Krishna Kant

List of Publications by Year
in descending order

77	1,888	304743 22	265206 42
papers	citations	h-index	g-index

80	80	80	2893
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Social Media Driven Big Data Analysis for Disaster Situation Awareness: A Tutorial. IEEE Transactions on Big Data, 2023, 9, 1-21.	6.1	2
2	Collaborative Machine Learning: Schemes, Robustness, and Privacy. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9625-9642.	11.3	2
3	Resource Efficient Edge Computing Infrastructure for Video Surveillance. IEEE Transactions on Sustainable Computing, 2022, 7, 774-785.	3.1	6
4	Performance Evaluation of Magnetic Resonance Coupling Method for Intra-Body Network (IBNet). IEEE Transactions on Biomedical Engineering, 2022, 69, 1901-1908.	4.2	4
5	Guest Editorial: Computational Intelligence for Human-in-the-Loop Cyber Physical Systems. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 2-5.	4.9	4
6	Characterization of Magnetic Communication Through Human Body. , 2022, , .		1
7	Gold Nanoparticles and Plant Pathogens: An Overview and Prospective for Biosensing in Forestry. Sensors, 2022, 22, 1259.	3.8	20
8	Recent Advances in Microfluidic Platform for Physical and Immunological Detection and Capture of Circulating Tumor Cells. Biosensors, 2022, 12, 220.	4.7	23
9	Performance Health Index for Complex Cyber Infrastructures. ACM Transactions on Modeling and Performance Evaluation of Computing Systems, 2022, 7, 1-32.	0.9	3
10	MagLoc: A magnetic induction based localization scheme for fresh food logistics. Internet of Things (Netherlands), 2022, 19, 100552.	7.7	0
11	Electrochemical Sensing in 3D Cell Culture Models: New Tools for Developing Better Cancer Diagnostics and Treatments. Cancers, 2021, 13, 1381.	3.7	18
12	Automating Conflict Detection and Mitigation in Large-Scale IoT Systems. , 2021, , .		3
13	Guest Editorial: Configuration Security for Industrial Automation and Control Systems. IEEE Transactions on Industrial Informatics, 2021, 17, 4206-4209.	11.3	0
14	DC-PoET: Proof-of-Elapsed-Time Consensus with Distributed Coordination for Blockchain Networks. , 2021, , .		9
15	Guest Editorial Advanced Sensing and Sensor Fusion for Intelligent Transportation Systems. IEEE Sensors Journal, 2021, 21, 15425-15426.	4.7	5
16	Guest Editorial Introduction to the Special Issue on Deep Learning Models for Safe and Secure Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4224-4229.	8.0	1
17	A Neighborhood Aware Caching and Interest Dissemination Scheme for Content Centric Networks. IEEE Transactions on Network and Service Management, 2021, 18, 3900-3917.	4.9	4
18	Provisioning Differentiated QoS for NVMe over Fabrics. , 2021, , .		2

