

Krishna Kant

List of Publications by Year in descending order

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77
papers

1,888
citations

304743

22
h-index

265206

42
g-index

80
all docs

80
docs citations

80
times ranked

2893
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecularly imprinted polymers for sample preparation and biosensing in food analysis: Progress and perspectives. <i>Biosensors and Bioelectronics</i> , 2017, 91, 606-615.	10.1	271
2	Tailoring the surface functionalities of titania nanotube arrays. <i>Biomaterials</i> , 2010, 31, 532-540.	11.4	184
3	MicroRNA amplification and detection technologies: opportunities and challenges for point of care diagnostics. <i>Laboratory Investigation</i> , 2019, 99, 452-469.	3.7	146
4	Microfluidic devices for sample preparation and rapid detection of foodborne pathogens. <i>Biotechnology Advances</i> , 2018, 36, 1003-1024.	11.7	136
5	Rapid detection of <i>Salmonella enterica</i> in food samples by a novel approach with combination of sample concentration and direct PCR. <i>Biosensors and Bioelectronics</i> , 2019, 129, 224-230.	10.1	101
6	IoT-Based Sensing and Communications Infrastructure for the Fresh Food Supply Chain. <i>Computer</i> , 2018, 51, 76-80.	1.1	73
7	A simple approach for synthesis of TiO ₂ nanotubes with through-hole morphology. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009, 3, 139-141.	2.4	70
8	Gold nanotube membranes have catalytic properties. <i>Microporous and Mesoporous Materials</i> , 2012, 153, 131-136.	4.4	57
9	Silicon diatom frustules as nanostructured photoelectrodes. <i>Chemical Communications</i> , 2014, 50, 10441.	4.1	55
10	Self-ordering Electrochemistry: A Simple Approach for Engineering Nanopore and Nanotube Arrays for Emerging Applications. <i>Australian Journal of Chemistry</i> , 2011, 64, 294.	0.9	48
11	Using Blockchain for Provenance and Traceability in Internet of Things-Integrated Food Logistics. <i>Computer</i> , 2019, 52, 94-98.	1.1	44
12	Smart Sensing, Communication, and Control in Perishable Food Supply Chain. <i>ACM Transactions on Sensor Networks</i> , 2020, 16, 1-41.	3.6	42
13	Impedance nanopore biosensor: influence of pore dimensions on biosensing performance. <i>Analyst</i> , The, 2014, 139, 1134.	3.5	41
14	Internet of Perishable Logistics: Building Smart Fresh Food Supply Chain Networks. <i>IEEE Access</i> , 2019, 7, 17675-17695.	4.2	41
15	Nanopore Gradients on Porous Aluminum Oxide Generated by Nonuniform Anodization of Aluminum. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3447-3454.	8.0	39
16	Periodically tailored titania nanotubes for enhanced drug loading and releasing performances. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2553-2559.	5.8	37
17	Surface-Enhanced Raman Scattering Spectroscopy and Microfluidics: Towards Ultrasensitive Label-Free Sensing. <i>Biosensors</i> , 2018, 8, 62.	4.7	36
18	Privacy and Security of Connected Vehicles in Intelligent Transportation System. , 2019, , .		32

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19	TEMPLATE SYNTHESIS OF NICKEL, COBALT, AND NICKEL HEXACYANOFERRATE NANODOT, NANOROD, AND NANOTUBE ARRAYS. International Journal of Nanoscience, 2011, 10, 1-6.	0.7	31
20	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
21	Targeted Reinforcement of Macrophage Reprogramming Toward M2 Polarization by IL-4-Loaded Hyaluronic Acid Particles. ACS Omega, 2018, 3, 18444-18455.	3.5	28
22	Recent Advances in Microfluidic Platform for Physical and Immunological Detection and Capture of Circulating Tumor Cells. Biosensors, 2022, 12, 220.	4.7	23
23	The Influence of Nanopore Dimensions on the Electrochemical Properties of Nanopore Arrays Studied by Impedance Spectroscopy. Sensors, 2014, 14, 21316-21328.	3.8	22
24	A smart microfluidic platform for rapid multiplexed detection of foodborne pathogens. Food Control, 2020, 114, 107242.	5.5	20
25	Gold Nanoparticles and Plant Pathogens: An Overview and Prospective for Biosensing in Forestry. Sensors, 2022, 22, 1259.	3.8	20
26	NFMI: Connectivity for Short-Range IoT Applications. Computer, 2019, 52, 63-67.	1.1	18
27	Electrochemical Sensing in 3D Cell Culture Models: New Tools for Developing Better Cancer Diagnostics and Treatments. Cancers, 2021, 13, 1381.	3.7	18
28	A lightweight integrity protection scheme for low latency smart grid applications. Computers and Security, 2019, 86, 471-483.	6.0	17
29	A Food Transportation Framework for an Efficient and Worker-Friendly Fresh Food Physical Internet. Logistics, 2017, 1, 10.	4.3	16
30	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
31	Microfluidics-Driven Fabrication of a Low Cost and Ultrasensitive SERS-Based Paper Biosensor. Applied Sciences (Switzerland), 2019, 9, 1387.	2.5	15
32	NFMI: Near Field Magnetic Induction based communication. Computer Networks, 2020, 181, 107548.	5.1	13
33	Experimental Evaluation of a Near-Field Magnetic Induction Based Communication System. , 2019, , .		10
34	On the Feasibility of Distributed Sampling Rate Adaptation in Heterogeneous and Collaborative Wireless Sensor Networks. , 2016, , .		9
35	DC-PoET: Proof-of-Elapsed-Time Consensus with Distributed Coordination for Blockchain Networks. , 2021, , .		9
36	SELF-ORDERING ELECTROCHEMICAL SYNTHESIS OF TiO ₂ NANOTUBE ARRAYS: CONTROLLING THE NANOTUBE GEOMETRY AND THE GROWTH RATE. International Journal of Nanoscience, 2011, 10, 55-58.	0.7	8

