

# Ashok Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

98  
papers

8,095  
citations

159585

30  
h-index

54911

84  
g-index

104  
all docs

104  
docs citations

104  
times ranked

17210  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Toll-like receptor 3 agonist poly(I:C)-induced antiviral response in human corneal epithelial cells. <i>Immunology</i> , 2006, 117, 11-21.	4.4	200
3	COVID-19-associated mucormycosis: An updated systematic review of literature. <i>Mycoses</i> , 2021, 64, 1452-1459.	4.0	185
4	Assessment of Neurotrophins and Inflammatory Mediators in Vitreous of Patients With Diabetic Retinopathy. , 2017, 58, 5594.		140
5	Herpes simplex virus 1 infection induces the expression of proinflammatory cytokines, interferons and TLR7 in human corneal epithelial cells. <i>Immunology</i> , 2006, 117, 167-176.	4.4	132
6	Toll-like receptor 2-mediated expression of $\beta$ -defensin-2 in human corneal epithelial cells. <i>Microbes and Infection</i> , 2006, 8, 380-389.	1.9	115
7	Innate Immune Response of Corneal Epithelial Cells to <i>Staphylococcus aureus</i> Infection: Role of Peptidoglycan in Stimulating Proinflammatory Cytokine Secretion. , 2004, 45, 3513.		110
8	Toll-Like Receptors and Corneal Innate Immunity. <i>Current Molecular Medicine</i> , 2006, 6, 327-337.	1.3	109
9	Zika virus infects cells lining the blood-retinal barrier and causes chorioretinal atrophy in mouse eyes. <i>JCI Insight</i> , 2017, 2, e92340.	5.0	104
10	Prevalence of SARS-CoV-2 in human post-mortem ocular tissues. <i>Ocular Surface</i> , 2021, 19, 322-329.	4.4	91
11	Toll-Like Receptor 2 Ligand Pretreatment Attenuates Retinal Microglial Inflammatory Response but Enhances Phagocytic Activity toward <i>Staphylococcus aureus</i> . <i>Infection and Immunity</i> , 2012, 80, 2076-2088.	2.2	80
12	ALP2 Regulates Refractive Error and Myopia Development in Mice and Humans. <i>PLoS Genetics</i> , 2015, 11, e1005432.	3.5	77
13	Intravitreal Injection of the Chimeric Phage Endolysin Ply187 Protects Mice from <i>Staphylococcus aureus</i> Endophthalmitis. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 4621-4629.	3.2	76
14	Untargeted Plasma Metabolomics Identifies Endogenous Metabolite with Drug-like Properties in Chronic Animal Model of Multiple Sclerosis. <i>Journal of Biological Chemistry</i> , 2015, 290, 30697-30712.	3.4	76
15	MicroRNA-146 Inhibits Thrombin-Induced NF- $\kappa$ B Activation and Subsequent Inflammatory Responses in Human Retinal Endothelial Cells. , 2014, 55, 4944.		75
16	Muller Glia in Retinal Innate Immunity: A Perspective on Their Roles in Endophthalmitis. <i>Critical Reviews in Immunology</i> , 2013, 33, 119-135.	0.5	72
17	Flagellin Suppresses the Inflammatory Response and Enhances Bacterial Clearance in a Murine Model of <i>Pseudomonas aeruginosa</i> Keratitis. <i>Infection and Immunity</i> , 2008, 76, 89-96.	2.2	70
18	Retinal Muller Glia Initiate Innate Response to Infectious Stimuli via Toll-Like Receptor Signaling. <i>PLoS ONE</i> , 2012, 7, e29830.	2.5	69