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19	PLMC: A Predictable Tail Latency Mode Coordinator for Shared NVMe SSD with Multiple Hosts. , 2021, , .		2
20	PLM^{light}: Emulating Predictable Latency Mode in Regular SSDs. , 2021, , .		1
21	Corrections to â€œA Neighborhood Aware Caching and Interest Dissemination Scheme for Content Centric Networksâ€• IEEE Transactions on Network and Service Management, 2021, 18, 4888-4888.	4.9	0
22	NFMI: Near Field Magnetic Induction based communication. Computer Networks, 2020, 181, 107548.	5.1	13
23	A smart microfluidic platform for rapid multiplexed detection of foodborne pathogens. Food Control, 2020, 114, 107242.	5.5	20
24	On the Silent Perturbation of State Estimation in Smart Grid. IEEE Transactions on Industry Applications, 2020, , 1-1.	4.9	7
25	Smart Sensing, Communication, and Control in Perishable Food Supply Chain. ACM Transactions on Sensor Networks, 2020, 16, 1-41.	3.6	42
26	Efficient Big-Data Access: Taxonomy and a Comprehensive Survey. IEEE Transactions on Big Data, 2020, , 1-1.	6.1	4
27	Privacy and Security of Connected Vehicles in Intelligent Transportation System. , 2019, , .		32
28	NFMI: Connectivity for Short-Range IoT Applications. Computer, 2019, 52, 63-67.	1.1	18
29	Internet of Perishable Logistics: Building Smart Fresh Food Supply Chain Networks. IEEE Access, 2019, 7, 17675-17695.	4.2	41
30	Incremental Spatial Clustering for Spatial Big Crowd Data in Evolving Disaster Scenario. , 2019, , .		5
31	Microfluidics-Driven Fabrication of a Low Cost and Ultrasensitive SERS-Based Paper Biosensor. Applied Sciences (Switzerland), 2019, 9, 1387.	2.5	15
32	Experimental Evaluation of a Near-Field Magnetic Induction Based Communication System. , 2019, , .		10
33	Towards Building Low Power Magnetic Communication Protocols for Challenging Environments. , 2019, , .		4
34	Using Blockchain for Provenance and Traceability in Internet of Things-Integrated Food Logistics. Computer, 2019, 52, 94-98.	1.1	44
35	A lightweight integrity protection scheme for low latency smart grid applications. Computers and Security, 2019, 86, 471-483.	6.0	17
36	MicroRNA amplification and detection technologies: opportunities and challenges for point of care diagnostics. Laboratory Investigation, 2019, 99, 452-469.	3.7	146

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37	Rapid detection of Salmonella enterica in food samples by a novel approach with combination of sample concentration and direct PCR. Biosensors and Bioelectronics, 2019, 129, 224-230.	10.1	101
38	Solid Phase PCR on 3D Microstructure ArrayChip for Pathogen Detection Application. Bio-protocol, 2019, 9, e3323.	0.4	0
39	IoT-Based Sensing and Communications Infrastructure for the Fresh Food Supply Chain. Computer, 2018, 51, 76-80.	1.1	73
40	Opportunistic Power Savings with Coordinated Control in Data Center Networks. , 2018, , .		3
41	Microfluidic devices for sample preparation and rapid detection of foodborne pathogens. Biotechnology Advances, 2018, 36, 1003-1024.	11.7	136
42	Enhancing Disaster Situational Awareness via Automated Summary Dissemination of Social Media Content. , 2018, , .		3
43	A Framework for Misconfiguration Diagnosis in Interconnected Multiparty Systems. , 2018, , .		0
44	Targeted Reinforcement of Macrophage Reprogramming Toward M2 Polarization by IL-4-Loaded Hyaluronic Acid Particles. ACS Omega, 2018, 3, 18444-18455.	3.5	28
45	Surface-Enhanced Raman Scattering Spectroscopy and Microfluidics: Towards Ultrasensitive Label-Free Sensing. Biosensors, 2018, 8, 62.	4.7	36
46	Molecularly imprinted polymers for sample preparation and biosensing in food analysis: Progress and perspectives. Biosensors and Bioelectronics, 2017, 91, 606-615.	10.1	271
47	From 2D fluidic array screening to 3D bacterial capturing structures in a point of care system for sepsis diagnosis. , 2017, , .		0
48	NACID: A Neighborhood Aware Caching and Interest Dissemination in Content Centric Networks. , 2017, , .		2
49	Implementing data center network energy management capabilities in NS3. , 2017, , .		3
50	Magnetic Induction Based Sensing and Localization for Fresh Food Logistics. , 2017, , .		8
51	A Food Transportation Framework for an Efficient and Worker-Friendly Fresh Food Physical Internet. Logistics, 2017, 1, 10.	4.3	16
52	Advances in Nanoporous Materials. Journal of Nanomaterials, 2016, 2016, 1-2.	2.7	0
53	Smartporter: A Combined Perishable Food and People Transport Architecture in Smart Urban Areas. , 2016, , .		4
54	On the Feasibility of Distributed Sampling Rate Adaptation in Heterogeneous and Collaborative Wireless Sensor Networks. , 2016, , .		9

