

Amit Singh

List of Publications by Year in descending order

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Version: 2024-02-01

107
papers

3,413
citations

147801

31
h-index

168389

53
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127
all docs

127
docs citations

127
times ranked

4815
citing authors

#	ARTICLE	IF	CITATIONS
1	Heuristic-based opportunistic network coding at potential relays in multi-hop wireless networks. International Journal of Computers and Applications, 2023, 45, 124-135.	1.3	6
2	Mycobactin Analogues with Excellent Pharmacokinetic Profile Demonstrate Potent Antitubercular Specific Activity and Exceptional Efflux Pump Inhibition. Journal of Medicinal Chemistry, 2022, 65, 234-256.	6.4	11
3	Reliable Fluorometric Detection of SARS-CoV-2 by Targeting the G-Quadruplex through pH-Triggered Conformational Polymorphism. ACS Sensors, 2022, 7, 453-459.	7.8	11
4	A new blood-based RNA signature (R9), for monitoring effectiveness of tuberculosis treatment in a South Indian longitudinal cohort. IScience, 2022, 25, 103745.	4.1	1
5	Mycobacterium tuberculosis requires SufT for Fe-S cluster maturation, metabolism, and survival in vivo. PLoS Pathogens, 2022, 18, e1010475.	4.7	7
6	Postmitotic G1 phase survivin drives mitogen-independent cell division of B lymphocytes. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2115567119.	7.1	5
7	<i>S</i> -Adenosylmethionine-responsive cystathionine β -synthase modulates sulfur metabolism and redox balance in <i>Mycobacterium tuberculosis</i> . Science Advances, 2022, 8, .	10.3	10
8	Heterogeneous Host-Pathogen Encounters Coordinate Antibiotic Resilience in Mycobacterium tuberculosis. Trends in Microbiology, 2021, 29, 606-620.	7.7	10
9	SARS-CoV-2 RT-PCR profile in 298 Indian COVID-19 patients: a retrospective observational study. Pathogens and Disease, 2021, 79, .	2.0	6
10	Missed Lisfranc injuries—surgical vs conservative treatment. Irish Journal of Medical Science, 2021, 190, 653-656.	1.5	2
11	Comparative Study Of Various Approaches Of Dijkstra Algorithm. , 2021, , .		4
12	Mevo lectin specificity toward high-mannose structures with terminal β -Man(1,2) β -Man residues and its implication to inhibition of the entry of Mycobacterium tuberculosis into macrophages. Glycobiology, 2021, 31, 1046-1059.	2.5	3
13	Antioxidant nanozyme counteracts HIV-1 by modulating intracellular redox potential. EMBO Molecular Medicine, 2021, 13, e13314.	6.9	21
14	Immune Subtyping in Latent Tuberculosis. Frontiers in Immunology, 2021, 12, 595746.	4.8	8
15	Medium term outcome of Lancaster cortical window technique for extraction of femoral stem in revision hip arthroplasty. Journal of Orthopaedic Surgery and Research, 2021, 16, 314.	2.3	1
16	Exploring the Mystery of Angiotensin-Converting Enzyme II (ACE2) in the Battle against SARS-CoV-2. JRAAS - Journal of the Renin-Angiotensin-Aldosterone System, 2021, 2021, 1-5.	1.7	4
17	VB10, a new blood biomarker for differential diagnosis and recovery monitoring of acute viral and bacterial infections. EBioMedicine, 2021, 67, 103352.	6.1	15
18	The Multifaceted Bacterial Cysteine Desulfurases: From Metabolism to Pathogenesis. Antioxidants, 2021, 10, 997.	5.1	12

