

# Longxiang Su

## List of Publications by Year in descending order

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Version: 2024-02-01

108  
papers

2,218  
citations

279798

23  
h-index

276875

41  
g-index

124  
all docs

124  
docs citations

124  
times ranked

3901  
citing authors

#	ARTICLE	IF	CITATIONS
1	Association between hospital and ICU structural factors and patient outcomes in China: a secondary analysis of the National Clinical Improvement System Data in 2019. <i>Critical Care</i> , 2022, 26, 24.	5.8	10
2	State of the Art of Machine Learning-Enabled Clinical Decision Support in Intensive Care Units: Literature Review. <i>JMIR Medical Informatics</i> , 2022, 10, e28781.	2.6	17
3	Using Procalcitonin to Guide Antibiotic Escalation in Patients With Suspected Bacterial Infection: A New Application of Procalcitonin in the Intensive Care Unit. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 844134.	3.9	2
4	Establishment and Implementation of Potential Fluid Therapy Balance Strategies for ICU Sepsis Patients Based on Reinforcement Learning. <i>Frontiers in Medicine</i> , 2022, 9, 766447.	2.6	3
5	Association Between Different DVT Prevention Methods and Outcomes of Septic Shock Caused by Intestinal Perforation in China: A Cross-Sectional Study. <i>Frontiers in Medicine</i> , 2022, 9, 878075.	2.6	2
6	TREM-1 promoted apoptosis and inhibited autophagy in LPS-treated HK-2 cells through the NF- $\kappa$ B pathway. <i>International Journal of Medical Sciences</i> , 2021, 18, 8-17.	2.5	20
7	Compliance with the Surviving Sepsis Campaign guideline 1-hour bundle for septic shock in China in 2018. <i>Annals of Translational Medicine</i> , 2021, 9, 278-278.	1.7	8
8	Vimentin regulation of autophagy activation in lung fibroblasts in response to lipopolysaccharide exposure in vitro. <i>Annals of Translational Medicine</i> , 2021, 9, 304-304.	1.7	5
9	Analysis of structure indicators influencing 3-h and 6-h compliance with the surviving sepsis campaign guidelines in China: a systematic review. <i>European Journal of Medical Research</i> , 2021, 26, 27.	2.2	3
10	Stepwise lactate kinetics in critically ill patients: prognostic, influencing factors, and clinical phenotype. <i>BMC Anesthesiology</i> , 2021, 21, 86.	1.8	1
11	Noninvasive Real-Time Mortality Prediction in Intensive Care Units Based on Gradient Boosting Method: Model Development and Validation Study. <i>JMIR Medical Informatics</i> , 2021, 9, e23888.	2.6	2
12	A Clinical Prediction Model to Predict Heparin Treatment Outcomes and Provide Dosage Recommendations: Development and Validation Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e27118.	4.3	6
13	Mean airway pressure has the potential to become the core pressure indicator of mechanical ventilation: Raising to the front from behind the clinical scenes. <i>Journal of Intensive Medicine</i> , 2021, 1, 96-98.	2.1	6
14	Early Prediction of Mortality, Severity, and Length of Stay in the Intensive Care Unit of Sepsis Patients Based on Sepsis 3.0 by Machine Learning Models. <i>Frontiers in Medicine</i> , 2021, 8, 664966.	2.6	23
15	Selection strategy for sedation depth in critically ill patients on mechanical ventilation. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 79.	3.0	3
16	Early warning of citric acid overdose and timely adjustment of regional citrate anticoagulation based on machine learning methods. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 126.	3.0	9
17	FUNDC1 Regulates Autophagy by Inhibiting ROS-NLRP3 Signaling to Avoid Apoptosis in the Lung in a Lipopolysaccharide-Induced Mouse Model. <i>Shock</i> , 2021, 56, 773-781.	2.1	8
18	Shock in China 2018 (SIC-study): a cross-sectional survey. <i>Annals of Translational Medicine</i> , 2021, 9, 1219-1219.	1.7	3

