

Tyler J Loftus

List of Publications by Year in descending order

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Version: 2024-02-01

131
papers

2,238
citations

331670

21
h-index

289244

40
g-index

132
all docs

132
docs citations

132
times ranked

2411
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial Intelligence and Surgical Decision-making. JAMA Surgery, 2020, 155, 148.	4.3	217
2	Innate Immunity in the Persistent Inflammation, Immunosuppression, and Catabolism Syndrome and Its Implications for Therapy. Frontiers in Immunology, 2018, 9, 595.	4.8	119
3	Microbial recognition and danger signals in sepsis and trauma. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 2564-2573.	3.8	100
4	Evidence for Persistent Immune Suppression in Patients Who Develop Chronic Critical Illness After Sepsis. Shock, 2018, 49, 249-258.	2.1	98
5	DeepSOFA: A Continuous Acuity Score for Critically Ill Patients using Clinically Interpretable Deep Learning. Scientific Reports, 2019, 9, 1879.	3.3	97
6	Benchmarking clinical outcomes and the immunocatabolic phenotype of chronic critical illness after sepsis in surgical intensive care unit patients. Journal of Trauma and Acute Care Surgery, 2018, 84, 342-349.	2.1	91
7	The Epidemiology of Chronic Critical Illness After Severe Traumatic Injury at Two Level One Trauma Centers*. Critical Care Medicine, 2017, 45, 1989-1996.	0.9	87
8	Serum Levels of Prealbumin and Albumin for Preoperative Risk Stratification. Nutrition in Clinical Practice, 2019, 34, 340-348.	2.4	71
9	Sepsis and Critical Illness Research Center investigators: protocols and standard operating procedures for a prospective cohort study of sepsis in critically ill surgical patients. BMJ Open, 2017, 7, e015136.	1.9	65
10	A protocol for the management of adhesive small bowel obstruction. Journal of Trauma and Acute Care Surgery, 2015, 78, 13-21.	2.1	52
11	Predicting appendiceal tumors among patients with appendicitis. Journal of Trauma and Acute Care Surgery, 2017, 82, 771-775.	2.1	49
12	Dysregulated myelopoiesis and hematopoietic function following acute physiologic insult. Current Opinion in Hematology, 2018, 25, 37-43.	2.5	49
13	β-Blockade use for Traumatic Injuries and Immunomodulation. Shock, 2016, 46, 341-351.	2.1	46
14	Gender differences among surgical fellowship program directors. Surgery, 2019, 166, 735-737.	1.9	40
15	Severe trauma and chronic stress activates extramedullary erythropoiesis. Journal of Trauma and Acute Care Surgery, 2017, 83, 144-150.	2.1	35
16	The Postinjury Inflammatory State and the Bone Marrow Response to Anemia. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 629-638.	5.6	32
17	Successful nonoperative management of uncomplicated appendicitis: predictors and outcomes. Journal of Surgical Research, 2018, 222, 212-218.e2.	1.6	31
18	Ideal algorithms in healthcare: Explainable, dynamic, precise, autonomous, fair, and reproducible. , 2022, 1, e0000006.		29

