Matthias Amrein

List of Publications by Year
in descending order

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30	1,226	430874 18	580821 25
papers	citations	h-index	g-index

30	30	30	1904
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identification and treatment of the Staphylococcus aureus reservoir in vivo. Journal of Experimental Medicine, 2016, 213, 1141-1151.	8.5	178
2	Patrolling Alveolar Macrophages Conceal Bacteria from the Immune System to Maintain Homeostasis. Cell, 2020, 183, 110-125.e11.	28.9	154
3	Peptideâ€“MHC-based nanomedicines for autoimmunity function as T-cell receptor microclustering devices. Nature Nanotechnology, 2017, 12, 701-710.	31.5	114
4	Pulmonary surfactant function is abolished by an elevated proportion of cholesterol. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2005, 1737, 27-35.	2.4	106
5	The Molecular Mechanism of Monolayer-Bilayer Transformations of Lung Surfactant from Molecular Dynamics Simulations. Biophysical Journal, 2007, 93, 3775-3782.	0.5	97
6	An Elevated Level of Cholesterol Impairs Self-Assembly of Pulmonary Surfactant into a Functional Film. Biophysical Journal, 2007, 93, 674-683.	0.5	89
7	Role of cholesterol in the biophysical dysfunction of surfactant in ventilator-induced lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2010, 298, L117-L125.	2.9	65
8	Identification of the fungal ligand triggering cytotoxic PRR-mediated NK cell killing of Cryptococcus and Candida. Nature Communications, 2018, 9, 751.	12.8	52
9	Effect of Cholesterol on Electrostatics in Lipidâ^'Protein Films of a Pulmonary Surfactant. Langmuir, 2010, 26, 1929-1935.	3.5	40
10	Electrical Surface Potential of Pulmonary Surfactant. Langmuir, 2006, 22, 10135-10139.	3.5	33
11	Effect of cholesterol on the physical properties of pulmonary surfactant films: Atomic force measurements study. Ultramicroscopy, 2006, 106, 687-694.	1.9	30
12	Characteristics and impact of Taq enzyme adsorption on surfaces in microfluidic devices. Microfluidics and Nanofluidics, 2008, 4, 295-305.	2.2	28
13	Plasmodium falciparum â€induced CD36 clustering rapidly strengthens cytoadherence via p130CASâ€mediated actin cytoskeletal rearrangement. FASEB Journal, 2012, 26, 1119-1130.	0.5	28
14	Adhesive interaction measured between AFM probe and lung epithelial type II cells. Ultramicroscopy, 2007, 107, 948-953.	1.9	27
15	Dynamic and Irregular Distribution of RyR2 Clusters in the Periphery of Live Ventricular Myocytes. Biophysical Journal, 2018, 114, 343-354.	0.5	27
16	Effect of SP-C on surface potential distribution in pulmonary surfactant: Atomic force microscopy and Kelvin probe force microscopy study. Ultramicroscopy, 2009, 109, 968-973.	1.9	23
17	Pulmonary surfactant dysfunction in pediatric cystic fibrosis: Mechanisms and reversal with a lipid-sequestering drug. Journal of Cystic Fibrosis, 2017, 16, 565-572.	0.7	23
18	Corynebacterium tuberculostearicum, a human skin colonizer, induces the canonical nuclear factorâ€ºB inflammatory signaling pathway in human skin cells. Immunity, Inflammation and Disease, 2020, 8, 62-79.	2.7	23

#	Article	IF	Citations
19	CD36 Recruits Î±5Î²1 Integrin to Promote Cytoadherence of P. falciparum-Infected Erythrocytes. PLoS Pathogens, 2013, 9, e1003590.	4.7	21
20	The role of multilayers in preventing the premature buckling of the pulmonary surfactant. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1372-1380.	2.6	16
21	Beta3-Tubulin Is Critical for Microtubule Dynamics, Cell Cycle Regulation, and Spontaneous Release of Microvesicles in Human Malignant Melanoma Cells (A375). International Journal of Molecular Sciences, 2020, 21, 1656.	4.1	15
22	Surfactant Dysfunction in ARDS and Bronchiolitis is Repaired with Cyclodextrins. Military Medicine, 2018, 183, 207-215.	0.8	14
23	Dysfunction of pulmonary surfactant mediated by phospholipid oxidation is cholesterol-dependent. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1040-1049.	2.4	10
24	Atomic Force Microscopy: Interaction Forces Measured in Phospholipid Monolayers, Bilayers and Cell Membranes. , 2008, , 207-234.		6
25	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. Journal of Biomedical Nanotechnology, 2008, 4, 210-216.	1.1	4
26	Multiscale Experimental Study of Selective Blood-Cell Filtration in Fibrous Porous Media. Transport in Porous Media, 2012, 91, 913-926.	2.6	2
27	Atomic Force Microscopy: Interaction Forces Measured in Phospholipid Monolayers, Bilayers, and Cell Membranes. , 2010, , 505-532.		1
28	The electrical surface potential of pulmonary surfactant. Frontiers in Bioscience - Landmark, 2009, Volume, 4337.	3.0	0
29	The Effects of Free Radicals on Pulmonary Surfactant Lipids and Proteins. , 2020, , 3-24.		0
30	Ultrastructure Imaging: Imaging and Probing the Structure and Molecular Make-Up of Cells and Tissues. , 2009, , 171-198.		0