Felix B Engel

List of Publications by Year
in descending order

99 papers	7,263 citations	57758 44 h-index	58581 82 g-index
112 all docs	112 docs citations	112 times ranked	10519 citing authors

#	Article	IF	Citations
1	p38 MAP kinase inhibition enables proliferation of adult mammalian cardiomyocytes. Genes and Development, 2005, 19, 1175-1187.	5.9	516
2	International Union of Basic and Clinical Pharmacology. XCIV. Adhesion G Proteinâ€“Coupled Receptors. Pharmacological Reviews, 2015, 67, 338-367.	16.0	392
3	Silk proteins for biomedical applications: Bioengineering perspectives. Progress in Polymer Science, 2014, 39, 251-267.	24.7	364
4	FGF1/p38 MAP kinase inhibitor therapy induces cardiomyocyte mitosis, reduces scarring, and rescues function after myocardial infarction. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15546-15551.	7.1	332
5	Extracellular vesicles in diagnostics and therapy of the ischaemic heart: Position Paper from the Working Group on Cellular Biology of the Heart of the European Society of Cardiology. Cardiovascular Research, 2018, 114, 19-34.	3.8	284
6	Novel targets and future strategies for acute cardioprotection: Position Paper of the European Society of Cardiology Working Group on Cellular Biology of the Heart. Cardiovascular Research, 2017, 113, 564-585.	3.8	278
7	New non-viral method for gene transfer into primary cells. Methods, 2004, 33, 151-163.	3.8	216
8	Hypoxia-inducible factor induces local thyroid hormone inactivation during hypoxic-ischemic disease in rats. Journal of Clinical Investigation, 2008, 118, 975-83.	8.2	211
9	Silk protein fibroin from Antheraea mylitta for cardiac tissue engineering. Biomaterials, 2012, 33, 2673-2680.	11.4	210
10	Position Paper of the European Society of Cardiology Working Group Cellular Biology of the Heart: cell-based therapies for myocardial repair and regeneration in ischemic heart disease and heart failure. European Heart Journal, 2016, 37, 1789-1798.	2.2	210
11	The GSK-3 Inhibitor BIO Promotes Proliferation in Mammalian Cardiomyocytes. Chemistry and Biology, 2006, 13, 957-963.	6.0	202
12	Spatially Resolved Genome-wide Transcriptional Profiling Identifies BMP Signaling as Essential Regulator of Zebrafish Cardiomyocyte Regeneration. Developmental Cell, 2016, 36, 36-49.	7.0	176
13	Gpr126 Functions in Schwann Cells to Control Differentiation and Myelination via G-Protein Activation. Journal of Neuroscience, 2013, 33, 17976-17985.	3.6	159
14	ESC Working Group Cellular Biology of the Heart: Position Paper: improving the preclinical assessment of novel cardioprotective therapies. Cardiovascular Research, 2014, 104, 399-411.	3.8	143
15	The SRF Target Gene Fhl2 Antagonizes RhoA/MAL-Dependent Activation of SRF. Molecular Cell, 2004, 16, 867-880.	9.7	137
16	Anillin localization defect in cardiomyocyte binucleation. Journal of Molecular and Cellular Cardiology, 2006, 41, 601-612.	1.9	136
17	Electroconductive Biohybrid Hydrogel for Enhanced Maturation and Beating Properties of Engineered Cardiac Tissues. Advanced Functional Materials, 2018, 28, 1803951.	14.9	135
18	Features of cardiomyocyte proliferation and its potential for cardiac regeneration. Journal of Cellular and Molecular Medicine, 2008, 12, 2233-2244.	3.6	114

