain enabled Cyberâ€“physical systems in healthcare using deep belief network with ResNet model. Journal of Parallel and Distributed Computing, 2021, 153, 150-160.	2.7	164
465	Novel dynamic load balancing algorithm for cloud-based big data analytics. Journal of Supercomputing, 2022, 78, 4131-4156.	2.4	6
466	Recent Developments in Parallel and Distributed Computing for Remotely Sensed Big Data Processing. Proceedings of the IEEE, 2021, 109, 1282-1305.	16.4	45
467	Comparison of Algorithms for W orkflow Applications in C loud C omputing. International Journal of Engineering and Advanced Technology, 2021, 11, 55-59.	0.2	0
468	Recent advances of nanofluids in micro/nano scale energy transportation. Renewable and Sustainable Energy Reviews, 2021, 149, 111346.	8.2	29
469	Using behavioural data to assess the environmental impact of electricity consumption of alternate television service distribution platforms. Environmental Impact Assessment Review, 2021, 91, 106661.	4.4	11
470	Artificial Intelligence and emerging digital technologies in the energy sector. Applied Energy, 2021, 303, 117615.	5.1	95
471	Fog and edge computing: concepts, tools and focus areas. International Journal of Information Technology (Singapore), 2021, 13, 511-522.	1.8	19
472	Impact of Future Trends on Exascale Grid and Cloud Computing. Lecture Notes in Computer Science, 2014, , 215-231.	1.0	4
474	The Energy Intensity of the Internet: Home and Access Networks. Advances in Intelligent Systems and Computing, 2015, , 137-155.	0.5	23
475	Security and Efficiency Analysis on a Simple Keyword Search Scheme over Encrypted Data in Cloud Storage Services. Lecture Notes in Computer Science, 2014, , 367-375.	1.0	2
476	Exploring Cloud Elasticity in Scientific Applications. Computer Communications and Networks, 2017, , 101-125.	0.8	3
477	Energy-Efficient and Latency-Aware Data Placement for Geo-Distributed Cloud Data Centers. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 465-474.	0.2	4
478	The Concept of a Mobile Cloud Computing to Reduce Energy Cost of Smartphones and ICT Systems. Lecture Notes in Computer Science, 2011, , 79-86.	1.0	7
480	Greening Digital Forensics: Opportunities and Challenges. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 114-119.	0.2	3

#	Article	IF	Citations
481	Is the Post-Turing ICT Sustainable?. IFIP Advances in Information and Communication Technology, 2012, , 183-191.	0.5	2
482	Energy Efficient Task Scheduling in Mobile Cloud Computing. Lecture Notes in Computer Science, 2013, , 344-355.	1.0	22
483	Optimization of a Cloud Resource Management Problem from a Consumer Perspective. Lecture Notes in Computer Science, 2014, , 218-227.	1.0	11
484	A Taxonomy and Survey of Power Models and Power Modeling for Cloud Servers. ACM Computing Surveys, 2021, 53, 1-41.	16.1	28
485	An Intelligent Job Scheduling System for Web Service in Cloud Computing. TELKOMNIKA Indonesian Journal of Electrical Engineering, 2013, 11, .	0.1	9
486	Cloud Computing and its Environmental Effects. International Journal of Grid and Distributed Computing, 2015, 8, 279-286.	0.8	7
487	Review of the Research on the Optimization of the Energy Consumption of the Cloud Platform. International Journal of Smart Home, 2016, 10, 241-250.	0.6	2
488	A New Task Scheduling Algorithm using Firefly and Simulated Annealing Algorithms in Cloud Computing. International Journal of Advanced Computer Science and Applications, 2018, 9, .	0.5	16
489	Trusted Energy-Efficient Cloud-Based Services Brokerage Platform. International Journal of Intelligent Computing Research, 2015, 6, 630-639.	0.5	38
