

# Susu M Zughaier

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

8,177  
citations

159358  
30  
h-index

98622  
67  
g-index

87  
all docs

87  
docs citations

87  
times ranked

17416  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	Exploring the effect of image enhancement techniques on COVID-19 detection using chest X-ray images. Computers in Biology and Medicine, 2021, 132, 104319.	3.9	521
3	Cationic Antimicrobial Peptide Resistance in <i>Neisseria meningitidis</i> . Journal of Bacteriology, 2005, 187, 5387-5396.	1.0	209
4	Differential Induction of the Toll-Like Receptor 4-MyD88-Dependent and -Independent Signaling Pathways by Endotoxins. Infection and Immunity, 2005, 73, 2940-2950.	1.0	201
5	Incidence of macrolide resistance in <i>Streptococcus pneumoniae</i> after introduction of the pneumococcal conjugate vaccine: population-based assessment. Lancet, The, 2005, 365, 855-863.	6.3	170
6	<i>Neisseria meningitidis</i> Lipooligosaccharide Structure-Dependent Activation of the Macrophage CD14/Toll-Like Receptor 4 Pathway. Infection and Immunity, 2004, 72, 371-380.	1.0	144
7	Antimicrobial peptides and endotoxin inhibit cytokine and nitric oxide release but amplify respiratory burst response in human and murine macrophages. Cellular Microbiology, 2005, 7, 1251-1262.	1.1	111
8	The role of vitamin D in regulating the iron-hepcidin-ferroportin axis in monocytes. Journal of Clinical and Translational Endocrinology, 2014, 1, e19-e25.	1.0	111
9	Impact of vitamin D supplementation on markers of inflammation in adults with cystic fibrosis hospitalized for a pulmonary exacerbation. European Journal of Clinical Nutrition, 2012, 66, 1072-1074.	1.3	108
10	High-dose cholecalciferol reduces parathyroid hormone in patients with early chronic kidney disease: a pilot, randomized, double-blind, placebo-controlled trial. American Journal of Clinical Nutrition, 2012, 96, 672-679.	2.2	97
11	Lipopolysaccharide (LPS) from <i>Burkholderia cepacia</i> Is More Active than LPS from <i>Pseudomonas aeruginosa</i> and <i>Stenotrophomonas maltophilia</i> in Stimulating Tumor Necrosis Factor Alpha from Human Monocytes. Infection and Immunity, 1999, 67, 1505-1507.	1.0	92
12	High-dose vitamin D 3 reduces circulating hepcidin concentrations: A pilot, randomized, double-blind, placebo-controlled trial in healthy adults. Clinical Nutrition, 2017, 36, 980-985.	2.3	82
13	Microneedles: A New Generation Vaccine Delivery System. Micromachines, 2021, 12, 435.	1.4	82
14	Induction of Reactive Oxygen Species-mediated Autophagy by a Novel Microtubule-modulating Agent. Journal of Biological Chemistry, 2010, 285, 18737-18748.	1.6	80
15	A Melanin Pigment Purified from an Epidemic Strain of <i>Burkholderia cepacia</i> Attenuates Monocyte Respiratory Burst Activity by Scavenging Superoxide Anion. Infection and Immunity, 1999, 67, 908-913.	1.0	77
16	Pilot study of vitamin D supplementation in adults with cystic fibrosis pulmonary exacerbation. Dermato-Endocrinology, 2012, 4, 191-197.	1.9	74
17	Pyoverdine, the Major Siderophore in <i>Pseudomonas aeruginosa</i> , Evades NGAL Recognition. Interdisciplinary Perspectives on Infectious Diseases, 2012, 2012, 1-10.	0.6	69
18	Culture-free diagnostics of <i>Pseudomonas aeruginosa</i> infection by silver nanorod array based SERS from clinical sputum samples. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1863-1870.	1.7	65

