Matthias M Falk

List of Publications by Year
in descending order

44 papers	2,594 citations	186265 28 h-index	276875 41 g-index
46 all docs	46 docs citations	46 times ranked	2186 citing authors

#	Article	IF	Citations
1	Dynamic trafficking and delivery of connexons to the plasma membrane and accretion to gap junctions in living cells. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10446-10451.	7.1	286
2	Regulation of connexin biosynthesis, assembly, gap junction formation, and removal. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1662, 3-21.	2.6	263
3	Gap junction protein connexin-43 interacts directly with microtubules. Current Biology, 2001, 11, 1364-1368.	3.9	256
4	Internalization of Large Double-Membrane Intercellular Vesicles by a Clathrin-dependent Endocytic Process. Molecular Biology of the Cell, 2007, 18, 337-347.	2.1	155
5	Synthesis, assembly and structure of gap junction intercellular channels. Current Opinion in Structural Biology, 1998, 8, 517-524.	5.7	121
6	Proteins and Mechanisms Regulating Gap-Junction Assembly, Internalization, and Degradation. Physiology, 2013, 28, 93-116.	3.1	114
7	Internalized gap junctions are degraded by autophagy. Autophagy, 2012, 8, 794-811.	9.1	106
8	Expression of fluorescently tagged connexins: a novel approach to rescue function of oligomeric DsRed-tagged proteins1. FEBS Letters, 2001, 498, 11-15.	2.8	86
9	Molecular reorganization of Cx43, Zo-1 and Src complexes during the endocytosis of gap junction plaques in response to a non-genomic carcinogen. Journal of Cell Science, 2008, 121, 4069-4078.	2.0	85
10	Gap Junction Turnover Is Achieved by the Internalization of Small Endocytic Double-Membrane Vesicles. Molecular Biology of the Cell, 2009, 20, 3342-3352.	2.1	82
11	Degradation of connexins and gap junctions. FEBS Letters, 2014, 588, 1221-1229.	2.8	76
12	Biosynthesis and structural composition of gap junction intercellular membrane channels. European Journal of Cell Biology, 2000, 79, 564-574.	3.6	71
13	Doubleâ€membrane gap junction internalization requires the clathrinâ€mediated endocytic machinery. FEBS Letters, 2008, 582, 2887-2892.	2.8	69
14	Specific amino-acid residues in the N-terminus and TM3 implicated in channel function and oligomerization compatibility of connexin43. Journal of Cell Science, 2003, 116, 3189-3201.	2.0	65
15	Connexin43 phosphorylation by PKC and MAPK signals VEGF-mediated gap junction internalization. Molecular Biology of the Cell, 2015, 26, 2755-2768.	2.1	58
16	Molecular mechanisms regulating formation, trafficking and processing of annular gap junctions. BMC Cell Biology, 2016, 17, 22.	3.0	57
17	Acute internalization of gap junctions in vascular endothelial cells in response to inflammatory mediatorâ€induced Gâ€protein coupled receptor activation. FEBS Letters, 2008, 582, 4039-4046.	2.8	49
18	High resolution, fluorescence deconvolution microscopy and tagging with the autofluorescent tracers CFP, GFP, and YFP to study the structural composition of gap junctions in living cells. Microscopy Research and Technique, 2001, 52, 251-262.	2.2	48

