Felix B Engel

List of Publications by Year
in descending order

99 papers	7,263 citations	57631 44 h-index	58464 82 g-index
112 all docs	112 docs citations	112 times ranked	10519 citing authors

#	Article	IF	Citations
1	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.	0.3	0
2	SMYD2 targets RIPK1 and restricts TNF-induced apoptosis and necroptosis to support colon tumor growth. Cell Death and Disease, 2022, 13, 52.	2.7	11
3	Biomimetic Organicâ€“Inorganic Nanocomposite Scaffolds to Regenerate Cranial Bone Defects in a Rat Animal Model. ACS Biomaterials Science and Engineering, 2022, 8, 1258-1270.	2.6	4
4	Stem Cells and Their Cardiac Derivatives for Cardiac Tissue Engineering and Regenerative Medicine. Antioxidants and Redox Signaling, 2021, 35, 143-162.	2.5	12
5	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.	1.8	53
6	Functional genomics meta-analysis to identify gene set enrichment networks in cardiac hypertrophy. Biological Chemistry, 2021, 402, 953-972.	1.2	3
7	Designing of spider silk proteins for human induced pluripotent stem cell-based cardiac tissue engineering. Materials Today Bio, 2021, 11, 100114.	2.6	19
8	IQGAP3, a YAP Target, Is Required for Proper Cell-Cycle Progression and Genome Stability. Molecular Cancer Research, 2021, 19, 1712-1726.	1.5	11
9	Alternative Splicing of Pericentrin Contributes to Cell Cycle Control in Cardiomyocytes. Journal of Cardiovascular Development and Disease, 2021, 8, 87.	0.8	4
10	CHIR99021 Promotes hiPSCâ€Derived Cardiomyocyte Proliferation in Engineered 3D Microtissues. Advanced Healthcare Materials, 2021, 10, e2100926.	3.9	14
11	Gelatin methacryloyl is a slow degrading material allowing vascularization and long-term use in vivo. Biomedical Materials (Bristol), 2021, 16, 065004.	1.7	32
12	Myogenin controls via AKAP6 non-centrosomal microtubule-organizing center formation at the nuclear envelope. ELife, 2021, 10, .	2.8	6
13	Isolation, Culture, and Live-Cell Imaging of Primary Rat Cardiomyocytes. Methods in Molecular Biology, 2021, 2158, 109-124.	0.4	7
14	Improvement of the Layer Adhesion of Composite Cardiac Patches. Advanced Engineering Materials, 2020, 22, 1900986.	1.6	6
15	Nanofibrous Composite with Tailorable Electrical and Mechanical Properties for Cardiac Tissue Engineering. Advanced Functional Materials, 2020, 30, 1908612.	7.8	74
16	Recombinant spider silk protein eADF4(C16)-RGD coatings are suitable for cardiac tissue engineering. Scientific Reports, 2020, 10, 8789.	1.6	21
17	Microtubule Organization in Striated Muscle Cells. Cells, 2020, 9, 1395.	1.8	45
18	Single-cell cardiovascular research. Cardiovascular Research, 2020, 116, 1399-1401.	1.8	0

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19	AKAP6 orchestrates the nuclear envelope microtubule-organizing center by linking golgi and nucleus via AKAP9. ELife, 2020, 9, .	2.8	32
20	Non-professional phagocytosis: a general feature of normal tissue cells. Scientific Reports, 2019, 9, 11875.	1.6	45
21	Carbon nanotube doped pericardial matrix derived electroconductive biohybrid hydrogel for cardiac tissue engineering. Biomaterials Science, 2019, 7, 3906-3917.	2.6	83
22	Pseudo-bipolar spindle formation and cell division in postnatal binucleated cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2019, 134, 69-73.	0.9	20
23	miRâ€27a/b is a posttranscriptional regulator of Gpr126 (Adgrg6). Annals of the New York Academy of Sciences, 2019, 1456, 109-121.	1.8	3
24	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.	1.8	90
25	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.	1.8	15
26	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.	1.8	16
27	Advances in heart regeneration based on cardiomyocyte proliferation and regenerative potential of binucleated cardiomyocytes and polyploidization. Clinical Science, 2019, 133, 1229-1253.	1.8	51
28	Human cytomegaloviral multifunctional protein kinase pUL97 impairs zebrafish embryonic development and increases mortality. Scientific Reports, 2019, 9, 7219.	1.6	5
29	Promoting vascularization for tissue engineering constructs: current strategies focusing on HIF-regulating scaffolds. Expert Opinion on Biological Therapy, 2019, 19, 105-118.	1.4	29
30	Isolation of Human Endothelial Cells from Normal Colon and Colorectal Carcinoma - An Improved Protocol. Journal of Visualized Experiments, 2018, , .	0.2	5
31	Mutations in the BAF-Complex Subunit DPF2 Are Associated with Coffin-Siris Syndrome. American Journal of Human Genetics, 2018, 102, 468-479.	2.6	63
32	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.	1.8	284
33	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.	1.8	47
34	Electroconductive Biohybrid Hydrogel for Enhanced Maturation and Beating Properties of Engineered Cardiac Tissues. Advanced Functional Materials, 2018, 28, 1803951.	7.8	135
35	PPARÎ²/Î´: Linking Metabolism to Regeneration. International Journal of Molecular Sciences, 2018, 19, 2013.	1.8	63
36	Adhesion GPCRs in Kidney Development and Disease. Frontiers in Cell and Developmental Biology, 2018, 6, 9.	1.8	21