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19	Toll-Like Receptor 2 Ligand-Induced Protection against Bacterial Endophthalmitis. <i>Journal of Infectious Diseases</i> , 2010, 201, 255-263.	4.0	62
20	TLR2 Mediates the Innate Response of Retinal Muller Glia to <i>Staphylococcus aureus</i> . <i>Journal of Immunology</i> , 2011, 186, 7089-7097.	0.8	58
21	AMP-Activated Protein Kinase Restricts Zika Virus Replication in Endothelial Cells by Potentiating Innate Antiviral Responses and Inhibiting Glycolysis. <i>Journal of Immunology</i> , 2020, 204, 1810-1824.	0.8	58
22	Modulation of Corneal Epithelial Innate Immune Response to <i>Pseudomonas</i> Infection by Flagellin Pretreatment. , 2007, 48, 4664.		57
23	Catalase Therapy Corrects Oxidative Stress-Induced Pathophysiology in Incipient Diabetic Retinopathy. , 2015, 56, 3095.		55
24	<i>Staphylococcus aureus</i> lipoproteins trigger human corneal epithelial innate response through toll-like receptor-2. <i>Microbial Pathogenesis</i> , 2008, 44, 426-434.	2.9	54
25	Ocular Manifestations of Emerging Flaviviruses and the Blood-Retinal Barrier. <i>Viruses</i> , 2018, 10, 530.	3.3	49
26	Systemic diseases and the cornea. <i>Experimental Eye Research</i> , 2021, 204, 108455.	2.6	46
27	In Vivo Role of TLR2 and MyD88 Signaling in Eliciting Innate Immune Responses in Staphylococcal Endophthalmitis. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 1719-1732.	3.3	45
28	Topical flagellin protects the injured corneas from <i>Pseudomonas aeruginosa</i> infection. <i>Microbes and Infection</i> , 2010, 12, 978-989.	1.9	44
29	Role of <i>Staphylococcus aureus</i> Virulence Factors in Inducing Inflammation and Vascular Permeability in a Mouse Model of Bacterial Endophthalmitis. <i>PLoS ONE</i> , 2015, 10, e0128423.	2.5	44
30	Interferon-stimulated gene 15 (ISG15) restricts Zika virus replication in primary human corneal epithelial cells. <i>Ocular Surface</i> , 2019, 17, 551-559.	4.4	40
31	5-Aminoimidazole-4-carboxamide ribonucleoside-mediated adenosine monophosphate-activated protein kinase activation induces protective innate responses in bacterial endophthalmitis. <i>Cellular Microbiology</i> , 2016, 18, 1815-1830.	2.1	37
32	Determination of system level alterations in host transcriptome due to Zika virus (ZIKV) Infection in retinal pigment epithelium. <i>Scientific Reports</i> , 2018, 8, 11209.	3.3	37
33	Antibacterial responses of retinal Muller glia: production of antimicrobial peptides, oxidative burst and phagocytosis. <i>Journal of Neuroinflammation</i> , 2014, 11, 33.	7.2	36
34	<i>Staphylococcus aureus</i> protein A induced inflammatory response in human corneal epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2007, 354, 955-961.	2.1	34
35	Retinal Photoreceptor Expresses Toll-Like Receptors (TLRs) and Elicits Innate Responses Following TLR Ligand and Bacterial Challenge. <i>PLoS ONE</i> , 2015, 10, e0119541.	2.5	32
36	Occurrence of Multidrug Resistant Extended Spectrum Beta-Lactamase-Producing Bacteria on Iceberg Lettuce Retailed for Human Consumption. <i>BioMed Research International</i> , 2015, 2015, 1-10.	1.9	30