490	Energy Management for Cloud Computing: A Survey from Scheduling Perspective of Heuristic, Game Theory and Learning Strategy. Journal of Computer Science & Computational Mathematics, 0, , 41-48.	0.2	2
492	Opportunities and Challenges of Cloud Computing to Improve Health Care Services. Journal of Medical Internet Research, 2011, 13, e67.	2.1	339
493	Scaling the Performance and Cost for Elastic Cloud Web Services. Journal of Computing and Information Technology, 2013, 21, 85.	0.2	2
494	A Systems Thinking View on Cloud Computing and Energy Consumption. , 0, , .		6
495	Modelling of Electricity Mix in Temporal Differentiated Life-Cycle-Assessment to Minimize Carbon Footprint of a Cloud Computing Service. , 0, , .		9
496	Schedulers Based on Ant Colony Optimization for Parameter Sweep Experiments in Distributed Environments. , 2013, , 410-448.		9
497	Green Data Center. Advances in Environmental Engineering and Green Technologies Book Series, 2014, , 179-199.	0.3	2
498	Rough Set Based Green Cloud Computing in Emerging Markets. , 2015, , 1078-1087.		4
499	An Evolutionary Approach for Load Balancing in Cloud Computing. Advances in Information Security, Privacy, and Ethics Book Series, 2015, , 433-463.	0.4	2

#	Article	IF	Citations
500	Energy-Saving QoS Resource Management of Virtualized Networked Data Centers for Big Data Stream Computing. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2015, , 122-155.	0.5	4
501	Green Computing. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2016, , 84-108.	0.5	2
502	Resource Scheduling for Energy-Aware Reconfigurable Internet Data Centers. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2016, , 21-46.	0.5	4
503	Current Drift in Energy Efficiency Cloud Computing. Advances in Information Security, Privacy, and Ethics Book Series, 2018, , 283-303.	0.4	2
504	On Investigating Energy Stability for Cellular Automata Based PageRank Validation Model in Green Cloud. International Journal of Cloud Applications and Computing, 2019, 9, 66-85.	1.1	6
505	Energy Efficient CA based Page Rank Validation Model. International Journal of Green Computing, 2017, 8, 59-76.	0.6	10
506	An Eco-Friendly Efficient Cloud-Searching Technique With Delay. International Journal of Green Computing, 2018, 9, 20-34.	0.6	1
507	Computing Traffic Information in the Cloud. International Journal of Grid and High Performance Computing, 2014, 6, 21-37.	0.7	4
508	Energy Aware Task Assignment with Cost Optimization in Mobile Cloud Computing. International Journal of Communications, Network and System Sciences, 2018, 11, 175-185.	0.4	3
509	Energy-efficient Task Scheduling Model based on MapReduce for Cloud Computing using Genetic Algorithm. Journal of Computers, 2012, 7, .	0.4	18
510	Cloud Computing: Comparison with Previous Technique and Research Challenges. International Journal of Computer Applications, 2014, 85, 43-47.	0.2	1
511	Green Computing and Strategies for Energy Efficient Cloud Management. International Journal of Computer Applications, 2016, 150, 9-14.	0.2	4
512	An Energy-aware Scheduling Algorithm in DVFS-enabled Networked Data Centers. , 2016, , .		14
514	Performance Evaluation of Power Aware VM Consolidation using Live Migration. International Journal of Computer Network and Information Security, 2015, 7, 67-76.	1.8	3
515	Mobile Energy Efficiency Study using Cloud Computing in LTE. Journal of Broadcast Engineering, 2014, 19, 24-30.	0.1	2
516	Architecting Green Mobile Cloud Apps. , 2021, , 183-214.		0
517	Storing and Reading Information in Mixtures of Fluorescent Molecules. ACS Central Science, 2021, 7, 1728-1735.	5.3	29
518	Power Consumption Evaluation of Distributed Computing Network Considering Traffic Locality. IEICE Transactions on Communications, 2012, E95.B, 2538-2548.	0.4	0