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19	The Risk Factors for Weaning Failure of Mechanically Ventilated Patients With COVID-19: A Retrospective Study in National Medical Team Work. <i>Frontiers in Medicine</i> , 2021, 8, 678157.	2.6	5
20	Recognizing blood pressure patterns in sedated critically ill patients on mechanical ventilation by spectral clustering. <i>Annals of Translational Medicine</i> , 2021, 9, 1404-1404.	1.7	2
21	Negative central venous to arterial lactate gradient in patients receiving vasopressors is associated with higher ICU 30-day mortality: a retrospective cohort study. <i>BMC Anesthesiology</i> , 2021, 21, 25.	1.8	1
22	The Availability and Safety Study of Remimazolam Besylate for Injection on Sedation of ERAS Patients Under Mechanical Ventilation in ICU: Protocol for a Randomized, Open-Label, Controlled Trial. <i>Frontiers in Medicine</i> , 2021, 8, 735473.	2.6	6
23	Editorial: Coronavirus Disease (COVID-19): Pathophysiology, Epidemiology, Clinical Management and Public Health Response. <i>Frontiers in Public Health</i> , 2021, 9, 807159.	2.7	2
24	PPV May Be a Starting Point to Achieve Circulatory Protective Mechanical Ventilation. <i>Frontiers in Medicine</i> , 2021, 8, 745164.	2.6	1
25	Editorial: Clinical Application of Artificial Intelligence in Emergency and Critical Care Medicine, Volume I. <i>Frontiers in Medicine</i> , 2021, 8, 809478.	2.6	1
26	Microcirculation-guided protection strategy in hemodynamic therapy. <i>Clinical Hemorheology and Microcirculation</i> , 2020, 75, 243-253.	1.7	10
27	Five novel clinical phenotypes for critically ill patients with mechanical ventilation in intensive care units: a retrospective and multi database study. <i>Respiratory Research</i> , 2020, 21, 325.	3.6	15
28	IP-10 and MCP-1 as biomarkers associated with disease severity of COVID-19. <i>Molecular Medicine</i> , 2020, 26, 97.	4.4	196
29	Effects of a national quality improvement program on ICUs in China: a controlled pre-post cohort study in 586 hospitals. <i>Critical Care</i> , 2020, 24, 73.	5.8	14
30	Clinical Multi-Omics Study on the Gut Microbiota in Critically Ill Patients After Cardiovascular Surgery Combined With Cardiopulmonary Bypass With or Without Sepsis (MUL-GM-CSCP Study): A Prospective Study Protocol. <i>Frontiers in Medicine</i> , 2020, 7, 269.	2.6	8
31	Correlation between cytokines and coagulation-related parameters in patients with coronavirus disease 2019 admitted to ICU. <i>Clinica Chimica Acta</i> , 2020, 510, 47-53.	1.1	18
32	Effects of Quality Control Targets (SpO <sub>2</sub> ≥100%, PaCO <sub>2</sub> <40 mmHg, P <sub>mean</sub> >10 cmH <sub>2</sub> O) on Outcomes in Patients in the ICU. <i>Frontiers in Medicine</i> , 2020, 7, 111.	2.6	4
33	Evaluation of the Secondary Transmission Pattern and Epidemic Prediction of COVID-19 in the Four Metropolitan Areas of China. <i>Frontiers in Medicine</i> , 2020, 7, 171.	2.6	30
34	Classification of the Gut Microbiota of Patients in Intensive Care Units During Development of Sepsis and Septic Shock. <i>Genomics, Proteomics and Bioinformatics</i> , 2020, 18, 696-707.	6.9	29
35	Outcomes of VA-ECMO with and without Left Centricular (LV) Decompression Using Intra-Aortic Balloon Pumping (IABP) versus Other LV Decompression Techniques: A Systematic Review and Meta-Analysis. <i>Medical Science Monitor</i> , 2020, 26, e924009.	1.1	7
36	Toward Optimal Heparin Dosing by Comparing Multiple Machine Learning Methods: Retrospective Study. <i>JMIR Medical Informatics</i> , 2020, 8, e17648.	2.6	17