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37	Temporal retinal transcriptome and systems biology analysis identifies key pathways and hub genes in <i>Staphylococcus aureus</i> endophthalmitis. <i>Scientific Reports</i> , 2016, 6, 21502.	3.3	30
38	The Challenges of Anaesthesia and Pain Relief in Hip Fracture Care. <i>Drugs and Aging</i> , 2017, 34, 1-11.	2.7	30
39	Hippo Signaling Pathway Has a Critical Role in Zika Virus Replication and in the Pathogenesis of Neuroinflammation. <i>American Journal of Pathology</i> , 2020, 190, 844-861.	3.8	30
40	Diagnostic cut-offs, prevalence, and biochemical predictors of sarcopenia in healthy Indian adults: The Sarcopenia-Chandigarh Urban Bone Epidemiological Study (Sarco-CUBES). <i>European Geriatric Medicine</i> , 2020, 11, 725-736.	2.8	28
41	Zika Virus Infects Trabecular Meshwork and Causes Trabeculitis and Glaucomatous Pathology in Mouse Eyes. <i>MSphere</i> , 2019, 4, .	2.9	26
42	Matrix Metalloproteinase-13 as a Target for Suppressing Corneal Ulceration Caused by <i>Pseudomonas aeruginosa</i> Infection. <i>Journal of Infectious Diseases</i> , 2015, 212, 116-127.	4.0	25
43	AMP-Activated Protein Kinase Suppresses Autoimmune Central Nervous System Disease by Regulating M1-Type Macrophage- $\text{Th17}$ Axis. <i>Journal of Immunology</i> , 2016, 197, 747-760.	0.8	25
44	Blood-based untargeted metabolomics in relapsing-remitting multiple sclerosis revealed the testable therapeutic target. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	25
45	Isavuconazole for Treatment of Experimental Fungal Endophthalmitis Caused by <i>Aspergillus fumigatus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	23
46	Chronic Hepatitis C Virus Infection Impairs M1 Macrophage Differentiation and Contributes to CD8+ T-Cell Dysfunction. <i>Cells</i> , 2019, 8, 374.	4.1	23
47	Interferon Regulatory Factor-1 in Flagellin-Induced Reprogramming: Potential Protective Role of CXCL10 in Cornea Innate Defense Against <i>Pseudomonas aeruginosa</i> Infection. , 2013, 54, 7510.		22
48	Pathogenicity of Ocular Isolates of <i>Acinetobacter baumannii</i> in a Mouse Model of Bacterial Endophthalmitis. , 2014, 55, 2392.		22
49	Topical Tazarotene Gel, 0.1%, as a Novel Treatment Approach for Atrophic Postacne Scars. <i>JAMA Facial Plastic Surgery</i> , 2019, 21, 125-132.	2.1	22
50	Targeting toll-like receptor signaling as a novel approach to prevent ocular infectious diseases. <i>Indian Journal of Medical Research</i> , 2013, 138, 609-19.	1.0	22
51	Pathobiology of <i>Aspergillus Fumigatus</i> Endophthalmitis in Immunocompetent and Immunocompromised Mice. <i>Microorganisms</i> , 2019, 7, 297.	3.6	21
52	Prevalence of multiple antibiotic-resistant Gram-negative bacteria on bagged, ready-to-eat baby spinach. <i>International Journal of Environmental Health Research</i> , 2013, 23, 108-118.	2.7	20
53	Toll-like Receptor (TLR) Signaling Interacts with CREBH to Modulate High-density Lipoprotein (HDL) in Response to Bacterial Endotoxin. <i>Journal of Biological Chemistry</i> , 2016, 291, 23149-23158.	3.4	20
54	Integrative metabolomics and transcriptomics identifies itaconate as an adjunct therapy to treat ocular bacterial infection. <i>Cell Reports Medicine</i> , 2021, 2, 100277.	6.5	20