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19	Epigenomic and transcriptomic approaches in the post-genomic era: path to novel targets for diagnosis and therapy of the ischaemic heart? Position Paper of the European Society of Cardiology Working Group on Cellular Biology of the Heart. Cardiovascular Research, 2017, 113, 725-736.	3.8	114
20	Developmental alterations in centrosome integrity contribute to the post-mitotic state of mammalian cardiomyocytes. ELife, 2015, 4, .	6.0	105
21	Cardiomyocyte proliferation in cardiac development and regeneration: a guide to methodologies and interpretations. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1237-H1250.	3.2	100
22	Transcriptional Profiling of Caudal Fin Regeneration in Zebrafish. Scientific World Journal, The, 2006, 6, 38-54.	2.1	94
23	Organ-specific function of adhesion G protein-coupled receptor GPR126 is domain-dependent. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16898-16903.	7.1	92
24	TWEAK is a positive regulator of cardiomyocyte proliferation. Cardiovascular Research, 2010, 85, 681-690.	3.8	90
25	ESC Working Group on Cellular Biology of the Heart: position paper for Cardiovascular Research: tissue engineering strategies combined with cell therapies for cardiac repair in ischaemic heart disease and heart failure. Cardiovascular Research, 2019, 115, 488-500.	3.8	90
26	Carbon nanotube doped pericardial matrix derived electroconductive biohybrid hydrogel for cardiac tissue engineering. Biomaterials Science, 2019, 7, 3906-3917.	5.4	83
27	Nanofibrous Composite with Tailorable Electrical and Mechanical Properties for Cardiac Tissue Engineering. Advanced Functional Materials, 2020, 30, 1908612.	14.9	74
28	Cardiomyocyte Cell-Cycle Activity during Preadolescence. Cell, 2015, 163, 781-782.	28.9	66
29	Deletion of Fn14 receptor protects from right heart fibrosis and dysfunction. Basic Research in Cardiology, 2013, 108, 325.	5.9	65
30	Novel therapeutic strategies for cardioprotection. , 2014, 144, 60-70.		64
31	Novel PGS/PCL electrospun fiber mats with patterned topographical features for cardiac patch applications. Materials Science and Engineering C, 2016, 69, 569-576.	7.3	63
32	Mutations in the BAF-Complex Subunit DPF2 Are Associated with Coffin-Siris Syndrome. American Journal of Human Genetics, 2018, 102, 468-479.	6.2	63
33	PPARÎ²/Î´: Linking Metabolism to Regeneration. International Journal of Molecular Sciences, 2018, 19, 2013.	4.1	63
34	Cardiac Deletion of Smyd2 Is Dispensable for Mouse Heart Development. PLoS ONE, 2010, 5, e9748.	2.5	63
35	EGFL7 ligates Î±vÎ²3 integrin to enhance vessel formation. Blood, 2013, 121, 3041-3050.	1.4	62
36	Live cell screening platform identifies PPARÎ´ as a regulator of cardiomyocyte proliferation and cardiac repair. Cell Research, 2017, 27, 1002-1019.	12.0	59

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37	Cardiomyocyte Proliferation: A Platform for Mammalian Cardiac Repair. Cell Cycle, 2005, 4, 1360-1363.	2.6	57
38	Nephronectin regulates atrioventricular canal differentiation via Bmp4-Has2 signaling in zebrafish. Development (Cambridge), 2011, 138, 4499-4509.	2.5	56
39	The Cardiomyocyte Cell Cycle in Hypertrophy, Tissue Homeostasis, and Regeneration. Reviews of Physiology, Biochemistry and Pharmacology, 2013, 165, 67-96.	1.6	55
40	Preparation and characterization of vertically arrayed hydroxyapatite nanoplates on electrospun nanofibers for bone tissue engineering. Chemical Engineering Journal, 2014, 254, 612-622.	12.7	55
41	p21 CIP1 Controls Proliferating Cell Nuclear Antigen Level in Adult Cardiomyocytes. Molecular and Cellular Biology, 2003, 23, 555-565.	2.3	54
42	Improving translational research in sex-specific effects of comorbidities and risk factors in ischaemic heart disease and cardioprotection: position paper and recommendations of the ESC Working Group on Cellular Biology of the Heart. Cardiovascular Research, 2021, 117, 367-385.	3.8	53
43	Advances in heart regeneration based on cardiomyocyte proliferation and regenerative potential of binucleated cardiomyocytes and polyploidization. Clinical Science, 2019, 133, 1229-1253.	4.3	51
44	A Mammalian Myocardial Cell-Free System to Study Cell Cycle Reentry in Terminally Differentiated Cardiomyocytes. Circulation Research, 1999, 85, 294-301.	4.5	50
45	Poly(Glycerol Sebacate)/Poly(Butylene Succinate-Butylene Dilinoleate) Fibrous Scaffolds for Cardiac Tissue Engineering. Tissue Engineering - Part C: Methods, 2015, 21, 585-596.	2.1	47
46	Cardiomyocyte binucleation is associated with aberrant mitotic microtubule distribution, mislocalization of RhoA and IQGAP3, as well as defective actomyosin ring anchorage and cleavage furrow ingression. Cardiovascular Research, 2018, 114, 1115-1131.	3.8	47
47	Towards regenerating the mammalian heart: challenges in evaluating experimentally induced adult mammalian cardiomyocyte proliferation. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H1045-H1054.	3.2	46
48	Surface Features of Recombinant Spider Silk Protein eADF4(Îº16)â€Made Materials are Wellâ€Suited for Cardiac Tissue Engineering. Advanced Functional Materials, 2017, 27, 1701427.	14.9	46
49	Non-professional phagocytosis: a general feature of normal tissue cells. Scientific Reports, 2019, 9, 11875.	3.3	45
50	Microtubule Organization in Striated Muscle Cells. Cells, 2020, 9, 1395.	4.1	45
51	Identification of Chemicals Inducing Cardiomyocyte Proliferation in Developmental Stageâ€"Specific Manner With Pluripotent Stem Cells. Circulation: Cardiovascular Genetics, 2013, 6, 624-633.	5.1	44
52	Changes in glomerular parietal epithelial cells in mouse kidneys with advanced age. American Journal of Physiology - Renal Physiology, 2015, 309, F164-F178.	2.7	42
53	From basic mechanisms to clinical applications in heart protection, new players in cardiovascular diseases and cardiac theranostics: meeting report from the third international symposium on â€œNew frontiers in cardiovascular researchâ€. Basic Research in Cardiology, 2016, 111, 69.	5.9	41
54	GSK3ÃŸâ€dependent dysregulation of neurodevelopment in SPG11â€patient induced pluripotent stem cell model. Annals of Neurology, 2016, 79, 826-840.	5.3	40