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37	Prognostic Assessment of COVID-19 in the Intensive Care Unit by Machine Learning Methods: Model Development and Validation. <i>Journal of Medical Internet Research</i> , 2020, 22, e23128.	4.3	90
38	Association Between Doppler Snuffbox Resistive Index and Tissue Perfusion in Septic Patients. <i>Shock</i> , 2020, 54, 723-730.	2.1	3
39	Central Venous Pressure (CVP) Reduction Associated With Higher Cardiac Output (CO) Favors Good Prognosis of Circulatory Shock: A Single-Center, Retrospective Cohort Study. <i>Frontiers in Medicine</i> , 2019, 6, 216.	2.6	10
40	Effects of high PEEP and fluid administration on systemic circulation, pulmonary microcirculation, and alveoli in a canine model. <i>Journal of Applied Physiology</i> , 2019, 127, 40-46.	2.5	8
41	Role of vimentin in modulating immune cell apoptosis and inflammatory responses in sepsis. <i>Scientific Reports</i> , 2019, 9, 5747.	3.3	40
42	The Effect of Mechanical Ventilation on Peripheral Perfusion Index and Its Association With the Prognosis of Critically Ill Patients. <i>Critical Care Medicine</i> , 2019, 47, 685-690.	0.9	19
43	Myocardial strain/stress changes identified by echocardiography may reveal early sepsis-induced myocardial dysfunction. <i>Journal of International Medical Research</i> , 2018, 46, 1439-1454.	1.0	9
44	Relationship between inferior vena cava diameter ratio and central venous pressure. <i>Journal of Clinical Ultrasound</i> , 2018, 46, 450-454.	0.8	4
45	Fondaparinux in a critically ill patient with heparin-induced thrombocytopenia. <i>Medicine (United Tj ETQq1 1 0.784314 rgBT /Overlock</i>	1.0	4
46	mTOR modulates CD8+ T cell differentiation in mice with invasive pulmonary aspergillosis. <i>Open Life Sciences</i> , 2018, 13, 129-136.	1.4	3
47	P(v-a)CO <sub>2</sub> /C(a-v)O <sub>2</sub> -directed resuscitation does not improve prognosis compared with SvO <sub>2</sub> in severe sepsis and septic shock: A prospective multicenter randomized controlled clinical study. <i>Journal of Critical Care</i> , 2018, 48, 314-320.	2.2	13
48	Inhibition of the mTOR Pathway Exerts Cardioprotective Effects Partly through Autophagy in CLP Rats. <i>Mediators of Inflammation</i> , 2018, 2018, 1-9.	3.0	22
49	Melatonin Balance the Autophagy and Apoptosis by Regulating UCP2 in the LPS-Induced Cardiomyopathy. <i>Molecules</i> , 2018, 23, 675.	3.8	65
50	Initial therapeutic strategy of invasive candidiasis for intensive care unit patients: a retrospective analysis from the China-SCAN study. <i>BMC Infectious Diseases</i> , 2017, 17, 93.	2.9	5
51	Use of stepwise lactate kinetics-oriented hemodynamic therapy could improve the clinical outcomes of patients with sepsis-associated hyperlactatemia. <i>Critical Care</i> , 2017, 21, 33.	5.8	39
52	Elevated Mean Airway Pressure and Central Venous Pressure in the First Day of Mechanical Ventilation Indicated Poor Outcome. <i>Critical Care Medicine</i> , 2017, 45, e485-e492.	0.9	28
53	No effect of artificial gravity on lung function with exercise training during head-down bed rest-Retractation. <i>International Journal of Astrobiology</i> , 2017, 16, 200-200.	1.6	0
54	The correlation between CVP-derived parameters and the prognosis of critically ill patients. <i>Journal of Critical Care</i> , 2017, 40, 257-264.	2.2	14

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55	The authors reply. <i>Critical Care Medicine</i> , 2017, 45, e1204-e1205.	0.9	0
56	The authors reply. <i>Critical Care Medicine</i> , 2017, 45, e739-e740.	0.9	1
57	IL-12 Influence mTOR to Modulate CD8 <sup>+</sup> T Cells Differentiation through T-bet and Eomesodermin in Response to Invasive Pulmonary Aspergillosis. <i>International Journal of Medical Sciences</i> , 2017, 14, 977-983.	2.5	8
58	Response to: Understanding the null hypothesis (H0) in non-inferiority trials. <i>Critical Care</i> , 2017, 21, 201.	5.8	0
59	Lactate and stepwise lactate kinetics can be used to guide resuscitation. <i>Critical Care</i> , 2017, 21, 267.	5.8	2
60	No effect of artificial gravity on lung function with exercise training during head-down bed rest. <i>International Journal of Astrobiology</i> , 2016, 15, 147-153.	1.6	0
61	Role of sTREM-1 in predicting mortality of infection: a systematic review and meta-analysis. <i>BMJ Open</i> , 2016, 6, e010314.	1.9	50
62	Effects of Vaporized Perfluorocarbon on Surfactant Proteins in an Animal Model of LPS-Induced Acute Lung Injury. <i>Chest</i> , 2016, 149, A154.	0.8	0
63	Clinical and Experimental Significance of Vitamin D-Binding Protein in Patients With Sepsis and the Mouse Sepsis Model. <i>Chest</i> , 2016, 149, A181.	0.8	0
64	Diagnosis of Sepsis with Cell-free DNA by Next-Generation Sequencing Technology in ICU Patients. <i>Archives of Medical Research</i> , 2016, 47, 365-371.	3.3	168
65	Prognostic value of extravascular lung water and its potential role in guiding fluid therapy in septic shock after initial resuscitation. <i>Journal of Critical Care</i> , 2016, 33, 106-113.	2.2	25
66	Impact of a short-term exposure to spaceflight on the phenotype, genome, transcriptome and proteome of <i>Escherichia coli</i> . <i>International Journal of Astrobiology</i> , 2015, 14, 435-444.	1.6	10
67	Urine sTREM-1 may be a valuable biomarker in diagnosis and prognosis of sepsis-associated acute kidney injury. <i>Critical Care</i> , 2015, 19, 281.	5.8	17
68	Pheochromocytoma Crisis With Severe Cyclic Blood Pressure Fluctuations in a Cardiac Pheochromocytoma Patient Successfully Resuscitated by Extracorporeal Membrane Oxygenation. <i>Medicine (United States)</i> , 2015, 94, e790.	1.0	12
69	A Case Report of Churg-Strauss Syndrome Presenting With Cardiogenic Shock Treated With Extracorporeal Membrane Oxygenation. <i>Medicine (United States)</i> , 2015, 94, e1757.	1.0	9
70	Dynamic Changes in Amino Acid Concentration Profiles in Patients with Sepsis. <i>PLoS ONE</i> , 2015, 10, e0121933.	2.5	88
71	Dexamethasone Suppressed LPS-Induced Matrix Metalloproteinase and Its Effect on Endothelial Glycocalyx Shedding. <i>Mediators of Inflammation</i> , 2015, 2015, 1-8.	3.0	49
72	Î±-1-Acid glycoprotein as a biomarker for the early diagnosis and monitoring the prognosis of sepsis. <i>Journal of Critical Care</i> , 2015, 30, 744-751.	2.2	20