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19	An Early Warning Tool for Predicting Mortality Risk of COVID-19 Patients Using Machine Learning. Cognitive Computation, 2021, , 1-16.	3.6	62
20	Lipooligosaccharide Structure Contributes to Multiple Steps in the Virulence of Neisseria meningitidis. Infection and Immunity, 2006, 74, 1360-1367.	1.0	60
21	Neisseria meningitidis capsular polysaccharides induce inflammatory responses via TLR2 and TLR4-MD-2. Journal of Leukocyte Biology, 2010, 89, 469-480.	1.5	57
22	Neisseria gonorrhoeae Modulates Iron-Limiting Innate Immune Defenses in Macrophages. PLoS ONE, 2014, 9, e87688.	1.1	52
23	Effects of high-dose cholecalciferol on serum markers of inflammation and immunity in patients with early chronic kidney disease. European Journal of Clinical Nutrition, 2013, 67, 264-269.	1.3	50
24	Hyperglycemia impedes lung bacterial clearance in a murine model of cystic fibrosis-related diabetes. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L43-L49.	1.3	49
25	Novel Whole-Cell Inactivated Neisseria Gonorrhoeae Microparticles as Vaccine Formulation in Microneedle-Based Transdermal Immunization. Vaccines, 2018, 6, 60.	2.1	43
26	High-Dose Vitamin D Administration Is Associated With Increases in Hemoglobin Concentrations in Mechanically Ventilated Critically Ill Adults: A Pilot Double-Blind, Randomized, Placebo-Controlled Trial. Journal of Parenteral and Enteral Nutrition, 2018, 42, 87-94.	1.3	42
27	Type III Group B Streptococcal Polysaccharide Induces Antibodies That Cross-React with Streptococcus pneumoniae Type 14. Infection and Immunity, 2002, 70, 1724-1738.	1.0	38
28	Vitamin D deficiency is associated with anaemia among African Americans in a US cohort. British Journal of Nutrition, 2015, 113, 1732-1740.	1.2	37
29	Potent Anti-Inflammatory Activity of Novel Microtubule-Modulating Brominated Noscapine Analogs. PLoS ONE, 2010, 5, e9165.	1.1	34
30	Hexa-acylation and KDO2-glycosylation determine the specific immunostimulatory activity of Neisseria meningitidis lipid A for human monocyte derived dendritic cells. Vaccine, 2006, 24, 1291-1297.	1.7	32
31	Editorial: Role of Iron in Bacterial Pathogenesis. Frontiers in Cellular and Infection Microbiology, 2018, 8, 344.	1.8	32
32	Mortality Prediction Utilizing Blood Biomarkers to Predict the Severity of COVID-19 Using Machine Learning Technique. Diagnostics, 2021, 11, 1582.	1.3	32
33	Human MD-2 discrimination of meningococcal lipid A structures and activation of TLR4. Glycobiology, 2007, 17, 847-856.	1.3	31
34	Enhanced Clearance of Pseudomonas aeruginosa by Peroxisome Proliferator-Activated Receptor Gamma. Infection and Immunity, 2016, 84, 1975-1985.	1.0	31
35	Development and Validation of an Early Scoring System for Prediction of Disease Severity in COVID-19 Using Complete Blood Count Parameters. IEEE Access, 2021, 9, 120422-120441.	2.6	29
36	The Human Host Defense Peptide LL-37 Interacts with Neisseria meningitidis Capsular Polysaccharides and Inhibits Inflammatory Mediators Release. PLoS ONE, 2010, 5, e13627.	1.1	28

