

# Nick Mckeown

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12167805/publications.pdf>

Version: 2024-02-01

67  
papers

18,487  
citations

218677

26  
h-index

330143

37  
g-index

69  
all docs

69  
docs citations

69  
times ranked

7402  
citing authors

#	ARTICLE	IF	CITATIONS
1	OpenFlow. Computer Communication Review, 2008, 38, 69-74.	1.8	6,934
2	P4. Computer Communication Review, 2014, 44, 87-95.	1.8	1,871
3	A network in a laptop. , 2010, , .		1,357
4	NOX. Computer Communication Review, 2008, 38, 105-110.	1.8	1,154
5	Sizing router buffers. , 2004, , .		450
6	Forwarding metamorphosis. , 2013, , .		439
7	pFabric. , 2013, , .		409
8	Reproducible network experiments using container-based emulation. , 2012, , .		354
9	Ethane. Computer Communication Review, 2007, 37, 1-12.	1.8	329
10	Forwarding metamorphosis. Computer Communication Review, 2013, 43, 99-110.	1.8	318
11	Packet classification on multiple fields. Computer Communication Review, 1999, 29, 147-160.	1.8	277
12	Confused, timid, and unstable. , 2012, , .		262
13	pFabric. Computer Communication Review, 2013, 43, 435-446.	1.8	248
14	Why flow-completion time is the right metric for congestion control. Computer Communication Review, 2006, 36, 59-62.	1.8	227
15	OpenRoads. Computer Communication Review, 2010, 40, 125-126.	1.8	227
16	NetFPGA--An Open Platform for Gigabit-Rate Network Switching and Routing. , 2007, , .		222
17	The controller placement problem. Computer Communication Review, 2012, 42, 473-478.	1.8	205
18	Packet Transactions. , 2016, , .		193

#	ARTICLE	IF	CITATIONS
19	Rethinking Enterprise Network Control. IEEE/ACM Transactions on Networking, 2009, 17, 1270-1283.	3.8	178
20	Scaling internet routers using optics. , 2003, , .		177
21	Implementing an OpenFlow switch on the NetFPGA platform. , 2008, , .		171
22	Sizing router buffers. Computer Communication Review, 2004, 34, 281-292.	1.8	169
23	Carving research slices out of your production networks with OpenFlow. Computer Communication Review, 2010, 40, 129-130.	1.8	153
24	Programmable Packet Scheduling at Line Rate. , 2016, , .		146
25	Processor Sharing Flows in the Internet. Lecture Notes in Computer Science, 2005, , 271-285.	1.3	132
26	Blueprint for introducing innovation into wireless mobile networks. , 2010, , .		132
27	Maturing of OpenFlow and Software-defined Networking through deployments. Computer Networks, 2014, 61, 151-175.	5.1	129
28	PISCES. , 2016, , .		110
29	NetFPGAâ€”An Open Platform for Teaching How to Build Gigabit-Rate Network Switches and Routers. IEEE Transactions on Education, 2008, 51, 364-369.	2.4	107
30	p4v. , 2018, , .		78
31	Architecting for innovation. Computer Communication Review, 2011, 41, 24-36.	1.8	67
32	The P4&gt;NetFPGA Workflow for Line-Rate Packet Processing. , 2019, , .		65
33	Design principles for packet parsers. , 2013, , .		63
34	Outsourcing network functionality. , 2012, , .		60
35	Update on buffer sizing in internet routers. Computer Communication Review, 2006, 36, 67-70.	1.8	59
36	The Stanford OpenRoads deployment. , 2009, , .		58

#	ARTICLE	IF	CITATIONS
37	Experimental study of router buffer sizing. , 2008, , .		57
38	Deconstructing datacenter packet transport. , 2012, , .		52
39	High Speed Networks Need Proactive Congestion Control. , 2015, , .		48
40	RCP-AC: Congestion Control to Make Flows Complete Quickly in Any Environment. , 2006, , .		46
41	Stability Analysis of Explicit Congestion Control Protocols. IEEE Communications Letters, 2007, 11, 823-825.	4.1	45
42	Optical Packet Buffers for Backbone Internet Routers. IEEE/ACM Transactions on Networking, 2010, 18, 1599-1609.	3.8	43
43	Unifying Packet and Circuit Switched Networks. , 2009, , .		41
44	Integrated Photonics for Low-Power Packet Networking. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 458-471.	2.9	41
45	Learning Networking by Reproducing Research Results. Computer Communication Review, 2017, 47, 19-26.	1.8	39
46	Using deep programmability to put network owners in control. Computer Communication Review, 2020, 50, 82-88.	1.8	32
47	Rethinking IP Core Networks. Journal of Optical Communications and Networking, 2013, 5, 1431.	4.8	29
48	MPLS-TE and MPLS VPNS with openflow. Computer Communication Review, 2011, 41, 452-453.	1.8	25
49	Sizing router buffers (redux). Computer Communication Review, 2019, 49, 69-74.	1.8	23
50	Revitalizing the public internet by making it extensible. Computer Communication Review, 2021, 51, 18-24.	1.8	20
51	BeHop. Mobile Computing and Communications Review, 2015, 18, 71-80.	1.7	19
52	A simulation study of IP switching. Computer Communication Review, 1997, 27, 15-24.	1.8	16
53	Prototyping Fast, Simple, Secure Switches for Etha. , 2007, , .		15
54	From ethane to SDN and beyond. Computer Communication Review, 2019, 49, 92-95.	1.8	14

#	ARTICLE	IF	CITATIONS
55	Buffer sizing and Video QoE Measurements at Netflix. , 2019, , .		13
56	Obtaining High Throughput in Networks with Tiny Buffers. IEEE International Workshop on Quality of Service, 2008, , .	0.0	12
57	AppSwitch. , 2017, , .		12
58	Neutral Net Neutrality. , 2016, , .		11
59	Buffer sizing results for RCP congestion control under connection arrivals and departures. Computer Communication Review, 2008, 39, 5-15.	1.8	9
60	Updating the theory of buffer sizing. Performance Evaluation, 2021, 151, 102232.	1.2	8
61	Switches Know the Exact Amount of Congestion. , 2019, , .		8
62	Delivering capacity for the mobile internet by stitching together networks. , 2010, , .		7
63	Ripcord. Computer Communication Review, 2010, 40, 457-458.	1.8	7
64	Optimizing a virtualized data center. Computer Communication Review, 2011, 41, 478-479.	1.8	4
65	OpenPipes: Making distributed hardware systems easier. , 2010, , .		1
66	Frequency Stabilized Lasers for Coherent Fiber Interconnects in the Datacenter (Invited Talk). , 2019, , .		1
67	Prototyping Fast, Simple, Secure Switches for Etha. , 2007, , .		1