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73	The Role of Uncoupling Protein 2 During Myocardial Dysfunction in a Canine Model of Endotoxin Shock. <i>Shock</i> , 2015, 43, 292-297.	2.1	22
74	Alterations of T Helper Lymphocyte Subpopulations in Sepsis, Severe Sepsis, and Septic Shock: A Prospective Observational Study. <i>Inflammation</i> , 2015, 38, 995-1002.	3.8	57
75	Use of genome sequencing to assess nucleotide structure variation of <i>Staphylococcus aureus</i> strains cultured in spaceflight on Shenzhou-X, under simulated microgravity and on the ground. <i>Microbiological Research</i> , 2015, 170, 61-68.	5.3	16
76	Prognostic Value of Procalcitonin in Adult Patients with Sepsis: A Systematic Review and Meta-Analysis. <i>PLoS ONE</i> , 2015, 10, e0129450.	2.5	128
77	Prognostic value of different scoring models in patients with multiple organ dysfunction syndrome associated with acute COPD exacerbation. <i>Journal of Thoracic Disease</i> , 2015, 7, 329-36.	1.4	8
78	Discrimination of sepsis stage metabolic profiles with an LC/MS-MS-based metabolomics approach. <i>BMJ Open Respiratory Research</i> , 2014, 1, e000056.	3.0	50
79	Comparative genomic analysis of <i>Klebsiella pneumoniae</i> (LCT-KP214) and a mutant strain (LCT-KP289) obtained after spaceflight. <i>BMC Genomics</i> , 2014, 15, 589.	2.8	13
80	Space mutagenesis of genetically engineered bacteria expressing recombinant human interferon $\beta$ and screening of higher yielding strains. <i>World Journal of Microbiology and Biotechnology</i> , 2014, 30, 943-949.	3.6	12
81	WWTR1 promotes cell proliferation and inhibits apoptosis through cyclin A and CTGF regulation in non-small cell lung cancer. <i>Tumor Biology</i> , 2014, 35, 463-468.	1.8	21
82	The synergistic therapeutic effect of hepatocyte growth factor and granulocyte colony-stimulating factor on pulmonary hypertension in rats. <i>Heart and Vessels</i> , 2014, 29, 520-531.	1.2	15
83	Transcriptomic and proteomic responses of <i>Serratia marcescens</i> to spaceflight conditions involve large-scale changes in metabolic pathways. <i>Advances in Space Research</i> , 2014, 53, 1108-1117.	2.6	13
84	Phenotypic, genomic, transcriptomic and proteomic changes in <i>Bacillus cereus</i> after a short-term space flight. <i>Advances in Space Research</i> , 2014, 53, 18-29.	2.6	30
85	Genome Sequence of <i>Bacillus cereus</i> Strain LCT-BC235, Carried by the Shenzhou VIII Spacecraft. <i>Genome Announcements</i> , 2014, 2, .	0.8	1
86	Draft Genome Sequence of <i>Bacillus cereus</i> LCT-BC25, Isolated from Space Flight. <i>Genome Announcements</i> , 2014, 2, .	0.8	2
87	Genomic Evolution of 11 Type Strains within Family Planctomycetaceae. <i>PLoS ONE</i> , 2014, 9, e86752.	2.5	18
88	Prognosis and weaning of elderly multiple organ dysfunction syndrome patients with invasive mechanical ventilation. <i>Chinese Medical Journal</i> , 2014, 127, 11-7.	2.3	14
89	A multi-omic analysis of an <i>Enterococcus faecium</i> mutant reveals specific genetic mutations and dramatic changes in mRNA and protein expression. <i>BMC Microbiology</i> , 2013, 13, 304.	3.3	14
90	The efficacy of MSC-HGF in treating pulmonary arterial hypertension (PAH) and connexin remodelling. <i>Open Life Sciences</i> , 2013, 8, 240-251.	1.4	2