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19	Temporary abdominal closure for trauma and intra-abdominal sepsis. <i>Journal of Trauma and Acute Care Surgery</i> , 2017, 82, 345-350.	2.1	27
20	Performance of a Machine Learning Algorithm Using Electronic Health Record Data to Predict Postoperative Complications and Report on a Mobile Platform. <i>JAMA Network Open</i> , 2022, 5, e2211973.	5.9	26
21	Added Value of Intraoperative Data for Predicting Postoperative Complications: The MySurgeryRisk PostOp Extension. <i>Journal of Surgical Research</i> , 2020, 254, 350-363.	1.6	23
22	Chronic Critical Illness Patients Fail to Respond to Current Evidence-Based Intensive Care Nutrition Secondarily to Persistent Inflammation, Immunosuppression, and Catabolic Syndrome. <i>Journal of Parenteral and Enteral Nutrition</i> , 2020, 44, 1237-1249.	2.6	23
23	Daily propranolol administration reduces persistent injury-associated anemia after severe trauma and chronic stress. <i>Journal of Trauma and Acute Care Surgery</i> , 2017, 82, 714-721.	2.1	22
24	Use of Artificial Intelligence to Represent Emergent Systems and Augment Surgical Decision-making. <i>JAMA Surgery</i> , 2019, 154, 791.	4.3	22
25	Neural network prediction of severe lower intestinal bleeding and the need for surgical intervention. <i>Journal of Surgical Research</i> , 2017, 212, 42-47.	1.6	21
26	Intelligent, Autonomous Machines in Surgery. <i>Journal of Surgical Research</i> , 2020, 253, 92-99.	1.6	21
27	Clinical Impact of a Dedicated Trauma Hybrid Operating Room. <i>Journal of the American College of Surgeons</i> , 2021, 232, 560-570.	0.5	21
28	ICU Delirium-Prediction Models: A Systematic Review. , 2020, 2, e0296.		21
29	Artificial intelligence-enabled decision support in nephrology. <i>Nature Reviews Nephrology</i> , 2022, 18, 452-465.	9.6	21
30	Artificial Intelligence and Surgery: Ethical Dilemmas and Open Issues. <i>Journal of the American College of Surgeons</i> , 2022, 235, 268-275.	0.5	21
31	Persistent inflammation and anemia among critically ill septic patients. <i>Journal of Trauma and Acute Care Surgery</i> , 2019, 86, 260-267.	2.1	20
32	Performance advantages for grit and optimism. <i>American Journal of Surgery</i> , 2020, 220, 10-18.	1.8	19
33	Decision analysis and reinforcement learning in surgical decision-making. <i>Surgery</i> , 2020, 168, 253-266.	1.9	18
34	Overlapping but Disparate Inflammatory and Immunosuppressive Responses to SARS-CoV-2 and Bacterial Sepsis: An Immunological Time Course Analysis. <i>Frontiers in Immunology</i> , 2021, 12, 792448.	4.8	18
35	Prognostic Value of Clinical vs Pathologic Stage in Rectal Cancer Patients Receiving Neoadjuvant Therapy. <i>Journal of the National Cancer Institute</i> , 2018, 110, 460-466.	6.3	17
36	Equity and Artificial Intelligence in Surgical Care. <i>JAMA Surgery</i> , 2021, 156, 509.	4.3	17