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19	A neuro-genetic Hopfield associative memory (HAM) with improved noise immunity. Materials Today: Proceedings, 2021, , .	1.8	0
20	Glycolysis downregulation is a hallmark of HIV-1 latency and sensitizes infected cells to oxidative stress. EMBO Molecular Medicine, 2021, 13, e13901.	6.9	30
21	Identification of COVID-19 prognostic markers and therapeutic targets through meta-analysis and validation of Omics data from nasopharyngeal samples. EBioMedicine, 2021, 70, 103525.	6.1	27
22	Mycobacterium tuberculosis SufR responds to nitric oxide via its 4Fe-4S cluster and regulates Fe-S cluster biogenesis for persistence in mice. Redox Biology, 2021, 46, 102062.	9.0	19
23	Rapid chromatographic immunoassay-based evaluation of COVID-19: A cross-sectional, diagnostic test accuracy study & its implications for COVID-19 management in India. Indian Journal of Medical Research, 2021, 153, 126.	1.0	37
24	Population ecology and habitat suitability modelling of Betula utilis D. Don in the sub-alpine ecosystem of Great Himalayan National Park, North-Western Indian Himalaya: a UNESCO World Heritage site. Proceedings of the Indian National Science Academy, 2021, 87, 640-656.	1.4	4
25	Hydrogen sulfide blocks HIV rebound by maintaining mitochondrial bioenergetics and redox homeostasis. ELife, 2021, 10, .	6.0	4
26	Low latency and energy efficient routing-aware network coding-based data transmission in multi-hop and multi-sink WSN. Ad Hoc Networks, 2020, 107, 102182.	5.5	33
27	Altered 3D chromatin structure permits inversional recombination at the <i>IgH</i> locus. Science Advances, 2020, 6, eaaz8850.	10.3	13
28	Structural and electrical properties of Al/BiFeO ₃ /ZrO ₂ /n-Si structure for non-volatile memory application. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	0
29	Lanthanum-doped BiFeO ₃ /ZrO ₂ gate stack for ferroelectric field effect transistors. Journal of Materials Science: Materials in Electronics, 2020, 31, 16189-16198.	2.2	2
30	A Multi-Pronged Computational Pipeline for Prioritizing Drug Target Strategies for Latent Tuberculosis. Frontiers in Chemistry, 2020, 8, 593497.	3.6	9
31	Mycobacterium tuberculosis (Mtb) lipid mediated lysosomal rewiring in infected macrophages modulates intracellular Mtb trafficking and survival. Journal of Biological Chemistry, 2020, 295, 9192-9210.	3.4	20
32	Comparative Studies of Electrical Properties of MFS and MIS Capacitors for Non-Volatile Memory Applications. , 2020, , .		1
33	Mycobacterium tuberculosis Reactivates HIV-1 via Exosome-Mediated Resetting of Cellular Redox Potential and Bioenergetics. MBio, 2020, 11, .	4.1	23
34	Diagnosis of Tuberculosis: Nanodiagnostics Approaches. , 2020, , 261-283.		15
35	Host sirtuin 2 as an immunotherapeutic target against tuberculosis. ELife, 2020, 9, .	6.0	41
36	Molecular Mechanisms of Drug Resistance in Mycobacterium tuberculosis: Role of Nanoparticles Against Multi-drug-Resistant Tuberculosis (MDR-TB). , 2020, , 285-314.		6

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37	Multi-band Hybrid Aperture-Cylindrical Dielectric Resonator Antenna for Wireless Applications. Lecture Notes in Networks and Systems, 2020, , 207-213.	0.7	1
38	Targeting redox heterogeneity to counteract drug tolerance in replicating <i>Mycobacterium tuberculosis</i> . Science Translational Medicine, 2019, 11, .	12.4	76
39	Comparison of simulation of ZnO+Nb2O5 with 5% doped V2O5 and ZnO+Nb2O5 in Cylindrical Dielectric Resonator Antenna for WLAN. , 2019, , .		0
40	Routing Techniques used for Monitoring the Linear Structures using Linear Wireless Sensor Networks: An Overview. , 2019, , .		5
41	Raman spectroscopy reveals distinct differences between two closely related bacterial strains, <i>Mycobacterium indicus pranii</i> and <i>Mycobacterium intracellulare</i> . Analytical and Bioanalytical Chemistry, 2019, 411, 7997-8009.	3.7	12
42	<i>Mycobacterium tuberculosis</i> WhiB3 maintains redox homeostasis and survival in response to reactive oxygen and nitrogen species. Free Radical Biology and Medicine, 2019, 131, 50-58.	2.9	52
43	Analysis, comparison, and significance of nested polymerase chain reaction with conventional methods for the diagnosis of pulmonary and extrapulmonary tuberculosis among the rural population of North India. CHRISMED Journal of Health and Research, 2019, 6, 146.	0.0	0
44	Hydrogen sulfide in physiology and pathogenesis of bacteria and viruses. IUBMB Life, 2018, 70, 393-410.	3.4	78
45	Multifaceted remodeling by vitamin C boosts sensitivity of <i>Mycobacterium tuberculosis</i> subpopulations to combination treatment by anti-tubercular drugs. Redox Biology, 2018, 15, 452-466.	9.0	39
46	Sequential Enhancer Sequestration Dysregulates Recombination Center Formation at the IgH Locus. Molecular Cell, 2018, 70, 21-33.e6.	9.7	35
47	Energy Efficient Optimal Path based coded transmission for multi-sink and multi-hop WSN. , 2018, , .		3
48	c-Abl-TWIST1 Epigenetically Dysregulate Inflammatory Responses during <i>Mycobacterial</i> Infection by Co-Regulating Bone Morphogenesis Protein and miR27a. Frontiers in Immunology, 2018, 9, 85.	4.8	22
49	Tuberculosis: Today's researchesâ€”tomorrow's therapies. IUBMB Life, 2018, 70, 814-817.	3.4	1
50	Phagosomal Copper-Promoted Oxidative Attack on Intracellular <i>Mycobacterium tuberculosis</i> . ACS Infectious Diseases, 2018, 4, 1623-1634.	3.8	27
51	Redox-dependent condensation of the mycobacterial nucleoid by WhiB4. Redox Biology, 2018, 19, 116-133.	9.0	20
52	Evaluation of NS1, IgM ELISA and RT-PCR in diagnosis of dengue fever. International Journal of Research in Medical Sciences, 2018, 6, 2440.	0.1	2
53	Prevalence of metallo-beta-lactamases (MBLS) producing <i>Pseudomonas aeruginosa</i> in hospitalized patients in rural tertiary care hospital in Uttar Pradesh, India. International Journal of Research in Medical Sciences, 2018, 6, 3099.	0.1	1
54	Laboratory confirmed miltefosine resistant cases of visceral leishmaniasis from India. Parasites and Vectors, 2017, 10, 49.	2.5	103