#	Article	IF	Citations
519	AN INTELLIGENT CLOUD RESOURCE ALLOCATION SERVICE - Agent-based Automated Cloud Resource Allocation using Micro-agreement. , 2012, , .		5
520	Energy-Efficient Demand Provisioning in the Cloud. , 2012, , .		8
521	CLOUD COMPUTING AND ACPI An approach to implement better energy management towards green IT. IOSR Journal of Engineering, 2012, 02, 61-64.	0.1	0
522	Increasing Cloud Usage: A Shift towards Green Clouds. International Journal of Computer Applications, 2013, 67, 28-32.	0.2	3
523	Content in the Cloud. Advances in Library and Information Science, 2014, , 227-238.	0.2	0
524	A Strategic Model for Adopting Energy Efficient Cloud Computing Infrastructure for Sustainable Environment. SSRN Electronic Journal, 0, , .	0.4	0
525	Towards an Energy-Efficient Internet. , 2014, , .		2
526	Green Cloud Computing. Advances in Data Mining and Database Management Book Series, 2014, , 508-533.	0.4	0
527	The Study on Capacity Enhancement of Distributed Systems Cloud Services. , 0, , .		1
528	Forecasting the Trends in Cloud Computing and its Impact on Future IT Business. Advances in Environmental Engineering and Green Technologies Book Series, 2014, , 14-32.	0.3	5
529	Resource Scheduling Optimization Algorithm of Energy Consumption for Cloud Computing Based on Task Tolerance. Journal of Software, 2014, 9, .	0.6	3
530	Optimization of Power Consumption in Cloud Data Centers Using Green Networking Techniques. AL-Rafdain Engineering Journal (AREJ), 2014, 22, 13-27.	0.1	1
531	Improving Performance in Cloud using Multi-Job Scheduling based Group Discovery Algorithm. International Journal of Computer Applications, 2014, 91, 11-17.	0.2	5
532	A Strategic Model for Adopting Energy Efficient Cloud Computing Infrastructure for Sustainable Environment. Environment and Ecology Research, 2014, 2, 153-170.	0.1	1
533	Performance Evaluation of Min-Min and Max-Min Algorithms for Job Scheduling in Federated Cloud. International Journal of Computer Applications, 2014, 99, 47-54.	0.2	10
534	Energy-Efficient PSO and Latency Based Group Discovery Algorithm in Cloud Scheduling. International Journal of Information Technology and Computer Science, 2014, 6, 48-55.	0.8	1
535	3D-Based Monitoring System and Cloud Computing for Panoramic Video Service. The Journal of Korean Institute of Communications and Information Sciences, 2014, 39B, 590-597.	0.0	0
536	APPROACH FOR RESOURCE MANAGEMENT IN GRID ENVIRONMENTS USING GENETIC ALGORITHM. Advances in Science and Technology Research Journal, 2015, 9, 18-26.	0.4	0

#	Article	IF	Citations
537	Cloud Carbon Abatement. Advances in Environmental Engineering and Green Technologies Book Series, 2015, , 91-114.	0.3	0
538	Energy-Efficiency in a Cloud Computing Backbone. , 2015, , 266-288.		1
539	Computing Traffic Information in the Cloud. , 2015, , 1062-1079.		0
540	Communication Aspects of Resource Management in Hybrid Clouds. , 2015, , 1827-1851.		0
541	Carrier-Grade Distributed Cloud Computing. , 2015, , 1981-1998.		0
542	Forecasting the Trends in Cloud Computing and its Impact on Future IT Business. , 2015, , 2354-2372.		0
543	Green Cloud and reduction of energy consumption. Computer Engineering and Applications Journal, 2015, 4, 51-60.	0.2	0
544	Recent Trends towards Green Clouds by using Fuzzy based Live Migration. International Journal of Computer Applications, 2015, 113, 17-22.	0.2	1
545	An Efficient Approach of Power Consumption in Cloud using Scheduling of Resources. International Journal of Modern Education and Computer Science, 2015, 7, 60-66.	2.4	0
546	Scrutiny of Energy Efficiency for Green Cloud Computing. International Journal of Computer Applications, 2015, 121, 25-28.	0.2	0