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37	A Novel Single Cell RNA-seq Analysis of Non-Myeloid Circulating Cells in Late Sepsis. <i>Frontiers in Immunology</i> , 2021, 12, 696536.	4.8	17
38	Clonidine reduces norepinephrine and improves bone marrow function in a rodent model of lung contusion, hemorrhagic shock, and chronic stress. <i>Surgery</i> , 2017, 161, 795-802.	1.9	16
39	The impact of standardized protocol implementation for surgical damage control and temporary abdominal closure after emergent laparotomy. <i>Journal of Trauma and Acute Care Surgery</i> , 2019, 86, 670-678.	2.1	16
40	Association of persistent acute kidney injury and renal recovery with mortality in hospitalised patients. <i>BMJ Health and Care Informatics</i> , 2021, 28, e100458.	3.0	16
41	Duodenal gangliocytic paraganglioma: A case report and literature review. <i>International Journal of Surgery Case Reports</i> , 2015, 8, 5-8.	0.6	15
42	Clinical Trajectories of Acute Kidney Injury in Surgical Sepsis. <i>Annals of Surgery</i> , 2022, 275, 1184-1193.	4.2	15
43	Percutaneous cholecystostomy: prognostic factors and comparison to cholecystectomy. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2017, 31, 4568-4575.	2.4	14
44	Hypertonic saline resuscitation after emergent laparotomy and temporary abdominal closure. <i>Journal of Trauma and Acute Care Surgery</i> , 2018, 84, 350-357.	2.1	14
45	Anemia and blood transfusion in elderly trauma patients. <i>Journal of Surgical Research</i> , 2018, 229, 288-293.	1.6	14
46	Routine surveillance cholangiography after percutaneous cholecystostomy delays drain removal and cholecystectomy. <i>Journal of Trauma and Acute Care Surgery</i> , 2017, 82, 351-355.	2.1	13
47	Machine Learning Applications in Solid Organ Transplantation and Related Complications. <i>Frontiers in Immunology</i> , 2021, 12, 739728.	4.8	13
48	Mouse Injury Model of Polytrauma and Shock. <i>Methods in Molecular Biology</i> , 2018, 1717, 1-15.	0.9	13
49	Methods for Phenotyping Adult Patients in Sepsis and Septic Shock: A Scoping Review. , 2022, 4, e0672.		13
50	Computed tomography evidence of fluid in the hernia sac predicts surgical site infection following mesh repair of acutely incarcerated ventral and groin hernias. <i>Journal of Trauma and Acute Care Surgery</i> , 2017, 83, 170-174.	2.1	12
51	Angiographic embolization followed by piecemeal resection of giant posterior mediastinal schwannoma: Case report and concise review. <i>International Journal of Surgery Case Reports</i> , 2018, 53, 250-253.	0.6	12
52	Opportunities for machine learning to improve surgical ward safety. <i>American Journal of Surgery</i> , 2020, 220, 905-913.	1.8	12
53	Improved outcomes following implementation of an acute gastrointestinal bleeding multidisciplinary protocol. <i>Journal of Trauma and Acute Care Surgery</i> , 2017, 83, 41-46.	2.1	11
54	Objective predictors of intern performance. <i>BMC Medical Education</i> , 2021, 21, 77.	2.4	11

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55	Effects of trauma, hemorrhagic shock, and chronic stress on lung vascular endothelial growth factor. <i>Journal of Surgical Research</i> , 2017, 210, 15-21.	1.6	10
56	Antibiotics May be Safely Discontinued Within One Week of Percutaneous Cholecystostomy. <i>World Journal of Surgery</i> , 2017, 41, 1239-1245.	1.6	10
57	Delayed interhospital transfer of critically ill patients with surgical sepsis. <i>Journal of Trauma and Acute Care Surgery</i> , 2020, 88, 169-175.	2.1	10
58	Acute Kidney Injury Following Exploratory Laparotomy and Temporary Abdominal Closure. <i>Shock</i> , 2017, 48, 5-10.	2.1	9
59	Impact of Injury Severity on the Inflammatory State and Severe Anemia. <i>Journal of Surgical Research</i> , 2020, 248, 109-116.	1.6	9
60	Optimizing predictive strategies for acute kidney injury after major vascular surgery. <i>Surgery</i> , 2021, 170, 298-303.	1.9	9
61	Advances in artificial intelligence and deep learning systems in ICU-related acute kidney injury. <i>Current Opinion in Critical Care</i> , 2021, 27, 560-572.	3.2	9
62	Executive summary of the artificial intelligence in surgery series. <i>Surgery</i> , 2022, 171, 1435-1439.	1.9	9
63	Association of Postoperative Undertriage to Hospital Wards With Mortality and Morbidity. <i>JAMA Network Open</i> , 2021, 4, e2131669.	5.9	9
64	Evaluation of a Multivalent Transcriptomic Metric for Diagnosing Surgical Sepsis and Estimating Mortality Among Critically Ill Patients. <i>JAMA Network Open</i> , 2022, 5, e2221520.	5.9	9
65	Persistent injury-associated anemia: the role of the bone marrow microenvironment. <i>Journal of Surgical Research</i> , 2017, 214, 240-246.	1.6	8
66	A protocol for non-operative management of uncomplicated appendicitis. <i>Journal of Trauma and Acute Care Surgery</i> , 2018, 84, 358-364.	2.1	8
67	Effect of Beta-Blockade on the Expression of Regulatory MicroRNA after Severe Trauma and Chronic Stress. <i>Journal of the American College of Surgeons</i> , 2020, 230, 121-129.	0.5	8
68	Sepsis-Induced Myopathy and Gut Microbiome Dysbiosis: Mechanistic Links and Therapeutic Targets. <i>Shock</i> , 2022, 57, 15-23.	2.1	8
69	Gamification for Machine Learning in Surgical Patient Engagement. <i>Frontiers in Surgery</i> , 2022, 9, .	1.4	8
70	Early bronchoalveolar lavage for intubated trauma patients with TBI or chest trauma. <i>Journal of Critical Care</i> , 2017, 39, 78-82.	2.2	7
71	ICU-Acquired Weakness, Chronic Critical Illness, and the Persistent Inflammation-Immunosuppression and Catabolism Syndrome. <i>Critical Care Medicine</i> , 2017, 45, e1184.	0.9	7
72	Metabolomic Profiling for Diagnosis and Prognostication in Surgery: A Scoping Review. <i>Annals of Surgery</i> , 2021, 273, 258-268.	4.2	7

