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	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
2	Nanostructure of bioactive glass affects bone cell attachment via protein restructuring upon adsorption. Scientific Reports, 2021, 11, 5763.	3.3	16
3	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
4	Impaired Cx43 gap junction endocytosis causes morphological and functional defects in zebrafish. Molecular Biology of the Cell, 2021, 32, ar13.	2.1	6
5	Do CAR and CAR family members aid in gap junction formation?. BioEssays, 2020, 42, 2000276.	2.5	1
6	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
7	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
8	Connexin 43 K63-polyubiquitination on lysines 264 and 303 regulates gap junction internalization. Journal of Cell Science, 2018, 131, .	2.0	11
9	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
10	Role of phase separation on the biological performance of 45S5 BioglassÂ®. Journal of Materials Science: Materials in Medicine, 2017, 28, 161.	3.6	8
11	Molecular mechanisms regulating formation, trafficking and processing of annular gap junctions. BMC Cell Biology, 2016, 17, 22.	3.0	57
12	Imaging Gap Junctions in Living Cells. , 2016, , 21-62.		1
13	Connexin43 phosphorylation by PKC and MAPK signals VEGF-mediated gap junction internalization. Molecular Biology of the Cell, 2015, 26, 2755-2768.	2.1	58
14	Autophagy Degrades Endocytosed Gap Junctions. , 2015, , 273-285.		0
15	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
16	Degradation of connexins and gap junctions. FEBS Letters, 2014, 588, 1221-1229.	2.8	76
17	Nanoporosity Significantly Enhances the Biological Performance of Engineered Glass Tissue Scaffolds. Tissue Engineering - Part A, 2013, 19, 1632-1640.	3.1	35
18	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

#	ARTICLE	IF	CITATIONS
19	Proteins and Mechanisms Regulating Gap-Junction Assembly, Internalization, and Degradation. Physiology, 2013, 28, 93-116.	3.1	114
20	Degradation of Endocytosed Gap Junctions by Autophagosomal and Endo-/lysosomal Pathways: A Perspective. Journal of Membrane Biology, 2012, 245, 465-476.	2.1	31
21	Internalized gap junctions are degraded by autophagy. Autophagy, 2012, 8, 794-811.	9.1	106
22	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
23	Adherens junctions remain dynamic. BMC Biology, 2010, 8, 34.	3.8	16
24	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
25	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
26	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
27	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
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	Doubleâ€membrane gap junction internalization requires the clathrinâ€mediated endocytic machinery. FEBS Letters, 2008, 582, 2887-2892.	2.8	69
30	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
31	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
32	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
33	Regulation of connexin biosynthesis, assembly, gap junction formation, and removal. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1662, 3-21.	2.6	263
34	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
35	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
36	Genetic tags for labelling live cells: gap junctions and beyond. Trends in Cell Biology, 2002, 12, 399-404.	7.9	10

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37	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
38	Distribution and Dynamics of Gap Junction Channels Revealed in Living Cells. Cell Communication and Adhesion, 2001, 8, 237-242.	1.0	17
39	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
40	Gap junction protein connexin-43 interacts directly with microtubules. Current Biology, 2001, 11, 1364-1368.	3.9	256
41	Biosynthesis and structural composition of gap junction intercellular membrane channels. European Journal of Cell Biology, 2000, 79, 564-574.	3.6	71
42	Cell-Free Synthesis for Analyzing the Membrane Integration, Oligomerization, and Assembly Characteristics of Gap Junction Connexins. Methods, 2000, 20, 165-179.	3.8	16
43	Synthesis, assembly and structure of gap junction intercellular channels. Current Opinion in Structural Biology, 1998, 8, 517-524.	5.7	121
44	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