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55	Diagnostic usefulness of Xpert MTB/RIF assay for detection of tuberculous meningitis using cerebrospinal fluid. <i>Journal of Infection</i> , 2017, 75, 125-131.	3.3	53
56	“On demand” redox buffering by H ₂ S contributes to antibiotic resistance revealed by a bacteria-specific H ₂ S donor. <i>Chemical Science</i> , 2017, 8, 4967-4972.	7.4	89
57	Meta-analysis of host response networks identifies a common core in tuberculosis. <i>Npj Systems Biology and Applications</i> , 2017, 3, 4.	3.0	55
58	Evaluation of 5 Novel protein biomarkers for the rapid diagnosis of pulmonary and extra-pulmonary tuberculosis: preliminary results. <i>Scientific Reports</i> , 2017, 7, 44121.	3.3	18
59	Glycogen as Key Energy Storehouse and Possibly Responsible for Multidrug Resistance in <i>Mycobacterium tuberculosis</i> . , 2017, , 263-285.		4
60	Protein kinase G confers survival advantage to <i>Mycobacterium tuberculosis</i> during latency-like conditions. <i>Journal of Biological Chemistry</i> , 2017, 292, 16093-16108.	3.4	81
61	Visceral Leishmaniasis in Children: Diagnosis, Treatment, and Prevention. <i>Journal of Pediatric Infectious Diseases</i> , 2017, 12, 214-221.	0.2	4
62	Performance of Xpert MTB/RIF on Ascitic Fluid Samples for Detection of Abdominal Tuberculosis. <i>Journal of Laboratory Physicians</i> , 2017, 9, 047-052.	1.1	35
63	Efficacy of β -lactam/ β -lactamase inhibitor combination is linked to WhiB4-mediated changes in redox physiology of <i>Mycobacterium tuberculosis</i> . <i>ELife</i> , 2017, 6, .	6.0	50
64	Characterization, speciation and antimicrobial resistance pattern of <i>Enterococcus</i> species isolated from clinical specimens at a rural tertiary care hospital. <i>International Journal of Research in Medical Sciences</i> , 2017, 5, 3484.	0.1	3
65	Intelligent Cell Phone Detector System at 4g Bands Of Frequencies. <i>IOSR Journal of Electronics and Communication Engineering</i> , 2017, 12, 55-59.	0.1	1
66	Rapid identification and susceptibility pattern of various <i>Candida</i> isolates from different clinical specimens in a tertiary care hospital in Western Uttar Pradesh. <i>International Journal of Research in Medical Sciences</i> , 2017, 5, 3466.	0.1	0
67	Comparison of BACTEC MGIT with conventional methods for detection of <i>Mycobacteria</i> in clinically suspected patients of extra pulmonary tuberculosis in a tertiary care hospital. <i>International Journal of Research in Medical Sciences</i> , 2017, 5, 3530.	0.1	0
68	An Artificial Bee Colony-Based COPE Framework for Wireless Sensor Network. <i>Computers</i> , 2016, 5, 8.	3.3	4
69	MUSASHI-Mediated Expression of JMJD3, a H3K27me3 Demethylase, Is Involved in Foamy Macrophage Generation during <i>Mycobacterial</i> Infection. <i>PLoS Pathogens</i> , 2016, 12, e1005814.	4.7	50
70	Connected dominating set based network coding for SDN. , 2016, , .		2
71	Development of rapid immuno-diagnostic test for the early detection of tuberculosis. <i>International Journal of Mycobacteriology</i> , 2016, 5, S114-S115.	0.6	2
72	Comparative proteomic analysis of sequential isolates of <i>Mycobacterium tuberculosis</i> sensitive and resistant Beijing type from a patient with pulmonary tuberculosis. <i>International Journal of Mycobacteriology</i> , 2016, 5, S123-S124.	0.6	3