#	Article	IF	Citations
19	E-cadherin Differentially Regulates the Assembly of Connexin43 and Connexin32 into Gap Junctions in Human Squamous Carcinoma Cells. Journal of Biological Chemistry, 2010, 285, 10761-10776.	3.4	47
20	Green-to-red photoconvertible fluorescent proteins: tracking cell and protein dynamics on standard wide-field mercury arc-based microscopes. BMC Cell Biology, 2010, 11, 15.	3.0	46
21	Connexin Membrane Protein Biosynthesis Is Influenced by Polypeptide Positioning within the Translocon and Signal Peptidase Access. Journal of Biological Chemistry, 1998, 273, 7856-7864.	3.4	45
22	Two tyrosine-based sorting signals in the Cx43 C-terminus cooperate to mediate gap junction endocytosis. Molecular Biology of the Cell, 2013, 24, 2834-2848.	2.1	45
23	Assembly of Connexin43 into Gap Junctions Is Regulated Differentially by E-Cadherin and N-Cadherin in Rat Liver Epithelial Cells. Molecular Biology of the Cell, 2010, 21, 4089-4107.	2.1	43
24	EGF induces efficient Cx43 gap junction endocytosis in mouse embryonic stem cell colonies via phosphorylation of Ser262, Ser279/282, and Ser368. FEBS Letters, 2014, 588, 836-844.	2.8	42
25	Phosphorylation regulates connexin43/ZO-1 binding and release, an important step in gap junction turnover. Molecular Biology of the Cell, 2017, 28, 3595-3608.	2.1	41
26	Nanoporosity Significantly Enhances the Biological Performance of Engineered Glass Tissue Scaffolds. Tissue Engineering - Part A, 2013, 19, 1632-1640.	3.1	35
27	Degradation of Endocytosed Gap Junctions by Autophagosomal and Endo-/lysosomal Pathways: A Perspective. Journal of Membrane Biology, 2012, 245, 465-476.	2.1	31
28	Sol-gel-derived glass scaffold with high pore interconnectivity and enhanced bioactivity. Journal of Materials Research, 2009, 24, 3495-3502.	2.6	29
29	Distribution and Dynamics of Gap Junction Channels Revealed in Living Cells. Cell Communication and Adhesion, 2001, 8, 237-242.	1.0	17
30	Cell-Free Synthesis for Analyzing the Membrane Integration, Oligomerization, and Assembly Characteristics of Gap Junction Connexins. Methods, 2000, 20, 165-179.	3.8	16
31	Adherens junctions remain dynamic. BMC Biology, 2010, 8, 34.	3.8	16
32	Nanostructure of bioactive glass affects bone cell attachment via protein restructuring upon adsorption. Scientific Reports, 2021, 11, 5763.	3.3	16
33	New bioactive glass scaffolds with exceptional qualities for bone tissue regeneration: response of osteoblasts and osteoclasts. Biomedical Materials (Bristol), 2018, 13, 025005.	3.3	14
34	Connexin 43 K63-polyubiquitination on lysines 264 and 303 regulates gap junction internalization. Journal of Cell Science, 2018, 131, .	2.0	11
35	Genetic tags for labelling live cells: gap junctions and beyond. Trends in Cell Biology, 2002, 12, 399-404.	7.9	10
36	Effects of Titanium Implant Surface Topology on Bone Cell Attachment and Proliferation in vitro. Medical Devices: Evidence and Research, 2022, Volume 15, 103-119.	0.8	9

#	Article	IF	Citations
37	Monolithic Glass Scaffolds with Dual Porosity Prepared by Polymerâ€Induced Phase Separation and Solâ€"Gel. Journal of the American Ceramic Society, 2010, 93, 1945-1949.	3.8	8
38	Role of phase separation on the biological performance of 45S5 BioglassÂ®. Journal of Materials Science: Materials in Medicine, 2017, 28, 161.	3.6	8
39	Influence of nanoporosity on the nature of hydroxyapatite formed on bioactive calcium silicate model glass. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 886-899.	3.4	6
40	Impaired Cx43 gap junction endocytosis causes morphological and functional defects in zebrafish. Molecular Biology of the Cell, 2021, 32, ar13.	2.1	6
41	Potential of tailored amorphous multiporous calcium silicate glass for pulp capping regenerative endodonticsâ€"A preliminary assessment. Journal of Dentistry, 2021, 109, 103655.	4.1	3
42	Do CAR and CAR family members aid in gap junction formation?. BioEssays, 2020, 42, 2000276.	2.5	1
43	Imaging Gap Junctions in Living Cells. , 2016, , 21-62.		1
44	Autophagy Degrades Endocytosed Gap Junctions. , 2015, , 273-285.		0