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55	Lysine methyltransferase Smyd2 suppresses p53-dependent cardiomyocyte apoptosis. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 2556-2562.	4.1	38
56	TWEAK-Fn14 Cytokine-Receptor Axis: A New Player of Myocardial Remodeling and Cardiac Failure. Frontiers in Immunology, 2014, 5, 50.	4.8	34
57	TWEAK/Fn14 axis is a positive regulator of cardiac hypertrophy. Cytokine, 2013, 64, 43-45.	3.2	33
58	The functional properties of nephronectin: An adhesion molecule for cardiac tissue engineering. Biomaterials, 2012, 33, 4327-4335.	11.4	32
59	Cardiac injury of the newborn mammalian heart accelerates cardiomyocyte terminal differentiation. Scientific Reports, 2017, 7, 8362.	3.3	32
60	Gelatin methacryloyl is a slow degrading material allowing vascularization and long-term use in vivo. Biomedical Materials (Bristol), 2021, 16, 065004.	3.3	32
61	AKAP6 orchestrates the nuclear envelope microtubule-organizing center by linking golgi and nucleus via AKAP9. ELife, 2020, 9, .	6.0	32
62	E2F4 is required for cardiomyocyte proliferation. Cardiovascular Research, 2010, 86, 92-102.	3.8	31
63	FGF1â€mediated cardiomyocyte cell cycle reentry depends on the interaction of FGFRâ€1 and Fn14. FASEB Journal, 2014, 28, 2492-2503.	0.5	30
64	Promoting vascularization for tissue engineering constructs: current strategies focusing on HIF-regulating scaffolds. Expert Opinion on Biological Therapy, 2019, 19, 105-118.	3.1	29
65	Persistent scarring and dilated cardiomyopathy suggest incomplete regeneration of the apex resected neonatal mouse myocardium â€" A 180 days follow up study. Journal of Molecular and Cellular Cardiology, 2016, 90, 47-52.	1.9	27
66	Dipeptidyl Peptidase IV Inhibition Activates CREB and Improves Islet Vascularization through VEGF-A/VEGFR-2 Signaling Pathway. PLoS ONE, 2013, 8, e82639.	2.5	24
67	Vascularisation for cardiac tissue engineering: the extracellular matrix. Thrombosis and Haemostasis, 2015, 113, 532-547.	3.4	24
68	Deletion of Gas2l3 in mice leads to specific defects in cardiomyocyte cytokinesis during development. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8029-8034.	7.1	22
69	Adhesion GPCRs in Kidney Development and Disease. Frontiers in Cell and Developmental Biology, 2018, 6, 9.	3.7	21
70	Recombinant spider silk protein eADF4(C16)-RGD coatings are suitable for cardiac tissue engineering. Scientific Reports, 2020, 10, 8789.	3.3	21
71	Pseudo-bipolar spindle formation and cell division in postnatal binucleated cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2019, 134, 69-73.	1.9	20
72	Designing of spider silk proteins for human induced pluripotent stem cell-based cardiac tissue engineering. Materials Today Bio, 2021, 11, 100114.	5.5	19