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73	Emerging Role and Characterization of Immunometabolism: Relevance to HIV Pathogenesis, Serious Non-AIDS Events, and a Cure. <i>Journal of Immunology</i> , 2016, 196, 4437-4444.	0.8	39
74	Identifying and Tackling Emergent Vulnerability in Drug-Resistant Mycobacteria. <i>ACS Infectious Diseases</i> , 2016, 2, 592-607.	3.8	34
75	Glucose Metabolism in T Cells and Monocytes: New Perspectives in HIV Pathogenesis. <i>EBioMedicine</i> , 2016, 6, 31-41.	6.1	96
76	Mycobacterium tuberculosis WhiB3 Responds to Vacuolar pH-induced Changes in Mycothiol Redox Potential to Modulate Phagosomal Maturation and Virulence. <i>Journal of Biological Chemistry</i> , 2016, 291, 2888-2903.	3.4	90
77	First-in-Class Inhibitors of Sulfur Metabolism with Bactericidal Activity against Non-Replicating <i>M. tuberculosis</i> . <i>ACS Chemical Biology</i> , 2016, 11, 172-184.	3.4	32
78	Application of in-house nested polymerase chain reaction for rapid diagnosis of tuberculous pleural effusion. <i>International Journal of Medical Research and Review</i> , 2016, 4, 723-730.	0.1	0
79	PREVALENCE AND RISK FACTORS OF BACTERIAL VAGINOSIS AMONG WOMEN OF REPRODUCTIVE AGE ATTENDING RURAL TERTIARY CARE INSTITUTE OF WESTERN UTTAR PRADESH. <i>Journal of Evolution of Medical and Dental Sciences</i> , 2016, 5, 2695-2701.	0.1	3
80	Mycobacterium tuberculosis Inhibits RAB7 Recruitment to Selectively Modulate Autophagy Flux in Macrophages. <i>Scientific Reports</i> , 2015, 5, 16320.	3.3	93
81	Xpert MTB/RIF assay can be used on archived gastric aspirate and induced sputum samples for sensitive diagnosis of paediatric tuberculosis. <i>BMC Microbiology</i> , 2015, 15, 191.	3.3	46
82	<i>De Novo</i> Whole-Genome Sequence and Annotation of a <i>Leishmania</i> Strain Isolated from a Case of Post-Kala-Azar Dermal Leishmaniasis. <i>Genome Announcements</i> , 2015, 3, .	0.8	13
83	Polyketide Quinones Are Alternate Intermediate Electron Carriers during Mycobacterial Respiration in Oxygen-Deficient Niches. <i>Molecular Cell</i> , 2015, 60, 637-650.	9.7	53
84	Measuring Glutathione Redox Potential of HIV-1-infected Macrophages. <i>Journal of Biological Chemistry</i> , 2015, 290, 1020-1038.	3.4	55
85	Mycobacterium tuberculosis has diminished capacity to counteract redox stress induced by elevated levels of endogenous superoxide. <i>Free Radical Biology and Medicine</i> , 2015, 84, 344-354.	2.9	68
86	Performance of Xpert MTB/RIF Assay in Diagnosis of Pleural Tuberculosis by Use of Pleural Fluid Samples. <i>Journal of Clinical Microbiology</i> , 2015, 53, 3636-3638.	3.9	39
87	Comparative proteomic analysis of sequential isolates of Mycobacterium tuberculosis from a patient with pulmonary tuberculosis turning from drug sensitive to multidrug resistant. <i>Indian Journal of Medical Research</i> , 2015, 141, 27.	1.0	44
88	Seroprevalence and Related Risk Factors of HBsAg, Anti-HCV and Anti-HIV Antibody Among Pregnant Women of Rural India. <i>Annals of Clinical Chemistry and Laboratory Medicine</i> , 2015, 1, 3-7.	0.2	0
89	A Toolbox for Tuberculosis (TB) Diagnosis: An Indian Multi-Centric Study (2006-2008); Evaluation of Serological Assays Based on PGL-Tb1 and ESAT-6/CFP10 Antigens for TB Diagnosis. <i>PLoS ONE</i> , 2014, 9, e96367.	2.5	12
90	Network coding: ABC based COPE in wireless sensor and Mesh network. , 2014, , .		3