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55	Progressive recovery of interdependent services in enterprise data centers. , 2016, , .		0
56	Influence of surface chemistry on the ionic conductivity of vertically aligned carbon nanotube composite membranes. RSC Advances, 2016, 6, 44288-44296.	3.6	1
57	IP Address Consolidation and Reconfiguration in Enterprise Networks. , 2016, , .		0
58	Periodically tailored titania nanotubes for enhanced drug loading and releasing performances. Journal of Materials Chemistry B, 2015, 3, 2553-2559.	5.8	37
59	RODA: A reconfigurable optical data center network architecture. , 2015, , .		6
60	Microbial cell lysis and nucleic acid extraction via nanofluidic channel. RSC Advances, 2015, 5, 23886-23891.	3.6	4
61	Collaborative Heterogeneous Sensing: An Application to Contamination Detection in Water Distribution Networks. , 2015, , .		5
62	Water flow Driven Sensor Networks for leakage and contamination monitoring. , 2015, , .		5
63	The Influence of Nanopore Dimensions on the Electrochemical Properties of Nanopore Arrays Studied by Impedance Spectroscopy. Sensors, 2014, 14, 21316-21328.	3.8	22
64	Impedance nanopore biosensor: influence of pore dimensions on biosensing performance. Analyst, The, 2014, 139, 1134.	3.5	41
65	Characterization of impedance biosensing performance of single and nanopore arrays of anodic porous alumina fabricated by focused ion beam (FIB) milling. Electrochimica Acta, 2014, 139, 225-231.	5.2	15
66	Silicon diatom frustules as nanostructured photoelectrodes. Chemical Communications, 2014, 50, 10441.	4.1	55
67	Focused Ion Beam (FIB) Technology for Micro- and Nanoscale Fabrications. Lecture Notes in Nanoscale Science and Technology, 2013, , 1-22.	0.8	6
68	Gold nanotube membranes have catalytic properties. Microporous and Mesoporous Materials, 2012, 153, 131-136.	4.4	57
69	Self-ordering Electrochemistry: A Simple Approach for Engineering Nanopore and Nanotube Arrays for Emerging Applications. Australian Journal of Chemistry, 2011, 64, 294.	0.9	48
70	TEMPLATE SYNTHESIS OF NICKEL, COBALT, AND NICKEL HEXACYANOFERRATE NANODOT, NANOROD, AND NANOTUBE ARRAYS. International Journal of Nanoscience, 2011, 10, 1-6.	0.7	31
71	SELF-ORDERING ELECTROCHEMICAL SYNTHESIS OF TiO2 NANOTUBE ARRAYS: CONTROLLING THE NANOTUBE GEOMETRY AND THE GROWTH RATE. International Journal of Nanoscience, 2011, 10, 55-58.	0.7	8
72	Electrochemical synthesis of nickel hexacyanoferrate nanoarrays with dots, rods and nanotubes morphology using a porous alumina template. Electrochimica Acta, 2010, 55, 1829-1835.	5.2	29

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73	Tailoring the surface functionalities of titania nanotube arrays. Biomaterials, 2010, 31, 532-540.	11.4	184
74	Nanopore Gradients on Porous Aluminum Oxide Generated by Nonuniform Anodization of Aluminum. ACS Applied Materials & Interfaces, 2010, 2, 3447-3454.	8.0	39
75	Lowâ€energy Fe+ ion implantation into silicon nanostructures. , 2009, , .		2
76	A simple approach for synthesis of TiO₂nanotubes with throughâ€hole morphology. Physica Status Solidi - Rapid Research Letters, 2009, 3, 139-141.	2.4	70
77	A Biomicrofluidic Screening Platform for Dysfunctional Endotheliumâ€Targeted Nanoparticles and Therapeutics. Advanced NanoBiomed Research, 0, , 2100092.	3.6	1