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37	IFN-Î³-response mediator GBP-1 represses human cell proliferation by inhibiting the Hippo signaling transcription factor TEAD. Biochemical Journal, 2018, 475, 2955-2967.	1.7	12
38	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.	1.8	114
39	Live cell screening platform identifies PPARÎ´ as a regulator of cardiomyocyte proliferation and cardiac repair. Cell Research, 2017, 27, 1002-1019.	5.7	59
40	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.	1.8	278
41	Cardiac injury of the newborn mammalian heart accelerates cardiomyocyte terminal differentiation. Scientific Reports, 2017, 7, 8362.	1.6	32
42	GAS2L3: Coordinator of cardiomyocyte cytokinesis?. Cell Cycle, 2017, 16, 1853-1854.	1.3	3
43	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.	3.3	22
44	Melatonin as a cardioprotective therapy following ST-segment elevation myocardial infarction: is it really promising? Reply. Cardiovascular Research, 2017, 113, 1418-1419.	1.8	11
45	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.	7.8	46
46	Novel PGS/PCL electrospun fiber mats with patterned topographical features for cardiac patch applications. Materials Science and Engineering C, 2016, 69, 569-576.	3.8	63
47	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.	1.0	210
48	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.	1.5	46
49	GSK3ÃŸâ€dependent dysregulation of neurodevelopment in SPG11â€patient induced pluripotent stem cell model. Annals of Neurology, 2016, 79, 826-840.	2.8	40
50	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.	2.5	41
51	Heart Development, Angiogenesis, and Blood-Brain Barrier Function Is Modulated by Adhesion GPCRs. Handbook of Experimental Pharmacology, 2016, 234, 351-368.	0.9	9
52	Spatially Resolved Genome-wide Transcriptional Profiling Identifies BMP Signaling as Essential Regulator of Zebrafish Cardiomyocyte Regeneration. Developmental Cell, 2016, 36, 36-49.	3.1	176
53	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.	0.9	27
54	Stem Cell Secretome and Paracrine Activity. Pancreatic Islet Biology, 2016, , 123-141.	0.1	1

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55	Vascularisation for cardiac tissue engineering: the extracellular matrix. Thrombosis and Haemostasis, 2015, 113, 532-547.	1.8	24
56	Developmental alterations in centrosome integrity contribute to the post-mitotic state of mammalian cardiomyocytes. ELife, 2015, 4, .	2.8	105
57	Poly(Glycerol Sebacate)/Poly(Butylene Succinate-Butylene Dilinoleate) Fibrous Scaffolds for Cardiac Tissue Engineering. Tissue Engineering - Part C: Methods, 2015, 21, 585-596.	1.1	47
58	International Union of Basic and Clinical Pharmacology. XCIV. Adhesion G Proteinâ€"Coupled Receptors. Pharmacological Reviews, 2015, 67, 338-367.	7.1	392
59	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.	1.5	100
60	Cardiomyocyte Cell-Cycle Activity during Preadolescence. Cell, 2015, 163, 781-782.	13.5	66
61	Changes in glomerular parietal epithelial cells in mouse kidneys with advanced age. American Journal of Physiology - Renal Physiology, 2015, 309, F164-F178.	1.3	42
62	Gene network analysis: from heart development to cardiac therapy. Thrombosis and Haemostasis, 2015, 113, 521-531.	1.8	7
63	Stem Cell Aging and Age-Related Cardiovascular Disease: Perspectives of Treatment by Ex-vivo Stem Cell Rejuvenation. Current Drug Targets, 2015, 16, 780-785.	1.0	8
64	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
65	ESC Working Group Cellular Biology of the Heart: Position Paper: improving the preclinical assessment of novel cardioprotective therapies. Cardiovascular Research, 2014, 104, 399-411.	1.8	143
66	Silk for cardiac tissue engineering. , 2014, , 429-455.		4
67	TWEAK-Fn14 Cytokine-Receptor Axis: A New Player of Myocardial Remodeling and Cardiac Failure. Frontiers in Immunology, 2014, 5, 50.	2.2	34
68	Silk proteins for biomedical applications: Bioengineering perspectives. Progress in Polymer Science, 2014, 39, 251-267.	11.8	364
69	FGF1â€mediated cardiomyocyte cell cycle reentry depends on the interaction of FGFRâ€1 and Fn14. FASEB Journal, 2014, 28, 2492-2503.	0.2	30
70	Novel therapeutic strategies for cardioprotection. , 2014, 144, 60-70.		64
71	Lysine methyltransferase Smyd2 suppresses p53-dependent cardiomyocyte apoptosis. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 2556-2562.	1.9	38
72	Preparation and characterization of vertically arrayed hydroxyapatite nanoplates on electrospun nanofibers for bone tissue engineering. Chemical Engineering Journal, 2014, 254, 612-622.	6.6	55