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73	Early Biomarker Signatures in Surgical Sepsis. <i>Journal of Surgical Research</i> , 2022, 277, 372-383.	1.6	7
74	Packed red blood cell donor age affects overall survival in transfused patients undergoing hepatectomy for non-hepatocellular malignancy. <i>American Journal of Surgery</i> , 2019, 217, 71-77.	1.8	6
75	Intraoperative hypotension and complications after vascular surgery: A scoping review. <i>Surgery</i> , 2021, 170, 311-317.	1.9	6
76	The Relationship Between ACGME Duty Hour Requirements and Performance on the American Board of Emergency Medicine Qualifying Examination. <i>Journal of Graduate Medical Education</i> , 2016, 8, 558-562.	1.3	5
77	Characterization of hypoalbuminemia following temporary abdominal closure. <i>Journal of Trauma and Acute Care Surgery</i> , 2017, 83, 650-656.	2.1	5
78	Sigmoido-rectal intussusception. <i>SAGE Open Medical Case Reports</i> , 2019, 7, 2050313X1985624.	0.3	5
79	The effects of propranolol and clonidine on bone marrow expression of hematopoietic cytokines following trauma and chronic stress. <i>American Journal of Surgery</i> , 2019, 218, 858-863.	1.8	5
80	The Impact of Prior Laparotomy and Intra-abdominal Adhesions on Bowel and Mesenteric Injury Following Blunt Abdominal Trauma. <i>World Journal of Surgery</i> , 2019, 43, 457-465.	1.6	5
81	Modulation of the HGF/c-Met Axis Impacts Prolonged Hematopoietic Progenitor Mobilization Following Trauma and Chronic Stress. <i>Shock</i> , 2020, 54, 482-487.	2.1	5
82	Cardiovascular and Renal Disease in Chronic Critical Illness. <i>Journal of Clinical Medicine</i> , 2021, 10, 1601.	2.4	5
83	Chronic Critical Illness Elicits a Unique Circulating Leukocyte Transcriptome in Sepsis Survivors. <i>Journal of Clinical Medicine</i> , 2021, 10, 3211.	2.4	5
84	Aligning Patient Acuity with Resource Intensity after Major Surgery. <i>Annals of Surgery</i> , 2021, Publish Ahead of Print, .	4.2	5
85	Editorial: Machine Learning in Clinical Decision-Making. <i>Frontiers in Digital Health</i> , 2021, 3, 784495.	2.8	5
86	Emergent laparotomy and temporary abdominal closure for the cirrhotic patient. <i>Journal of Surgical Research</i> , 2017, 210, 108-114.	1.6	4
87	The effects of red cell transfusion donor age on nosocomial infection among trauma patients. <i>American Journal of Surgery</i> , 2017, 214, 672-676.	1.8	4
88	Clonidine restores vascular endothelial growth factor expression and improves tissue repair following severe trauma. <i>American Journal of Surgery</i> , 2017, 214, 610-615.	1.8	4
89	Effect of Time to Operation on Value of Care in Acute Care Surgery. <i>World Journal of Surgery</i> , 2018, 42, 2356-2363.	1.6	4
90	The effects of beta blockade and clonidine on persistent injury-associated anemia. <i>Journal of Surgical Research</i> , 2018, 230, 175-180.	1.6	4

