

# Christos Liaskos

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3004105/publications.pdf>

Version: 2024-02-01

86

papers

2,386

citations

394421

19

h-index

243625

44

g-index

87

all docs

87

docs citations

87

times ranked

1577

citing authors

#	ARTICLE	IF	CITATIONS
1	A New Wireless Communication Paradigm through Software-Controlled Metasurfaces. IEEE Communications Magazine, 2018, 56, 162-169.	6.1	799
2	Toward Intelligent Metasurfaces: The Progress from Globally Tunable Metasurfaces to Software-Defined Metasurfaces with an Embedded Network of Controllers. Advanced Optical Materials, 2020, 8, 2000783.	7.3	145
3	Using any surface to realize a new paradigm for wireless communications. Communications of the ACM, 2018, 61, 30-33.	4.5	89
4	Design and Development of Software Defined Metamaterials for Nanonetworks. IEEE Circuits and Systems Magazine, 2015, 15, 12-25.	2.3	84
5	A novel communication paradigm for high capacity and security via programmable indoor wireless environments in next generation wireless systems. Ad Hoc Networks, 2019, 87, 1-16.	5.5	80
6	A Multi-Functional Reconfigurable Metasurface: Electromagnetic Design Accounting for Fabrication Aspects. IEEE Transactions on Antennas and Propagation, 2021, 69, 1440-1454.	5.1	71
7	Realizing Wireless Communication Through Software-Defined HyperSurface Environments. , 2018, , .		70
8	Computing and Communications for the Software-Defined Metamaterial Paradigm: A Context Analysis. IEEE Access, 2017, 5, 6225-6235.	4.2	62
9	Programmable Metasurfaces: State of the Art and Prospects. , 2018, , .		49
10	CORONA. , 2015, , .		43
11	A novel framework for modeling and mitigating distributed link flooding attacks. , 2016, , .		42
12	On the Network-Layer Modeling and Configuration of Programmable Wireless Environments. IEEE/ACM Transactions on Networking, 2019, 27, 1696-1713.	3.8	41
13	Exploration of Intercell Wireless Millimeter-Wave Communication in the Landscape of Intelligent Metasurfaces. IEEE Access, 2019, 7, 122931-122948.	4.2	41
14	An Interpretable Neural Network for Configuring Programmable Wireless Environments. , 2019, , .		41
15	Packet routing in 3D nanonetworks: A lightweight, linear-path scheme. Nano Communication Networks, 2017, 12, 63-71.	2.9	37
16	Scalability Analysis of Programmable Metasurfaces for Beam Steering. IEEE Access, 2020, 8, 105320-105334.	4.2	36
17	On the Interplay of Link-Flooding Attacks and Traffic Engineering. Computer Communication Review, 2016, 46, 5-11.	1.8	33
18	Immersive Interconnected Virtual and Augmented Reality: A 5G and IoT Perspective. Journal of Network and Systems Management, 2020, 28, 796-826.	4.9	32