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55	SARS-CoV-2 and its beta variant of concern infect human conjunctival epithelial cells and induce differential antiviral innate immune response. <i>Ocular Surface</i> , 2022, 23, 184-194.	4.4	20
56	A comparative analysis of antibody repertoire against <i>Staphylococcus aureus</i> antigens in Patients with Deep-Seated versus Superficial staphylococcal Infections. <i>International Journal of Medical Sciences</i> , 2005, 2, 129-136.	2.5	20
57	Comparing azathioprine with cyclosporine in the treatment of antihistamine refractory chronic spontaneous urticaria: A randomized prospective active-controlled non-inferiority study. <i>World Allergy Organization Journal</i> , 2019, 12, 100033.	3.5	19
58	Glycolytic inhibitor 2-deoxyglucose suppresses inflammatory response in innate immune cells and experimental staphylococcal endophthalmitis. <i>Experimental Eye Research</i> , 2020, 197, 108079.	2.6	19
59	Differential remodeling of the electron transport chain is required to support TLR3 and TLR4 signaling and cytokine production in macrophages. <i>Scientific Reports</i> , 2019, 9, 18801.	3.3	18
60	Virulence Properties of Multidrug Resistant Ocular Isolates of <i>Acinetobacter baumannii</i> . <i>Current Eye Research</i> , 2014, 39, 695-704.	1.5	15
61	Quantitation of antibiotic resistance genes pollution in hospital waste water effluent and Urban Clinton River Water, Michigan, USA. <i>Current Medicine Research and Practice</i> , 2016, 6, 149-151.	0.1	15
62	TLR-4 Agonist Induces IFN- $\gamma$ Production Selectively in Proinflammatory Human M1 Macrophages through the PI3K-mTOR and JNK-MAPK Activated p70S6K Pathway. <i>Journal of Immunology</i> , 2021, 207, 2310-2324.	0.8	15
63	Impact of the COVID-19 Pandemic on Keratoplasty and Corneal Eye Banking. <i>Cornea</i> , 2021, 40, 1018-1023.	1.7	13
64	Toll-like receptor 2 (TLR2) engages endoplasmic reticulum stress sensor IRE1 $\alpha$ to regulate retinal innate responses in <i>Staphylococcus aureus</i> endophthalmitis. <i>FASEB Journal</i> , 2020, 34, 13826-13838.	0.5	11
65	Ageing, But Not Sex and Genetic Diversity, Impacts the Pathobiology of Bacterial Endophthalmitis. , 2020, 61, 5.		11
66	Occurrence of extended-spectrum $\beta$ -lactamase-producing bacteria in urban Clinton River habitat. <i>Journal of Global Antimicrobial Resistance</i> , 2019, 16, 225-235.	2.2	10
67	IFN- $\gamma$ Regulates Neutrophil Biology to Suppress Inflammation in Herpes Simplex Virus-1 Induced Corneal Immunopathology. <i>Journal of Immunology</i> , 2021, 206, 1866-1877.	0.8	10
68	Bacterial Burden Declines But Neutrophil Infiltration and Ocular Tissue Damage Persist in Experimental <i>Staphylococcus epidermidis</i> Endophthalmitis. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 780648.	3.9	10
69	Aerosol exposure enhanced infection of low pathogenic avian influenza viruses in chickens. <i>Transboundary and Emerging Diseases</i> , 2019, 66, 435-444.	3.0	9
70	Progressive outer retinal necrosis after rituximab and cyclophosphamide therapy. <i>Indian Journal of Ophthalmology</i> , 2018, 66, 591.	1.1	9
71	Mechanisms Underlying the Immune Response Generated by an Oral <i>Vibrio cholerae</i> Vaccine. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1062.	4.1	8
72	Vitreous D-Lactate Levels as a Biomarker in the Diagnosis of Presumed Infectious Culture Negative Endophthalmitis. <i>Current Eye Research</i> , 2020, 45, 184-189.	1.5	8