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91	Multiobjective optimization challenges in perioperative anesthesia: A review. <i>Surgery</i> , 2021, 170, 320-324.	1.9	4
92	Nutritional Management and Strategies for the Enterocutaneous Fistula. <i>Current Surgery Reports</i> , 2020, 8, 1.	0.9	4
93	Building an Artificial Intelligence“Competent Surgical Workforce. <i>JAMA Surgery</i> , 2021, 156, 511-512.	4.3	4
94	Bridging the artificial intelligence valley of death in surgical decision-making. <i>Surgery</i> , 2021, 169, 746-748.	1.9	4
95	Mediators of Prolonged Hematopoietic Progenitor Cell Mobilization After Severe Trauma. <i>Journal of Surgical Research</i> , 2021, 260, 315-324.	1.6	4
96	Vitamin D status is associated with hepcidin and hemoglobin concentrations in patients with severe traumatic injury. <i>Journal of Trauma and Acute Care Surgery</i> , 2020, 89, 1124-1130.	2.1	4
97	Intubated Trauma Patients Receiving Prolonged Antibiotics for Pneumonia despite Negative Cultures: Predictors and Outcomes. <i>Surgical Infections</i> , 2016, 17, 766-772.	1.4	3
98	Persistent injury-associated anemia and aging: Novel insights. <i>Journal of Trauma and Acute Care Surgery</i> , 2018, 84, 490-496.	2.1	3
99	Persistent injury-associated anemia in aged rats. <i>Experimental Gerontology</i> , 2018, 103, 63-68.	2.8	3
100	Systemic Regulation of Bone Marrow Stromal Cytokines After Severe Trauma. <i>Journal of Surgical Research</i> , 2019, 243, 220-228.	1.6	3
101	Performance Improvement With Implementation of a Surgical Skills Curriculum. <i>Journal of Surgical Education</i> , 2021, 78, 561-569.	2.5	3
102	Optimal Antibiotic Duration for Bloodstream Infections Secondary to Intraabdominal Infection. <i>Journal of Surgical Research</i> , 2021, 260, 82-87.	1.6	3
103	The Morbidity and Mortality Assessment Tool (MMAT): Design and Proof of Concept. <i>Journal of Surgical Research</i> , 2021, 267, 260-266.	1.6	3
104	Occult bowel injury after blunt abdominal trauma. <i>American Journal of Surgery</i> , 2019, 218, 266-270.	1.8	2
105	The role of bone marrow microRNA (miR) in erythropoietic dysfunction after severe trauma. <i>Surgery</i> , 2021, 169, 1206-1212.	1.9	2
106	Artificial intelligence and gender bias in hiring surgeons and beyond. <i>American Journal of Surgery</i> , 2021, 222, 1050.	1.8	2
107	Audiovisual Modules to Enhance Informed Consent in the ICU: A Pilot Study. , 2020, 2, e0278.		2
108	Nutritional impact of omega 3 fatty acids and metabolites in acute and chronic critical illness. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2022, 25, 75-80.	2.5	2