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91	Draft Genome Sequence of Escherichia coli Strain LCT-EC59. <i>Genome Announcements</i> , 2013, 1, .	0.8	1
92	Draft Genome Sequences of the Enterococcus faecium Strain LCT-EF258. <i>Genome Announcements</i> , 2013, 1, .	0.8	1
93	Diagnostic Value of Dynamics Serum sCD163, sTREM-1, PCT, and CRP in Differentiating Sepsis, Severity Assessment, and Prognostic Prediction. <i>Mediators of Inflammation</i> , 2013, 2013, 1-9.	3.0	59
94	The development of space microbiology in the future: the value and significance of space microbiology research. <i>Future Microbiology</i> , 2013, 8, 5-8.	2.0	29
95	Urinary proteomics analysis for sepsis biomarkers with iTRAQ labeling and two-dimensional liquid chromatography-tandem mass spectrometry. <i>Journal of Trauma and Acute Care Surgery</i> , 2013, 74, 940-945.	2.1	25
96	Identification of Novel Biomarkers for Sepsis Prognosis via Urinary Proteomic Analysis Using iTRAQ Labeling and 2D-LC-MS/MS. <i>PLoS ONE</i> , 2013, 8, e54237.	2.5	69
97	Genome Sequence of Enterococcus faecium Clinical Isolate LCT-EF128. <i>Journal of Bacteriology</i> , 2012, 194, 4765-4765.	2.2	4
98	Draft Genome Sequence of Enterococcus faecium Strain LCT-EF90. <i>Journal of Bacteriology</i> , 2012, 194, 3556-3557.	2.2	2
99	Draft Genome Sequence of Pseudomonas aeruginosa Strain ATCC 27853. <i>Journal of Bacteriology</i> , 2012, 194, 3755-3755.	2.2	14
100	Whole-Genome Sequence of Klebsiella pneumonia Strain LCT-KP214. <i>Journal of Bacteriology</i> , 2012, 194, 3281-3281.	2.2	9
101	Draft Genome Sequence of Escherichia coli LCT-EC106. <i>Journal of Bacteriology</i> , 2012, 194, 4443-4444.	2.2	7
102	Draft Genome Sequence of Bacillus cereus Strain LCT-BC244. <i>Journal of Bacteriology</i> , 2012, 194, 3549-3549.	2.2	4
103	Whole-Genome Sequence of Staphylococcus aureus Strain LCT-SA112. <i>Journal of Bacteriology</i> , 2012, 194, 4124-4124.	2.2	5
104	Draft Genome Sequence of Serratia marcescens Strain LCT-SM213. <i>Journal of Bacteriology</i> , 2012, 194, 4477-4478.	2.2	7
105	Dynamic Changes in Serum Soluble Triggering Receptor Expressed on Myeloid Cells-1 (sTREM-1) and its Gene Polymorphisms are Associated with Sepsis Prognosis. <i>Inflammation</i> , 2012, 35, 1833-1843.	3.8	36
106	Value of soluble TREM-1, procalcitonin, and C-reactive protein serum levels as biomarkers for detecting bacteremia among sepsis patients with new fever in intensive care units: a prospective cohort study. <i>BMC Infectious Diseases</i> , 2012, 12, 157.	2.9	100
107	Diagnostic value of urine sCD163 levels for sepsis and relevant acute kidney injury: a prospective study. <i>BMC Nephrology</i> , 2012, 13, 123.	1.8	13
108	Assessment of the green fluorescence protein labeling method for tracking implanted mesenchymal stem cells. <i>Cytotechnology</i> , 2012, 64, 391-401.	1.6	23