

# Zhengyu Yang

## List of Publications by Year in descending order

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26  
papers

474  
citations

1684188  
5  
h-index

1588992  
8  
g-index

26  
all docs

26  
docs citations

26  
times ranked

360  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerating big data applications using lightweight virtualization framework on enterprise cloud. , 2017, , .		45
2	Cyber-physical system enabled nearby traffic flow modelling for autonomous vehicles. , 2017, , .		41
3	FIM: Performance Prediction for Parallel Computation in Iterative Data Processing Applications. , 2017, , .		38
4	AutoTiering: Automatic data placement manager in multi-tier all-flash datacenter. , 2017, , .		34
5	Understanding performance of I/O intensive containerized applications for NVMe SSDs. , 2016, , .		33
6	Docker Container Scheduler for I/O Intensive Applications Running on NVMe SSDs. IEEE Transactions on Multi-Scale Computing Systems, 2018, 4, 313-326.	2.4	32
7	AutoReplica: Automatic data replica manager in distributed caching and data processing systems. , 2016, , .		27
8	Intermediate Data Caching Optimization for Multi-Stage and Parallel Big Data Frameworks. , 2018, , .		27
9	AutoPath: Harnessing Parallel Execution Paths for Efficient Resource Allocation in Multi-Stage Big Data Frameworks. , 2017, , .		25
10	Improving Virtual Machine Migration via Deduplication. , 2014, , .		22
11	A Fresh Perspective on Total Cost of Ownership Models for Flash Storage in Datacenters. , 2016, , .		22
12	GReM: Dynamic SSD resource allocation in virtualized storage systems with heterogeneous IO workloads. , 2016, , .		22
13	H-NVMe: A hybrid framework of NVMe-based storage system in cloud computing environment. , 2017, , .		15
14	A Review of Smart Materials in Tactile Actuators for Information Delivery. Journal of Carbon Research, 2017, 3, 38.	2.7	15
15	eSplash: Efficient speculation in large scale heterogeneous computing systems. , 2016, , .		14
16	Improving Flash Resource Utilization at Minimal Management Cost in Virtualized Flash-Based Storage Systems. IEEE Transactions on Cloud Computing, 2017, 5, 537-549.	4.4	14
17	EAD: elasticity aware deduplication manager for datacenters with multi-tier storage systems. Cluster Computing, 2018, 21, 1561-1579.	5.0	10
18	SEINA: A stealthy and effective internal attack in Hadoop systems. , 2017, , .		9

#	ARTICLE	IF	CITATIONS
19	FIOS: Feature Based I/O Stream Identification for Improving Endurance of Multi-Stream SSDs. , 2018, , .		9
20	Enhancing SSDs with multi-stream: What? why? how?. , 2017, , .		6
21	Pelletization Characteristics of the Hydrothermal Pretreated Rice Straw with Added Binders. Arabian Journal for Science and Engineering, 2018, 43, 4811-4820.	3.0	6
22	I/O Workload Management for All-Flash Datacenter Storage Systems Based on Total Cost of Ownership. IEEE Transactions on Big Data, 2022, 8, 332-345.	6.1	3
23	Bolt Detection Signal Analysis Method Based on ICEEMD. Shock and Vibration, 2018, 2018, 1-10.	0.6	3
24	New YARN Non-Exclusive Resource Management Scheme through Opportunistic Idle Resource Assignment. IEEE Transactions on Cloud Computing, 2021, 9, 696-709.	4.4	1
25	Understanding Flash-Based Storage I/O Behavior of Games. , 2021, , .		1
26	Corrigendum to "Bolt Detection Signal Analysis Method Based on ICEEMD" Shock and Vibration, 2021, 2021, 1-1.	0.6	0