547	AN INVESTIGATION OF ANTICIPATED BENEFITS OF CLOUD COMPUTING ADOPTION IN AUSTRALIAN REGIONAL MUNICIPAL GOVERNMENTS. Services Transactions on Cloud Computing, 2015, 3, 13-24.	0.1	1
548	Jordanians Perceptions Regarding E-Government Ethical Issues. International Journal of Civic Engagement and Social Change, 2015, 2, 16-33.	0.1	1
549	Optymalizacja uÅ¼ycia energii elektrycznej w sieciach chmury obliczeniowej Ruting jeden do jednego z wielu. , 2015, 1, 5-11.	0.0	0
550	New balancing technique for green cloud computing and environmental Sustainability. , 2015, , .		0
551	A Distributed WebGIS Platform based on SaaS Architecture. International Journal of U- and E- Service, Science and Technology, 2015, 8, 23-34.	0.1	0
552	Energy Aware Processor Architecture for Effective Scheduling and Power Management in Cloud Using Inclusive Power-Cognizant Processor Controller. Circuits and Systems, 2016, 07, 1822-1833.	0.1	0
553	Satellite Networking in the Context of Green, Flexible and Programmable Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 1-11.	0.2	2
554	Using a Cloud Computing Telemetry Service to Assess PaaS Setups. Lecture Notes in Computer Science, 2016, , 320-329.	1.0	0

#	Article	IF	Citations
555	Energy-Saving QoS Resource Management of Virtualized Networked Data Centers for Big Data Stream Computing. , 2016, , 848-886.		1
556	An Effective Energy Testing Framework for Cloud Workflow Activities. Communications in Computer and Information Science, 2016, , 89-105.	0.4	0
557	A Review on Secure and Energy Efficient Approaches for Green Computing. International Journal of Computer Applications, 2016, 138, 25-32.	0.2	6
558	Impact of Thresholds and Load Patterns when Executing HPC Applications with Cloud Elasticity. CLEI Electronic Journal, 0, , .	0.2	0
559	Impact of Energy-Efficient and Eco-Friendly Green Computing. International Journal of Computer Applications, 2016, 143, 20-28.	0.2	2
560	The QED Manifesto after Two Decades - Version 2.0. Journal of Software, 2016, 11, 803-815.	0.6	1
561	A green step towards computing: Green cloud computing. International Journal of Research Studies in Computing, 2016, 5, .	0.3	2
562	D2i2D: A Novel Secure Approach for Cloud Storage with Cost Minimization. Journal of Software, 2016, 11, 787-802.	0.6	0
563	Resource and Energy Efficient Virtual Machine Migration in Cloud Data Centers. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2017, , 210-238.	0.5	0
565	Fuzzy Resource Pre-processing and Compress and Join Gang Polling Evaluation Scheduling in Cloud Computing. International Journal of Intelligent Engineering and Systems, 2017, 10, 371-380.	0.8	1
566	Green Cloud Computing. Advances in Business Information Systems and Analytics Book Series, 2018, , 114-136.	0.3	0
567	Energy-Aware Computing for Infrastructure Clouds Using DVFS. SSRN Electronic Journal, 0, , .	0.4	1
568	Towards an Optimized Energy Consumption of Resources in Cloud Data Centers. Lecture Notes in Computer Science, 2018, , 179-185.	1.0	1
569	DBaaS Multitenancy, Auto-tuning and SLA Maintenance in Cloud Environments: a Brief Survey. ISys, 2018, 11, 30-42.	0.2	0
570	Queueing Analysis of Migration of Virtual Machines. Communications in Computer and Information Science, 2019, , 782-793.	0.4	0
571	A Survey on Load Balancing in Cloud Systems for Big Data Applications. Communications in Computer and Information Science, 2019, , 156-173.	0.4	2
572	STC: Exposing Hidden Compromised Devices in Networked Sustainable Green Smart Computing Platforms by Partial Observation. IEEE Transactions on Sustainable Computing, 2019, 4, 178-190.	2.2	1
573	Minutes to Midnight. , 2019, , 244-261.		0