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73	The expanding functional roles and signaling mechanisms of adhesion G proteinâ€“coupled receptors. Annals of the New York Academy of Sciences, 2019, 1456, 5-25.	3.8	16
74	Gpr126 (Adgrg6) is expressed in cell types known to be exposed to mechanical stimuli. Annals of the New York Academy of Sciences, 2019, 1456, 96-108.	3.8	15
75	CHIR99021 Promotes hiPSCâ€Derived Cardiomyocyte Proliferation in Engineered 3D Microtissues. Advanced Healthcare Materials, 2021, 10, e2100926.	7.6	14
76	The multiple signaling modalities of adhesion G protein-coupled receptor GPR126 in development. International Journal of Mechanical Engineering and Applications, 2014, 1, 79.	0.3	13
77	IFN-Î³-response mediator GBP-1 represses human cell proliferation by inhibiting the Hippo signaling transcription factor TEAD. Biochemical Journal, 2018, 475, 2955-2967.	3.7	12
78	Stem Cells and Their Cardiac Derivatives for Cardiac Tissue Engineering and Regenerative Medicine. Antioxidants and Redox Signaling, 2021, 35, 143-162.	5.4	12
79	Melatonin as a cardioprotective therapy following ST-segment elevation myocardial infarction: is it really promising? Reply. Cardiovascular Research, 2017, 113, 1418-1419.	3.8	11
80	IQGAP3, a YAP Target, Is Required for Proper Cell-Cycle Progression and Genome Stability. Molecular Cancer Research, 2021, 19, 1712-1726.	3.4	11
81	SMYD2 targets RIPK1 and restricts TNF-induced apoptosis and necroptosis to support colon tumor growth. Cell Death and Disease, 2022, 13, 52.	6.3	11
82	Inferring cell cycle feedback regulation from gene expression data. Journal of Biomedical Informatics, 2011, 44, 565-575.	4.3	9
83	Heart Development, Angiogenesis, and Blood-Brain Barrier Function Is Modulated by Adhesion GPCRs. Handbook of Experimental Pharmacology, 2016, 234, 351-368.	1.8	9
84	Stem Cell Aging and Age-Related Cardiovascular Disease: Perspectives of Treatment by Ex-vivo Stem Cell Rejuvenation. Current Drug Targets, 2015, 16, 780-785.	2.1	8
85	Gene network analysis: from heart development to cardiac therapy. Thrombosis and Haemostasis, 2015, 113, 521-531.	3.4	7
86	Isolation, Culture, and Live-Cell Imaging of Primary Rat Cardiomyocytes. Methods in Molecular Biology, 2021, 2158, 109-124.	0.9	7
87	Improvement of the Layer Adhesion of Composite Cardiac Patches. Advanced Engineering Materials, 2020, 22, 1900986.	3.5	6
88	Myogenin controls via AKAP6 non-centrosomal microtubule-organizing center formation at the nuclear envelope. ELife, 2021, 10, .	6.0	6
89	Isolation of Human Endothelial Cells from Normal Colon and Colorectal Carcinoma - An Improved Protocol. Journal of Visualized Experiments, 2018, , .	0.3	5
90	Human cytomegaloviral multifunctional protein kinase pUL97 impairs zebrafish embryonic development and increases mortality. Scientific Reports, 2019, 9, 7219.	3.3	5

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91	Silk for cardiac tissue engineering. , 2014, , 429-455.		4
92	Alternative Splicing of Pericentrin Contributes to Cell Cycle Control in Cardiomyocytes. Journal of Cardiovascular Development and Disease, 2021, 8, 87.	1.6	4
93	Biomimetic Organicâ€"Inorganic Nanocomposite Scaffolds to Regenerate Cranial Bone Defects in a Rat Animal Model. ACS Biomaterials Science and Engineering, 2022, 8, 1258-1270.	5.2	4
94	GAS2L3: Coordinator of cardiomyocyte cytokinesis?. Cell Cycle, 2017, 16, 1853-1854.	2.6	3
95	miRâ€27a/b is a posttranscriptional regulator of Gpr126 (Adgrg6). Annals of the New York Academy of Sciences, 2019, 1456, 109-121.	3.8	3
96	Functional genomics meta-analysis to identify gene set enrichment networks in cardiac hypertrophy. Biological Chemistry, 2021, 402, 953-972.	2.5	3
97	Stem Cell Secretome and Paracrine Activity. Pancreatic Islet Biology, 2016, , 123-141.	0.3	1
98	Single-cell cardiovascular research. Cardiovascular Research, 2020, 116, 1399-1401.	3.8	0
99	OP6: Gelatin Methacryloyl is a Slow Degrading Material Allowing Vascularization and Long-Term Use In Vivo. Plastic and Reconstructive Surgery - Global Open, 2022, 10, 3-4.	0.6	0