

# Matthias Amrein

## List of Publications by Year in descending order

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30  
papers

1,226  
citations

430874

18  
h-index

580821

25  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1904  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Corynebacterium tuberculostearicum</i> , a human skin colonizer, induces the canonical nuclear factor- $\kappa$ B inflammatory signaling pathway in human skin cells. <i>Immunity, Inflammation and Disease</i> , 2020, 8, 62-79.	2.7	23
2	Patrolling Alveolar Macrophages Conceal Bacteria from the Immune System to Maintain Homeostasis. <i>Cell</i> , 2020, 183, 110-125.e11.	28.9	154
3	Beta3-Tubulin Is Critical for Microtubule Dynamics, Cell Cycle Regulation, and Spontaneous Release of Microvesicles in Human Malignant Melanoma Cells (A375). <i>International Journal of Molecular Sciences</i> , 2020, 21, 1656.	4.1	15
4	The Effects of Free Radicals on Pulmonary Surfactant Lipids and Proteins. , 2020, , 3-24.		0
5	Identification of the fungal ligand triggering cytotoxic PRR-mediated NK cell killing of <i>Cryptococcus</i> and <i>Candida</i> . <i>Nature Communications</i> , 2018, 9, 751.	12.8	52
6	Surfactant Dysfunction in ARDS and Bronchiolitis is Repaired with Cyclodextrins. <i>Military Medicine</i> , 2018, 183, 207-215.	0.8	14
7	Dynamic and Irregular Distribution of RyR2 Clusters in the Periphery of Live Ventricular Myocytes. <i>Biophysical Journal</i> , 2018, 114, 343-354.	0.5	27
8	Dysfunction of pulmonary surfactant mediated by phospholipid oxidation is cholesterol-dependent. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1040-1049.	2.4	10
9	Peptide-MHC-based nanomedicines for autoimmunity function as T-cell receptor microclustering devices. <i>Nature Nanotechnology</i> , 2017, 12, 701-710.	31.5	114
10	The role of multilayers in preventing the premature buckling of the pulmonary surfactant. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 1372-1380.	2.6	16
11	Pulmonary surfactant dysfunction in pediatric cystic fibrosis: Mechanisms and reversal with a lipid-sequestering drug. <i>Journal of Cystic Fibrosis</i> , 2017, 16, 565-572.	0.7	23
12	Identification and treatment of the <i>Staphylococcus aureus</i> reservoir in vivo. <i>Journal of Experimental Medicine</i> , 2016, 213, 1141-1151.	8.5	178
13	CD36 Recruits $\beta$ 5 $\beta$ 1 Integrin to Promote Cytoadherence of <i>P. falciparum</i> -Infected Erythrocytes. <i>PLoS Pathogens</i> , 2013, 9, e1003590.	4.7	21
14	<i>Plasmodium falciparum</i> -induced CD36 clustering rapidly strengthens cytoadherence via p130CAS-mediated actin cytoskeletal rearrangement. <i>FASEB Journal</i> , 2012, 26, 1119-1130.	0.5	28
15	Multiscale Experimental Study of Selective Blood-Cell Filtration in Fibrous Porous Media. <i>Transport in Porous Media</i> , 2012, 91, 913-926.	2.6	2
16	Effect of Cholesterol on Electrostatics in Lipid-Protein Films of a Pulmonary Surfactant. <i>Langmuir</i> , 2010, 26, 1929-1935.	3.5	40
17	Role of cholesterol in the biophysical dysfunction of surfactant in ventilator-induced lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010, 298, L117-L125.	2.9	65
18	Atomic Force Microscopy: Interaction Forces Measured in Phospholipid Monolayers, Bilayers, and Cell Membranes. , 2010, , 505-532.		1

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19	The electrical surface potential of pulmonary surfactant. <i>Frontiers in Bioscience - Landmark</i> , 2009, Volume, 4337.	3.0	0
20	Effect of SP-C on surface potential distribution in pulmonary surfactant: Atomic force microscopy and Kelvin probe force microscopy study. <i>Ultramicroscopy</i> , 2009, 109, 968-973.	1.9	23
21	Ultrastructure Imaging: Imaging and Probing the Structure and Molecular Make-Up of Cells and Tissues. , 2009, , 171-198.		0
22	Characteristics and impact of Taq enzyme adsorption on surfaces in microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2008, 4, 295-305.	2.2	28
23	Pulmonary Surfactant Self-Assembles into a Functional Film of Defined Molecular Architecture Irrespective of Concentration and Solvent of the Spreading Solution: A Fluorescence and Atomic Force Microscopy Study. <i>Journal of Biomedical Nanotechnology</i> , 2008, 4, 210-216.	1.1	4
24	Atomic Force Microscopy: Interaction Forces Measured in Phospholipid Monolayers, Bilayers and Cell Membranes. , 2008, , 207-234.		6
25	An Elevated Level of Cholesterol Impairs Self-Assembly of Pulmonary Surfactant into a Functional Film. <i>Biophysical Journal</i> , 2007, 93, 674-683.	0.5	89
26	The Molecular Mechanism of Monolayer-Bilayer Transformations of Lung Surfactant from Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2007, 93, 3775-3782.	0.5	97
27	Adhesive interaction measured between AFM probe and lung epithelial type II cells. <i>Ultramicroscopy</i> , 2007, 107, 948-953.	1.9	27
28	Electrical Surface Potential of Pulmonary Surfactant. <i>Langmuir</i> , 2006, 22, 10135-10139.	3.5	33
29	Effect of cholesterol on the physical properties of pulmonary surfactant films: Atomic force measurements study. <i>Ultramicroscopy</i> , 2006, 106, 687-694.	1.9	30
30	Pulmonary surfactant function is abolished by an elevated proportion of cholesterol. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2005, 1737, 27-35.	2.4	106