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37	Vitamin D for the Immune System in Cystic Fibrosis (DISC): a double-blind, multicenter, randomized, placebo-controlled clinical trial. <i>American Journal of Clinical Nutrition</i> , 2019, 109, 544-553.	2.2	27
38	Transmigration across activated endothelium induces transcriptional changes, inhibits apoptosis, and decreases antimicrobial protein expression in human monocytes. <i>Journal of Leukocyte Biology</i> , 2009, 86, 1331-1343.	1.5	26
39	Inflammation and ER Stress Downregulate BDH2 Expression and Dysregulate Intracellular Iron in Macrophages. <i>Journal of Immunology Research</i> , 2014, 2014, 1-16.	0.9	26
40	TLR4-dependent adjuvant activity of <i>Neisseria meningitidis</i> lipid A. <i>Vaccine</i> , 2007, 25, 4401-4409.	1.7	24
41	Formulation of meningococcal capsular polysaccharide vaccine-loaded microparticles with robust innate immune recognition. <i>Journal of Microencapsulation</i> , 2013, 30, 28-41.	1.2	24
42	QCovSML: A reliable COVID-19 detection system using CBC biomarkers by a stacking machine learning model. <i>Computers in Biology and Medicine</i> , 2022, 143, 105284.	3.9	24
43	Phosphoethanolamine Modification of <i>Neisseria gonorrhoeae</i> Lipid A Reduces Autophagy Flux in Macrophages. <i>PLoS ONE</i> , 2015, 10, e0144347.	1.1	22
44	Evaluation of various adjuvant nanoparticulate formulations for meningococcal capsular polysaccharide-based vaccine. <i>Vaccine</i> , 2016, 34, 3260-3267.	1.7	20
45	Osteoinductive LIM mineralization protein-1 suppresses activation of NF- $\kappa$ B and selectively regulates MAPK pathways in pre-osteoclasts. <i>Bone</i> , 2010, 46, 1328-1335.	1.4	19
46	Peripheral Monocytes Derived from Patients with Cystic Fibrosis and Healthy Donors Secrete NGAL in Response to <i>Pseudomonas aeruginosa</i> Infection. <i>Journal of Investigative Medicine</i> , 2013, 61, 1018-1025.	0.7	19
47	Physicochemical characterization and biological activity of lipooligosaccharides and lipid A from <i>Neisseria meningitidis</i> . <i>Journal of Endotoxin Research</i> , 2007, 13, 343-357.	2.5	17
48	PCovNet: A presymptomatic COVID-19 detection framework using deep learning model using wearables data. <i>Computers in Biology and Medicine</i> , 2022, 147, 105682.	3.9	17
49	Induction of Death Receptor CD95 and Co-stimulatory Molecules CD80 and CD86 by Meningococcal Capsular Polysaccharide-Loaded Vaccine Nanoparticles. <i>AAPS Journal</i> , 2014, 16, 986-993.	2.2	15
50	The effects of first-line anti-tuberculosis drugs on the actions of vitamin D in human macrophages. <i>Journal of Clinical and Translational Endocrinology</i> , 2016, 6, 23-29.	1.0	15
51	Identification of a <i>Neisseria gonorrhoeae</i> Histone Deacetylase: Epigenetic Impact on Host Gene Expression. <i>Pathogens</i> , 2020, 9, 132.	1.2	14
52	QUCoughScope: An Intelligent Application to Detect COVID-19 Patients Using Cough and Breath Sounds. <i>Diagnostics</i> , 2022, 12, 920.	1.3	13
53	Differentiation and classification of bacterial endotoxins based on surface enhanced Raman scattering and advanced machine learning. <i>Nanoscale</i> , 2022, 14, 8806-8817.	2.8	13
54	The Vitamin D for Enhancing the Immune System in Cystic Fibrosis (DISC) trial: Rationale and design of a multi-center, double-blind, placebo-controlled trial of high dose bolus administration of vitamin D3 during acute pulmonary exacerbation of cystic fibrosis. <i>Contemporary Clinical Trials Communications</i> , 2017, 6, 39-45.	0.5	12