#	Article	IF	Citations
574	1.5 Degrees of Separation. , 2019, , .		4
575	Power Consumption Reduction in IoT Devices Through Field-Programmable Gate Array with Nanobridge Switch. Lecture Notes in Networks and Systems, 2021, , 679-688.	0.5	4
576	Fog Computing for Efficient Predictive Analysis in Smart Grids. , 2021, , .		0
577	Mobile Cloud Computing Research â€“ Issues, Challenges and Needs. International Journal of Scientific Research in Computer Science Engineering and Information Technology, 2020, , 241-262.	0.2	0
578	Energy Efficiency in Optical Networks. Springer Handbooks, 2020, , 631-664.	0.3	1
580	Resource Scheduling and Load Balancing Fusion Algorithm with Deep Learning Based on Cloud Computing. , 2020, , 1042-1057.		0
581	From the Beginning to the Future. , 2020, , 17-31.		0
582	A Green Dynamic Internet of Things (IoT)-Battery Powered Things Aspect-Survey. Advances in Intelligent Systems and Computing, 2020, , 153-163.	0.5	3
583	AN ACCURATE POWER CONSUMPTION MODEL FOR CLOUD COMPUTING DATA CENTRES. , 2020, 04, 395-399.		0
584	Greening the Survivable Optical Networks. Advances in Environmental Engineering and Green Technologies Book Series, 0, , 256-286.	0.3	1
585	Carrier-Grade Distributed Cloud Computing. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 0, , 264-281.	0.5	1
586	Energy-Efficiency in a Cloud Computing Backbone. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 0, , 283-305.	0.5	0
587	Towards Energy Efficiency for Cloud Computing Services. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 0, , 306-328.	0.5	3
588	Communication Aspects of Resource Management in Hybrid Clouds. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 0, , 409-433.	0.5	0
589	The Future of AI-enabled servers in the cloud- A Survey. , 2021, , .		7
590	Developing sustainable tourism destinations through smart technologies: A system dynamics approach. Journal of Simulation, 2023, 17, 477-498.	1.0	15
591	Estimating the resource intensity of the Internet: A meta-model to account for cloud-based services in LCA. Procedia CIRP, 2022, 105, 80-85.	1.0	6
592	Service-Oriented Reliability Modeling and Autonomous Optimization of Reliability for Public Cloud Computing Systems. IEEE Transactions on Reliability, 2022, 71, 527-538.	3.5	6

#	Article	IF	Citations
593	Green Cloud Computing-To Build A Sustainable Tomorrow. , 2022, , .		2
594	Renewable energy source based quality of service (QoS)-aware routing mechanism in cloud network. Wireless Networks, 2022, 28, 1703-1718.	2.0	2
595	ESACR: An Energy Saving Approach from Cloud Resources for Green Cloud Environment. , 2021, , .		1
597	Achieving Efficient Data Deduplication and Key Aggregation Encryption System in Cloud. Smart Innovation, Systems and Technologies, 2022, , 328-340.	0.5	1
598	Investment decision in cloud gaming-based businesses opportunities: An analysis of the cloud gaming industry. , 2022, , .		2
599	Resource Allocation Scheduling Algorithm Based on Incomplete Information Dynamic Game for Edge Computing. , 2022, , 414-439.		0
600	Green Cloud? An Empirical Analysis of Cloud Computing and Energy Efficiency. Management Science, 2023, 69, 1639-1664.	2.4	13
601	Cloud Computing - An insight to latest trends and Developments. International Journal of Scientific Research in Computer Science Engineering and Information Technology, 2022, , 242-247.	0.2	0
602	Role of Cloud Computing for Improvement in Healthcare Services. International Journal of Recent Technology and Engineering, 2022, 11, 88-95.	0.2	0
604	Cloud resource management and scheduling. , 2023, , 293-347.		0
606	Cloud hardware and software. , 2023, , 95-134.		0
608	A green-aware optimization strategy for virtual machine migration in cloud data centers. , 2022, , .		1