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73	Multidrug-Resistant <i>Pseudomonas aeruginosa</i> Evokes Differential Inflammatory Responses in Human Microglial and Retinal Pigment Epithelial Cells. <i>Microorganisms</i> , 2020, 8, 735.	3.6	8
74	Povidone-Iodine Attenuates Viral Replication in Ocular Cells: Implications for Ocular Transmission of RNA Viruses. <i>Biomolecules</i> , 2021, 11, 753.	4.0	8
75	Multidrug-Resistant <i>Pseudomonas aeruginosa</i> Triggers Differential Inflammatory Response in Patients With Endophthalmitis. <i>Translational Vision Science and Technology</i> , 2021, 10, 26.	2.2	8
76	Accuracy of intravitreal injection volume for aflibercept pre-filled syringe and BD Luer-Lok one-milliliter syringe. <i>International Journal of Retina and Vitreous</i> , 2022, 8, 27.	1.9	8
77	Essential Role of NLRP3 Inflammasome in Mediating IL-1 $\beta$ Production and the Pathobiology of <i>Staphylococcus aureus</i> Endophthalmitis. <i>Infection and Immunity</i> , 2022, 90, e0010322.	2.2	7
78	Analysis of genetic diversity among <i>Staphylococcus aureus</i> isolates from patients with deep-seated and superficial staphylococcal infections using pulsed-field gel electrophoresis. <i>Scandinavian Journal of Infectious Diseases</i> , 2006, 38, 418-426.	1.5	6
79	Efficacy of 0.01% low dose atropine and its correlation with various factors in myopia control in the Indian population. <i>Scientific Reports</i> , 2022, 12, 7113.	3.3	6
80	Zebrafish are Resistant to <i>Staphylococcus aureus</i> Endophthalmitis. <i>Pathogens</i> , 2019, 8, 207.	2.8	5
81	Evaluation of Susceptibility and Innate Immune Response in C57BL/6 and BALB/c Mice During <i>Candida albicans</i> Endophthalmitis. , 2020, 61, 31.		5
82	Clopidogrel response in ischemic stroke patients: Is polymorphism or gender more important? Results of the CRISP study. <i>Journal of Clinical Neuroscience</i> , 2020, 76, 81-86.	1.5	5
83	<i>Aspergillus</i> Endophthalmitis: Epidemiology, Pathobiology, and Current Treatments. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 656.	3.5	5
84	Role of RIPK1 in SMAC mimetics-induced apoptosis in primary human HIV-infected macrophages. <i>Scientific Reports</i> , 2021, 11, 22901.	3.3	4
85	Skill Development Regarding Use of Metered Dose Inhaler (MDI) Amongst School Teachers of Northern India. <i>Indian Journal of Pediatrics</i> , 2013, 80, 903-906.	0.8	3
86	The effect of chair-based pedal exercises for older people admitted to an acute hospital compared to standard care: a feasibility study. <i>Age and Ageing</i> , 2018, 47, 483-486.	1.6	3
87	Microglial Response to <i>Aspergillus flavus</i> and <i>Candida albicans</i> : Implications in Endophthalmitis. <i>Journal of Fungi (Basel, Switzerland)</i> , 2020, 6, 162.	3.5	3
88	Comprehensive Analysis to Uncover Determinants of Patient Appointment Compliance in Ophthalmology at the Kresge Eye Institute, USA. <i>Patient Preference and Adherence</i> , 2021, Volume 15, 589-600.	1.8	3
89	H9N2 avian influenza virus retained low pathogenicity after serial passage in chickens. <i>Canadian Journal of Veterinary Research</i> , 2018, 82, 131-138.	0.2	3
90	Causal relationship between D-dimers and disease status in chronic spontaneous urticaria and adjuvant effect of oral tranexamic acid. <i>Indian Dermatology Online Journal</i> , 2021, 12, 726-730.	0.5	2

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91	Association of culprit lesion plaque characteristics with flow restoration post-fibrinolysis in ST-segment elevation myocardial infarction: an intravascular ultrasound-virtual histology study. Egyptian Heart Journal, 2020, 72, 86.	1.2	2
92	Tele-Otolaryngology at a Tertiary Care Center in North India During COVID-19 Pandemic Lockdown: A Validated Patient Feedback Questionnaire Based Study. Indian Journal of Otolaryngology and Head and Neck Surgery, 2022, 74, 2985-2998.	0.9	1
93	Factors Predicting the Outcome of Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis: A 5-Year Retrospective Study. Indian Dermatology Online Journal, 2021, 12, 258-265.	0.5	1
94	Evaluation of plasma amyloid peptides A $\beta$ <sub>1-40</sub> and A $\beta$ <sub>1-42</sub> as diagnostic biomarker of alzheimer's disease, its association with different grades of clinical severity and 18f-fluorodeoxyglucose positron emission tomography Z score in the Indian population: A case-control study. Indian Journal of Nuclear Medicine, 2021, 36, 391.	0.3	1
95	Attitude and Perception of Nursing Personnel Involved in Real Time Remote Audio-Visual Aided (RT-RAVA) Monitoring of Doffing for the Prevention of Covid-19 Infection among the Health Care Workers. Hospital Topics, 2024, 102, 1-8.	0.5	1
96	Identification of novel genes involved in apoptosis of HIV-infected macrophages using unbiased genome-wide screening. BMC Infectious Diseases, 2021, 21, 655.	2.9	0
97	Perception and Attitude of Health Care Personnel Regarding Integration of Nursing Education and Nursing Services for Patient Care at a Tertiary Care Center of Northern India. Hospital Topics, 2023, 101, 175-183.	0.5	0
98	Intricacy of Mitochondrial Dynamics and Antiviral Response During RNA Virus Infection. Frontiers in Virology, 0, 2, .	1.4	0