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109	Impact of Empiric Linezolid for Necrotizing Soft Tissue Infections on Duration of Methicillin-Resistant Staphylococcus aureus-Active Therapy Empiric Linezolid Use for Necrotizing Soft Tissue Infections. <i>Surgical Infections</i> , 2022, , .	1.4	2
110	Associations Between National Board Exam Performance and Residency Program Emphasis on Patient Safety and Interprofessional Teamwork. <i>Academic Psychiatry</i> , 2019, 43, 581-584.	0.9	1
111	1798. <i>Critical Care Medicine</i> , 2019, 47, 872.	0.9	1
112	Mysteries, Epistemological Modesty, and Artificial Intelligence in Surgery. <i>Frontiers in Artificial Intelligence</i> , 2020, 2, .	3.4	1
113	Preoperative computed tomography for acutely incarcerated ventral or inguinal hernia. <i>Surgery</i> , 2022, , .	1.9	1
114	Outcomes From a Level 1 Trauma and Metabolic and Bariatric Surgery Accreditation and Quality Improvement Program Center of Excellence. <i>American Surgeon</i> , 2023, 89, 2920-2922.	0.8	1
115	Reduction of Hypercatecholaminemia Restores Vascular Endothelial Growth Factor Expression and Improves Tissue Repair after Lung Injury. <i>Journal of the American College of Surgeons</i> , 2016, 223, S157.	0.5	0
116	1454: INFLAMMATORY CYTOKINES, ERYTHROPOIETIN, AND ANEMIA AMONG CRITICALLY ILL SEPTIC PATIENTS. <i>Critical Care Medicine</i> , 2016, 44, 439-439.	0.9	0
117	1543: THE EFFECTS OF BETA BLOCKADE AND CLONIDINE ON PERSISTENT INJURY-ASSOCIATED ANEMIA. <i>Critical Care Medicine</i> , 2016, 44, 461-461.	0.9	0
118	1505: HEMATOPOIETIC PROGENITOR CELL MIRNA EXPRESSION IMPLIES ABERRANT MYELOPOIESIS IN ELDERLY MOUSE TRAUMA. <i>Critical Care Medicine</i> , 2016, 44, 452-452.	0.9	0
119	Role of the Hepatocyte Growth Factor/Tyrosine-Protein Kinase Met Axis in the Mobilization of Hematopoietic Progenitor Cells after Severe Trauma and Chronic Stress. <i>Journal of the American College of Surgeons</i> , 2017, 225, S64.	0.5	0
120	1619: INCREASING SOFA SCORE GRANULARITY WITH DEEP LEARNING. <i>Critical Care Medicine</i> , 2018, 46, 794-794.	0.9	0
121	Response to Er and Tez: the use of artificial neural networks in medical prognostication. <i>Journal of Surgical Research</i> , 2018, 222, 226.	1.6	0
122	Survival Impact of Acute Kidney Injury in Aortic Surgery Patients Receiving Temporary Abdominal Closure after Repeat Laparotomy. <i>Journal of the American College of Surgeons</i> , 2018, 227, e252.	0.5	0
123	Protocol for Emergent Laparotomy and Temporary Abdominal Closure. <i>Journal of the American College of Surgeons</i> , 2018, 227, e114.	0.5	0
124	Cardiac pseudoaneurysm following non-operative management after penetrating thoracoabdominal trauma and pericardial window. <i>Journal of Trauma and Acute Care Surgery</i> , 2019, 86, 755-757.	2.1	0
125	Patient-Specific and Hospital Resource-Specific Considerations in Operative Versus Nonoperative Management of Acute Appendicitis. <i>Journal of Surgical Research</i> , 2019, 237, 110-111.	1.6	0
126	Reactive Artificial Intelligence Using Big Data in the Era of Precision Medicine—Reply. <i>JAMA Surgery</i> , 2020, 155, 671.	4.3	0

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127	Introduction to the artificial intelligence in surgery series. <i>Surgery</i> , 2021, 169, 744-745.	1.9	0
128	Identification of unique microRNA expression patterns in bone marrow hematopoietic stem and progenitor cells after hemorrhagic shock and multiple injuries in young and old adult mice. <i>Journal of Trauma and Acute Care Surgery</i> , 2021, 91, 692-699.	2.1	0
129	Effects of a Single Rapid Infusion System on Platelet Function in Stored Whole Blood: An Ex Vivo Study. <i>Cureus</i> , 2021, 13, e16518.	0.5	0
130	Pathologic stage dictates survival after neoadjuvant radiation for rectal cancer. <i>Oncotarget</i> , 2018, 9, 35474-35475.	1.8	0
131	Age-dependent response to multimodal therapy for stage II-III rectal cancer. <i>Oncotarget</i> , 2019, 10, 4615-4615.	1.8	0