609	IC Technologies and Systems for Green Future. , 2022, , .		1
610	A multi-objective quantum-inspired genetic algorithm for workflow healthcare application scheduling with hard and soft deadline constraints in hybrid clouds. Applied Soft Computing Journal, 2022, 128, 109440.	4.1	18
611	Strong and flame-retardant wood-based triboelectric nanogenerators toward self-powered building fire protection. Materials Today Physics, 2022, 27, 100798.	2.9	10
612	A Graph Theory Based Self-Learning Honeypot to Detect Persistent Threats. Intelligent Automation and Soft Computing, 2023, 35, 3331-3348.	1.6	1
613	Energy Efficient UAV-Based Service Offloading Over Cloud-Fog Architectures. IEEE Access, 2022, 10, 89598-89613.	2.6	5
614	Energy efficiency in cloud computing data centers: a survey on software technologies. Cluster Computing, 2023, 26, 1845-1875.	3.5	49

#	Article	IF	Citations
615	Green Library Research: A Bibliometric Analysis. Public Library Quarterly, 2023, 42, 424-443.	0.9	2
616	The use of digital technologies for landslide disaster risk research and disaster risk management: progress and prospects. Environmental Earth Sciences, 2022, 81, .	1.3	6
617	Renewable Energy with Energy-Efficient Distributed Processing for IoT. , 2022, , .		0
618	Energy Efficient Model for Balancing Energy in Cloud Datacenters Using Dynamic Voltage Frequency Scaling (DVFS) Technique. Lecture Notes in Networks and Systems, 2023, , 533-540.	0.5	1
619	In-network Placement of Reusable Computing Tasks in an SDN-based Network Edge. IEEE Transactions on Mobile Computing, 2023, , 1-16.	3.9	2
620	Corporate Social Reasonability Roles in Artificial Intelligence and Big Data Analytics in Management. Advances in Data Mining and Database Management Book Series, 2023, , 76-102.	0.4	0
621	A Survey on Energy Management Evolution and Techniques for Green IoT Environment. Lecture Notes in Electrical Engineering, 2023, , 155-165.	0.3	0
622	Green IoT: A Review and Future Research Directions. Symmetry, 2023, 15, 757.	1.1	27
623	PGA: A New Hybrid PSO and GA Method for Task Scheduling with Deadline Constraints in Distributed Computing. Mathematics, 2023, 11, 1548.	1.1	8
624	Hybrid FPFA based multi resources allocation in cloud computing. AIP Conference Proceedings, 2023, , .	0.3	0
625	Triboelectric nanogenerators as self-powered sensors for biometric authentication. Nanoscale, 2023, 15, 9635-9651.	2.8	2
626	Minimization of Energy Consumption in Cloud. , 2023, , .		0
629	Controlling Air Pollution in Data Centers using Green Data Centers. , 2023, , .		0
630	Towards a peer-to-peer residential short-term load forecasting with federated learning. , 2023, , .		0
631	Study on Green Cloud Computing-A Survey. , 2023, , .		0
634	When Carbon Footprint Meets Data Transportation in IoT Networks. , 2023, , .		0
635	A Novel Clustering Protocol Using Fuzzy Logic. , 2023, , .		0
636	An Exploratory Literature Study on Sharing and Energy Use of Language Models for Source Code. , 2023, , .		0

#	Article	IF	Citations
637	Design andÂFunctional Implementation ofÂGreen Data Center. Lecture Notes in Networks and Systems, 2024, , 327-341.	0.5	0
640	An In-Depth Survey on Environmental Sustainability: Mitigating Energy Footprints for an Advanced Future Outlook. , 2023, , .		0
641	Energy-Efficient Multi-Codec Bitrate-Ladder Estimation for Adaptive Video Streaming. , 2023, , .		0
642	Green Cloud Computing and the Related Security Threats. , 2023, , .		0
643	Achieving Green Sustainability in Computing Devices in Machine Learning and Deep Learning Techniques. Advances in Computational Intelligence and Robotics Book Series, 2024, , 172-186.	0.4	0