

# Kaitlyn Sadtler

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

3,098  
citations

304743

22  
h-index

434195

31  
g-index

45  
all docs

45  
docs citations

45  
times ranked

4900  
citing authors

#	ARTICLE	IF	CITATIONS
1	Developing a pro-regenerative biomaterial scaffold microenvironment requires T helper 2 cells. <i>Science</i> , 2016, 352, 366-370.	12.6	464
2	Delivery of mRNA vaccines with heterocyclic lipids increases anti-tumor efficacy by STING-mediated immune cell activation. <i>Nature Biotechnology</i> , 2019, 37, 1174-1185.	17.5	398
3	Design, clinical translation and immunological response of biomaterials in regenerative medicine. <i>Nature Reviews Materials</i> , 2016, 1, .	48.7	208
4	Divergent immune responses to synthetic and biological scaffolds. <i>Biomaterials</i> , 2019, 192, 405-415.	11.4	176
5	Optimization of a Degradable Polymer-Lipid Nanoparticle for Potent Systemic Delivery of mRNA to the Lung Endothelium and Immune Cells. <i>Nano Letters</i> , 2018, 18, 6449-6454.	9.1	141
6	Tissue matrix arrays for high-throughput screening and systems analysis of cell function. <i>Nature Methods</i> , 2015, 12, 1197-1204.	19.0	140
7	Serologic Cross-Reactivity of SARS-CoV-2 with Endemic and Seasonal Betacoronaviruses. <i>Journal of Clinical Immunology</i> , 2021, 41, 906-913.	3.8	133
8	Lung epithelial and endothelial damage, loss of tissue repair, inhibition of fibrinolysis, and cellular senescence in fatal COVID-19. <i>Science Translational Medicine</i> , 2021, 13, eabj7790.	12.4	133
9	IL-17 and immunologically induced senescence regulate response to injury in osteoarthritis. <i>Journal of Clinical Investigation</i> , 2020, 130, 5493-5507.	8.2	119
10	Engineered PLGA microparticles for long-term, pulsatile release of STING agonist for cancer immunotherapy. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	117
11	Standardization of ELISA protocols for serosurveys of the SARS-CoV-2 pandemic using clinical and at-home blood sampling. <i>Nature Communications</i> , 2021, 12, 113.	12.8	115
12	Undiagnosed SARS-CoV-2 seropositivity during the first 6 months of the COVID-19 pandemic in the United States. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	106
13	Interleukin 17 and senescent cells regulate the foreign body response to synthetic material implants in mice and humans. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	99
14	A biologic scaffold-associated type 2 immune microenvironment inhibits tumor formation and synergizes with checkpoint immunotherapy. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	96
15	Optimizing high-yield production of SARS-CoV-2 soluble spike trimers for serology assays. <i>Protein Expression and Purification</i> , 2020, 174, 105686.	1.3	84
16	Proteomic composition and immunomodulatory properties of urinary bladder matrix scaffolds in homeostasis and injury. <i>Seminars in Immunology</i> , 2017, 29, 14-23.	5.6	73
17	The Scaffold Immune Microenvironment: Biomaterial-Mediated Immune Polarization in Traumatic and Nontraumatic Applications. <i>Tissue Engineering - Part A</i> , 2017, 23, 1044-1053.	3.1	69
18	T lymphocytes as critical mediators in tissue regeneration, fibrosis, and the foreign body response. <i>Acta Biomaterialia</i> , 2021, 133, 17-33.	8.3	42

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19	Dysregulated Macrophages Are Present in Bleomycin-Induced Murine Laryngotracheal Stenosis. <i>Otolaryngology - Head and Neck Surgery</i> , 2015, 153, 244-250.	1.9	35
20	Severe Acute Respiratory Syndrome Coronavirus 2 Seroassay Performance and Optimization in a Population With High Background Reactivity in Mali. <i>Journal of Infectious Diseases</i> , 2021, 224, 2001-2009.	4.0	34
21	Rapidly Increasing Severe Acute Respiratory Syndrome Coronavirus 2 Seroprevalence and Limited Clinical Disease in 3 Malian Communities: A Prospective Cohort Study. <i>Clinical Infectious Diseases</i> , 2022, 74, 1030-1038.	5.8	30
22	A hierarchy of affinities between cytokine receptors and the common gamma chain leads to pathway cross-talk. <i>Science Signaling</i> , 2018, 11, .	3.6	25
23	Improved production of SARS-CoV-2 spike receptor-binding domain (RBD) for serology assays. <i>Protein Expression and Purification</i> , 2021, 179, 105802.	1.3	25
24	Effect of D614G Spike Variant on Immunoglobulin G, M, or A Spike Seroassay Performance. <i>Journal of Infectious Diseases</i> , 2021, 223, 802-804.	4.0	17
25	Flexible Multielectrode Array for Skeletal Muscle Conditioning, Acetylcholine Receptor Stabilization and Epimysial Recording After Critical Peripheral Nerve Injury. <i>Theranostics</i> , 2019, 9, 7099-7107.	10.0	16
26	Parallel evolution of polymer chemistry and immunology: Integrating mechanistic biology with materials design. <i>Advanced Drug Delivery Reviews</i> , 2020, 156, 65-79.	13.7	15
27	SARS-CoV-2 Cross-Reactivity in Prepandemic Serum from Rural Malaria-Infected Persons, Cambodia. <i>Emerging Infectious Diseases</i> , 2022, 28, 440-444.	4.3	15
28	Biological scaffold-mediated delivery of myostatin inhibitor promotes a regenerative immune response in an animal model of Duchenne muscular dystrophy. <i>Journal of Biological Chemistry</i> , 2018, 293, 15594-15605.	3.4	14
29	Analyzing the scaffold immune microenvironment using flow cytometry: practices, methods and considerations for immune analysis of biomaterials. <i>Biomaterials Science</i> , 2019, 7, 4472-4481.	5.4	8
30	Mobilizing Endogenous Repair Through Understanding Immune Reaction With Biomaterials. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 730938.	4.1	8
31	Material strategies and considerations for serologic testing of global infectious diseases. <i>MRS Bulletin</i> , 2021, , 1-5.	3.5	3
32	High-Dimensionality Flow Cytometry for Immune Function Analysis of Dissected Implant Tissues. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	1
33	Engineering the immune system. <i>Biochemist</i> , 2018, 40, 24-27.	0.5	0