#	ARTICLE	IF	CITATIONS
19	A Promise of Realizable, Ultra-Scalable Communications at Nano-Scale: A Multi-Modal Nano-Machine Architecture. IEEE Transactions on Computers, 2015, 64, 1282-1295.	3.4	28
20	Intercell Wireless Communication in Software-defined Metasurfaces. , 2018, , .		28
21	Clustering-Driven Wireless Data Broadcasting. IEEE Wireless Communications, 2009, 16, 80-87.	9.0	27
22	Towards Realizable, Low-Cost Broadcast Systems for Dynamic Environments. IEEE/ACM Transactions on Networking, 2011, 19, 383-392.	3.8	26
23	On the Analytical Performance Optimization of Wireless Data Broadcasting. IEEE Transactions on Vehicular Technology, 2010, 59, 884-895.	6.3	25
24	Cost-Aware Wireless Data Broadcasting. IEEE Transactions on Broadcasting, 2010, 56, 66-76.	3.2	25
25	Lightweight, self-tuning data dissemination for dense nanonetworks. Nano Communication Networks, 2016, 8, 2-15.	2.9	24
26	End-to-End Wireless Path Deployment With Intelligent Surfaces Using Interpretable Neural Networks. IEEE Transactions on Communications, 2020, 68, 6792-6806.	7.8	21
27	Joint Compressed Sensing and Manipulation of Wireless Emissions with Intelligent Surfaces. , 2019, , .		19
28	Balancing Wireless Data Broadcasting and Information Hovering for Efficient Information Dissemination. IEEE Transactions on Broadcasting, 2012, 58, 66-76.	3.2	17
29	Network Topology Effects on the Detectability of Crossfire Attacks. IEEE Transactions on Information Forensics and Security, 2018, 13, 1682-1695.	6.9	17
30	A deployable routing system for nanonetworks. , 2016, , .		15
31	Radiation Pattern Prediction for Metasurfaces: A Neural Network-Based Approach. Sensors, 2021, 21, 2765.	3.8	15
32	Software-Defined Reconfigurable Intelligent Surfaces: From Theory to End-to-End Implementation. Proceedings of the IEEE, 2022, 110, 1466-1493.	21.3	15
33	Software-Defined Metasurface Paradigm: Concept, Challenges, Prospects. , 2018, , .		14
34	ABSense. , 2019, , .		14
35	On the Use of FDTD and Ray-Tracing Schemes in the Nanonetwork Environment. IEEE Communications Letters, 2014, 18, 1823-1826.	4.1	13
36	Fault Adaptive Routing in Metasurface Controller Networks. , 2018, , .		13

#	ARTICLE	IF	CITATIONS
37	Switched-Beam Graphene Plasmonic Nanoantenna in the Terahertz Wave Region. Plasmonics, 2021, 16, 1855-1864.	3.4	13
38	N3: Addressing and routing in 3D nanonetworks. , 2016, , .		12
39	Wideband Perfect Absorption Polarization Insensitive Reconfigurable Graphene Metasurface for THz Wireless Environment. , 2019, , .		12
40	Towards fault adaptive routing in metasurface controller networks. Journal of Systems Architecture, 2020, 106, 101703.	4.3	12
41	A novel protocol for network-controlled metasurfaces. , 2017, , .		12
42	Multifunctional Metasurface Architecture for Amplitude, Polarization and Wave-Front Control. Physical Review Applied, 2022, 17, .	3.8	12
43	Workload Characterization of Programmable Metasurfaces. , 2019, , .		11
44	Broadcast Scheduling With Multiple Concurrent Costs. IEEE Transactions on Broadcasting, 2012, 58, 178-186.	3.2	9
45	3D Channel Modeling and Characterization for Hypersurface Empowered Indoor Environment at 60 GHz Millimeter-Wave Band. , 2019, , .		9
46	Extremum Seeking Control for Beam Steering using Hypersurfaces. , 2020, , .		9
47	Stateless Linear-path Routing for 3D Nanonetworks. , 2016, , .		8
48	Service Ratio-Optimal, Content Coherence-Aware Data Push Systems. ACM Transactions on Management Information Systems, 2016, 6, 1-23.	2.8	7
49	Ultra lightweight adaptation processes for scheduling servers in push-based systems. , 2010, , .		6
50	Mobility-Aware Beam Steering in Metasurface-Based Programmable Wireless Environments. , 2020, , .		6
51	More for Less. Lecture Notes in Computer Science, 2012, , 64-75.	1.3	6
52	On the Use of Programmable Metasurfaces in Vehicular Networks. , 2021, , .		6
53	Computer assisted Sound Analysis of Arteriovenous Fistula in Hemodialysis Patients. International Journal of Artificial Organs, 2014, 37, 173-176.	1.4	5
54	Backpressure on the Backbone: A Lightweight, Non-Intrusive Traffic Engineering Approach. IEEE Transactions on Network and Service Management, 2017, 14, 176-190.	4.9	5