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73	Deletion of Fn14 receptor protects from right heart fibrosis and dysfunction. Basic Research in Cardiology, 2013, 108, 325.	2.5	65
74	EGFL7 ligates Î±vÎ²3 integrin to enhance vessel formation. Blood, 2013, 121, 3041-3050.	0.6	62
75	TWEAK/Fn14 axis is a positive regulator of cardiac hypertrophy. Cytokine, 2013, 64, 43-45.	1.4	33
76	The Cardiomyocyte Cell Cycle in Hypertrophy, Tissue Homeostasis, and Regeneration. Reviews of Physiology, Biochemistry and Pharmacology, 2013, 165, 67-96.	0.9	55
77	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
78	Gpr126 Functions in Schwann Cells to Control Differentiation and Myelination via G-Protein Activation. Journal of Neuroscience, 2013, 33, 17976-17985.	1.7	159
79	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.	3.3	92
80	Dipeptidyl Peptidase IV Inhibition Activates CREB and Improves Islet Vascularization through VEGF-A/VEGFR-2 Signaling Pathway. PLoS ONE, 2013, 8, e82639.	1.1	24
81	Silk protein fibroin from Antheraea mylitta for cardiac tissue engineering. Biomaterials, 2012, 33, 2673-2680.	5.7	210
82	The functional properties of nephronectin: An adhesion molecule for cardiac tissue engineering. Biomaterials, 2012, 33, 4327-4335.	5.7	32
83	Inferring cell cycle feedback regulation from gene expression data. Journal of Biomedical Informatics, 2011, 44, 565-575.	2.5	9
84	Nephronectin regulates atrioventricular canal differentiation via Bmp4-Has2 signaling in zebrafish. Development (Cambridge), 2011, 138, 4499-4509.	1.2	56
85	TWEAK is a positive regulator of cardiomyocyte proliferation. Cardiovascular Research, 2010, 85, 681-690.	1.8	90
86	E2F4 is required for cardiomyocyte proliferation. Cardiovascular Research, 2010, 86, 92-102.	1.8	31
87	Cardiac Deletion of Smyd2 Is Dispensable for Mouse Heart Development. PLoS ONE, 2010, 5, e9748.	1.1	63
88	Features of cardiomyocyte proliferation and its potential for cardiac regeneration. Journal of Cellular and Molecular Medicine, 2008, 12, 2233-2244.	1.6	114
89	Hypoxia-inducible factor induces local thyroid hormone inactivation during hypoxic-ischemic disease in rats. Journal of Clinical Investigation, 2008, 118, 975-83.	3.9	211
90	Anillin localization defect in cardiomyocyte binucleation. Journal of Molecular and Cellular Cardiology, 2006, 41, 601-612.	0.9	136

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91	Transcriptional Profiling of Caudal Fin Regeneration in Zebrafish. Scientific World Journal, The, 2006, 6, 38-54.	0.8	94
92	The GSK-3 Inhibitor BIO Promotes Proliferation in Mammalian Cardiomyocytes. Chemistry and Biology, 2006, 13, 957-963.	6.2	202
93	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.	3.3	332
94	Cardiomyocyte Proliferation: A Platform for Mammalian Cardiac Repair. Cell Cycle, 2005, 4, 1360-1363.	1.3	57
95	p38 MAP kinase inhibition enables proliferation of adult mammalian cardiomyocytes. Genes and Development, 2005, 19, 1175-1187.	2.7	516
96	New non-viral method for gene transfer into primary cells. Methods, 2004, 33, 151-163.	1.9	216
97	The SRF Target Gene Fhl2 Antagonizes RhoA/MAL-Dependent Activation of SRF. Molecular Cell, 2004, 16, 867-880.	4.5	137
98	p21 CIP1 Controls Proliferating Cell Nuclear Antigen Level in Adult Cardiomyocytes. Molecular and Cellular Biology, 2003, 23, 555-565.	1.1	54
99	A Mammalian Myocardial Cell-Free System to Study Cell Cycle Reentry in Terminally Differentiated Cardiomyocytes. Circulation Research, 1999, 85, 294-301.	2.0	50