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37	Magnetic Induction Based Sensing and Localization for Fresh Food Logistics. , 2017, , .		8
38	On the Silent Perturbation of State Estimation in Smart Grid. IEEE Transactions on Industry Applications, 2020, , 1-1.	4.9	7
39	Focused Ion Beam (FIB) Technology for Micro- and Nanoscale Fabrications. Lecture Notes in Nanoscale Science and Technology, 2013, , 1-22.	0.8	6
40	RODA: A reconfigurable optical data center network architecture. , 2015, , .		6
41	Resource Efficient Edge Computing Infrastructure for Video Surveillance. IEEE Transactions on Sustainable Computing, 2022, 7, 774-785.	3.1	6
42	Collaborative Heterogeneous Sensing: An Application to Contamination Detection in Water Distribution Networks. , 2015, , .		5
43	Water flow Driven Sensor Networks for leakage and contamination monitoring. , 2015, , .		5
44	Incremental Spatial Clustering for Spatial Big Crowd Data in Evolving Disaster Scenario. , 2019, , .		5
45	Guest Editorial Advanced Sensing and Sensor Fusion for Intelligent Transportation Systems. IEEE Sensors Journal, 2021, 21, 15425-15426.	4.7	5
46	Microbial cell lysis and nucleic acid extraction via nanofluidic channel. RSC Advances, 2015, 5, 23886-23891.	3.6	4
47	Smartporter: A Combined Perishable Food and People Transport Architecture in Smart Urban Areas. , 2016, , .		4
48	Towards Building Low Power Magnetic Communication Protocols for Challenging Environments. , 2019, , .		4
49	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
50	Efficient Big-Data Access: Taxonomy and a Comprehensive Survey. IEEE Transactions on Big Data, 2020, , 1-1.	6.1	4
51	Performance Evaluation of Magnetic Resonance Coupling Method for Intra-Body Network (IBNet). IEEE Transactions on Biomedical Engineering, 2022, 69, 1901-1908.	4.2	4
52	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
53	Implementing data center network energy management capabilities in NS3. , 2017, , .		3
54	Opportunistic Power Savings with Coordinated Control in Data Center Networks. , 2018, , .		3

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55	Enhancing Disaster Situational Awareness via Automated Summary Dissemination of Social Media Content. , 2018, , .		3
56	Automating Conflict Detection and Mitigation in Large-Scale IoT Systems. , 2021, , .		3
57	Performance Health Index for Complex Cyber Infrastructures. ACM Transactions on Modeling and Performance Evaluation of Computing Systems, 2022, 7, 1-32.	0.9	3
58	Low-energy Fe ⁺ ion implantation into silicon nanostructures. , 2009, , .		2
59	NACID: A Neighborhood Aware Caching and Interest Dissemination in Content Centric Networks. , 2017, , .		2
60	Provisioning Differentiated QoS for NVMe over Fabrics. , 2021, , .		2
61	PLMC: A Predictable Tail Latency Mode Coordinator for Shared NVMe SSD with Multiple Hosts. , 2021, , .		2
62	Social Media Driven Big Data Analysis for Disaster Situation Awareness: A Tutorial. IEEE Transactions on Big Data, 2023, 9, 1-21.	6.1	2
63	Collaborative Machine Learning: Schemes, Robustness, and Privacy. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9625-9642.	11.3	2
64	Influence of surface chemistry on the ionic conductivity of vertically aligned carbon nanotube composite membranes. RSC Advances, 2016, 6, 44288-44296.	3.6	1
65	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
66	A Biomicrofluidic Screening Platform for Dysfunctional Endothelium-Targeted Nanoparticles and Therapeutics. Advanced NanoBiomed Research, 0, , 2100092.	3.6	1
67	Characterization of Magnetic Communication Through Human Body. , 2022, , .		1
68	PLM ^{light} : Emulating Predictable Latency Mode in Regular SSDs. , 2021, , .		1
69	Advances in Nanoporous Materials. Journal of Nanomaterials, 2016, 2016, 1-2.	2.7	0
70	Progressive recovery of interdependent services in enterprise data centers. , 2016, , .		0
71	IP Address Consolidation and Reconfiguration in Enterprise Networks. , 2016, , .		0
72	From 2D fluidic array screening to 3D bacterial capturing structures in a point of care system for sepsis diagnosis. , 2017, , .		0

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73	A Framework for Misconfiguration Diagnosis in Interconnected Multiparty Systems. , 2018, , .		0
74	Guest Editorial: Configuration Security for Industrial Automation and Control Systems. IEEE Transactions on Industrial Informatics, 2021, 17, 4206-4209.	11.3	0
75	Solid Phase PCR on 3D Microstructure ArrayChip for Pathogen Detection Application. Bio-protocol, 2019, 9, e3323.	0.4	0
76	Corrections to "A Neighborhood Aware Caching and Interest Dissemination Scheme for Content Centric Networks" IEEE Transactions on Network and Service Management, 2021, 18, 4888-4888.	4.9	0
77	MagLoc: A magnetic induction based localization scheme for fresh food logistics. Internet of Things (Netherlands), 2022, 19, 100552.	7.7	0