#	ARTICLE	IF	CITATIONS
55	Feedback Based Beam Steering for Intelligent Metasurfaces. , 2019, , .		5
56	Improving networked music performance systems using application-network collaboration. Concurrency Computation Practice and Experience, 2019, 31, e4730.	2.2	5
57	Graphene Hypersurface for Manipulation of THz Waves. Materials Science Forum, 2020, 1009, 63-68.	0.3	5
58	Realizing Ambient Backscatter Communications with Intelligent Surfaces in 6G Wireless Systems. IEEE Wireless Communications, 2022, 29, 178-185.	9.0	5
59	Parallel Data Broadcasting for Optimal Client Service Ratio. IEEE Communications Letters, 2012, 16, 1741-1743.	4.1	4
60	Generalizing the Square Root Rule for Optimal Periodic Scheduling in Push-Based Wireless Environments. IEEE Transactions on Computers, 2013, 62, 1044-1050.	3.4	4
61	PANDA. , 2013, , .		4
62	Application-network collaboration using SDN for ultra-low delay teleorchestras. , 2017, , .		4
63	Toward Fault-Tolerant Deadlock-Free Routing in HyperSurface-Embedded Controller Networks. IEEE Networking Letters, 2020, 2, 140-144.	1.9	4
64	Advanced Physical-layer Security as an App in Programmable Wireless Environments. , 2020, , .		4
65	Next Generation Connected Materials for Intelligent Energy Propagation in Multiphysics Systems. IEEE Communications Magazine, 2021, 59, 100-106.	6.1	4
66	Manufacturing of high frequency substrates as software programmable metasurfaces on PCBs with integrated controller nodes. , 2020, , .		4
67	An analytical approach to the design of wireless broadcast disks systems. , 2009, , .		3
68	The Socket Store: An app model for the application-network interaction. , 2017, , .		3
69	A new approach to the design of wireless data broadcasting systems: An analysis-based cost-effective scheme. , 2009, , .		2
70	Optimal Periodic Scheduling Under Multimodel Per-Item Constraints in Wireless Systems. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1071-1080.	2.9	2
71	A lightweight, non-intrusive approach for orchestrating autonomously-managed network elements. , 2015, , .		2
72	Nanoantennas design for THz communication. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
73	Information hovering: A new approach for performance acceleration of wireless push systems. , 2011, , .		1
74	Virtual laboratories on wireless communications: A contemporary, extensible approach. , 2012, , .		1
75	Entropy-Based Estimation of Client Preferences in Wireless Push Systems. IEEE Transactions on Communications, 2012, 60, 3899-3908.	7.8	1
76	Sensor Swarm query filtering: Heightened attack resilience for broadcast on-demand services. , 2013, , .		1
77	Minimal Wireless Broadcast Schedules for Multi-objective Pursuits. IEEE Transactions on Vehicular Technology, 2014, , 1-1.	6.3	1
78	On Data Compatibility and Broadcast Stream Formation. IEEE Transactions on Computers, 2014, 63, 2369-2375.	3.4	1
79	Fast and Fair Handling of Multimedia CAPTCHA Flows. International Journal of Interactive Mobile Technologies, 2015, 9, 64.	1.2	1
80	Workload Characterization and Traffic Analysis for Reconfigurable Intelligent Surfaces Within 6G Wireless Systems. IEEE Transactions on Mobile Computing, 2023, 22, 3079-3094.	5.8	1
81	End-to-end TCP-compatible Backpressure Routing. , 2022, , .		1
82	Combining optimal performance with cost-efficiency in adaptive wireless broadcast-based systems. , 2010, , .		0
83	Minimizing mean client serving time and broadcast schedule cost in wireless push systems. , 2011, , .		0
84	Enhancing the Trustworthiness of Service On-Demand Systems via Smart Vote Filtering. Lecture Notes in Computer Science, 2015, , 88-103.	1.3	0
85	Design, Fabrication, and Characterization of a Proof-of-Concept Multi-functional Microwave Metasurface using Static Loads. , 2021, , .		0
86	Fast-fair handling of flows. International Journal of Communication Networks and Distributed Systems, 2017, 18, 32.	0.4	0