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91	Reengineering Redox Sensitive GFP to Measure Mycothiol Redox Potential of Mycobacterium tuberculosis during Infection. PLoS Pathogens, 2014, 10, e1003902.	4.7	168
92	Comparison of Xpert MTB/RIF with Line Probe Assay for Detection of Rifampin-Monoresistant Mycobacterium tuberculosis. Journal of Clinical Microbiology, 2014, 52, 1846-1852.	3.9	120
93	Deciphering the sequential events during in vivo acquisition of drug resistance in Mycobacterium tuberculosis. International Journal of Mycobacteriology, 2014, 3, 36.	0.6	14
94	Anti-mycobacterial activity of plumericin and isoplumericin against MDR Mycobacterium tuberculosis. Pulmonary Pharmacology and Therapeutics, 2013, 26, 332-335.	2.6	30
95	A Toolbox for Tuberculosis (TB) Diagnosis: An Indian Multicentric Study (2006-2008). Evaluation of QuantiFERON-TB Gold in Tube for TB Diagnosis. PLoS ONE, 2013, 8, e73579.	2.5	15
96	Detection of Membrane Potential in Mycobacterium tuberculosis. Bio-protocol, 2013, 3, .	0.4	2
97	Mycobacterium Tuberculosis WhiB4 is a Redox Dependent Nucleoid Associated Protein. Free Radical Biology and Medicine, 2012, 53, S34-S35.	2.9	0
98	Mycobacterium tuberculosis WhiB4 regulates oxidative stress response to modulate survival and dissemination in vivo. Molecular Microbiology, 2012, 85, 1148-1165.	2.5	90
99	A Toolbox for Tuberculosis Diagnosis: An Indian Multicentric Study (2006-2008): Microbiological Results. PLoS ONE, 2012, 7, e43739.	2.5	12
100	Express Path Analysis Identifies a Tyrosine Kinase Src-centric Network Regulating Divergent Host Responses to Mycobacterium tuberculosis Infection. Journal of Biological Chemistry, 2011, 286, 40307-40319.	3.4	47
101	Reductive Stress in Microbes: Implications for Understanding Mycobacterium tuberculosis Disease and Persistence. Advances in Microbial Physiology, 2010, 57, 43-117.	2.4	52
102	Mycobacterium tuberculosis WhiB3 Maintains Redox Homeostasis by Regulating Virulence Lipid Anabolism to Modulate Macrophage Response. PLoS Pathogens, 2009, 5, e1000545.	4.7	253
103	Mycobacterium tuberculosis WhiB3 responds to O ₂ and nitric oxide via its [4Fe-4S] cluster and is essential for nutrient starvation survival. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11562-11567.	7.1	174
104	Dissecting virulence pathways of Mycobacterium tuberculosis through protein-protein association. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11346-11351.	7.1	148
105	Requirement of the mymA Operon for Appropriate Cell Wall Ultrastructure and Persistence of Mycobacterium tuberculosis in the Spleens of Guinea Pigs. Journal of Bacteriology, 2005, 187, 4173-4186.	2.2	101
106	mymA operon of Mycobacterium tuberculosis: its regulation and importance in the cell envelope. FEMS Microbiology Letters, 2003, 227, 53-63.	1.8	78
107	The wings of Bombyx mori develop from larval discs exhibiting an early differentiated state: a preliminary report. Journal of Biosciences, 2001, 26, 167-177.	1.1	22