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55	The Role of Soluble Uric Acid in Modulating Autophagy Flux and Inflammasome Activation during Bacterial Infection in Macrophages. <i>Biomedicines</i> , 2020, 8, 598.	1.4	12
56	Serum 25-Hydroxyvitamin D Is Inversely Associated with Monocyte Percentage to HDL Cholesterol Ratio among Young Healthy Adults in Qatar. <i>Nutrients</i> , 2021, 13, 127.	1.7	12
57	COVID-19 Lesion Segmentation Using Lung CT Scan Images: Comparative Study Based on Active Contour Models. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8039.	1.3	11
58	Editorial: Immune-Modulatory Effects of Vitamin D. <i>Frontiers in Immunology</i> , 2020, 11, 596611.	2.2	10
59	Structure-Dependent Immune Modulatory Activity of Protegrin-1 Analogs. <i>Antibiotics</i> , 2014, 3, 694-713.	1.5	7
60	Highly Sensitive Detection and Differentiation of Endotoxins Derived from Bacterial Pathogens by Surface-Enhanced Raman Scattering. <i>Biosensors</i> , 2021, 11, 234.	2.3	7
61	Trends in Nonparenteral Delivery of Biologics, Vaccines and Cancer Therapies. , 2015, , 89-122.		5
62	Prevalence of asymptomatic hyperuricemia and its association with prediabetes, dyslipidemia and subclinical inflammation markers among young healthy adults in Qatar. <i>BMC Endocrine Disorders</i> , 2022, 22, 21.	0.9	5
63	Assessment of In Vitro Immunostimulatory Activity of an Adjuvanted Whole-Cell Inactivated <i>Neisseria gonorrhoeae</i> Microparticle Vaccine Formulation. <i>Vaccines</i> , 2022, 10, 983.	2.1	5
64	Analysis of novel meningococcal vaccine formulations. <i>Human Vaccines and Immunotherapeutics</i> , 2017, 13, 1728-1732.	1.4	3
65	Meningococcal Vaccines: Challenges and Prospects. <i>Vaccines</i> , 2020, 8, 738.	2.1	3
66	Rapid detection of <i>Pseudomonas aeruginosa</i> biomarkers in biological fluids using surface-enhanced Raman scattering. , 2014, , .		2
67	Assessment of the Role of Serum 25-Hydroxy Vitamin D Level on Coronary Heart Disease Risk With Stratification Among Patients With Type 2 Diabetes Mellitus. <i>Angiology</i> , 2021, 72, 86-92.	0.8	2
68	Oral Vaccine Delivery: The Coming Age of Particulate Vaccines to Elicit Mucosal Immunity. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2020, , 155-175.	0.2	2
69	Virtual Reality Module Depicting Catheter-Associated Urinary Tract Infection as Educational Tool to Reduce Antibiotic Resistant Hospital-Acquired Bacterial Infections. , 2020, , .		0
70	Development of an in-house COVID-19 serology ELISA Test. <i>Journal of Emergency Medicine, Trauma and Acute Care</i> , 2021, 2021, , .	0.1	0
71	Vitamin D Suppresses Hecpudin Expression In Macrophages. , 2013, , .		0
72	Effects of high-dose cholecalciferol on serum markers of inflammation and immunity in patients with early chronic kidney disease. <i>FASEB Journal</i> , 2013, 27, 46.3.	0.2	0

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73	Development of Non-Conjugated Meningitis Particulate Vaccine. , 2015, , 127-140.		0
74	NGAL Suppresses Immune Responses to Meningococcal Capsular Polysaccharide-Based Vaccine. International Journal of Vaccines & Vaccination, 2016, 2, .	0.3	0
75	Prevalence of Asymptomatic Hyperuricemia and its Association with Prediabetes, Dyslipidemia and Subclinical Inflammation Markers among Young Healthy Adults in Qatar. , 2021, , .		0
76	Pyocyanin pigment from Pseudomonas aeruginosa modulates innate immune defenses in macrophages. , 2021, , .		0
77	Rapid detection of bacterial infections using nanotechnology-based point-of-care sensor with Raman spectroscopy. Journal of Emergency Medicine, Trauma and Acute Care, 2020, 2020, .	0.1	0
78	Virtual Reality Module Depicting Catheter-Associated Urinary Tract Infection as Educational Tool to Reduce Antibiotic Resistant Hospital-Acquired Bacterial Infections. , 2020, , .		0
79	High Vaccine Coverage is Crucial for Preventing the Spread of Infectious Diseases During Mass Gathering. , 2020, , .		0
80	Antibacterial activity of Myrtus communis L. and Melaleuca leucadendron var. cajaputi essential oils against antibiotic-resistant bacterial strains. Journal of Emergency Medicine, Trauma and Acute Care, 2022, 2022, .	0.1	0
81	Staphylococcus aureus histone deacetylase-like enzyme is a potential target for adjuvant antibiotic discovery. Journal of Emergency Medicine, Trauma and Acute Care, 2022, 2022, .	0.1	0
82	The role of antibiotic resistance mobile genetic element MCR-1 in enhancing bacterial survival in macrophages. Journal of Emergency Medicine, Trauma and Acute Care, 2022, 2022, .	0.1	0