

# Felix B Engel

## List of Publications by Year in descending order

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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	OP6: Gelatin Methacryloyl is a Slow Degrading Material Allowing Vascularization and Long-Term Use In Vivo. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2022, 10, 3-4.	0.6	0
2	SMYD2 targets RIPK1 and restricts TNF-induced apoptosis and necroptosis to support colon tumor growth. <i>Cell Death and Disease</i> , 2022, 13, 52.	6.3	11
3	Biomimetic Organic-Inorganic Nanocomposite Scaffolds to Regenerate Cranial Bone Defects in a Rat Animal Model. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1258-1270.	5.2	4
4	Stem Cells and Their Cardiac Derivatives for Cardiac Tissue Engineering and Regenerative Medicine. <i>Antioxidants and Redox Signaling</i> , 2021, 35, 143-162.	5.4	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. <i>Cardiovascular Research</i> , 2021, 117, 367-385.	3.8	53
6	Functional genomics meta-analysis to identify gene set enrichment networks in cardiac hypertrophy. <i>Biological Chemistry</i> , 2021, 402, 953-972.	2.5	3
7	Designing of spider silk proteins for human induced pluripotent stem cell-based cardiac tissue engineering. <i>Materials Today Bio</i> , 2021, 11, 100114.	5.5	19
8	IQGAP3, a YAP Target, Is Required for Proper Cell-Cycle Progression and Genome Stability. <i>Molecular Cancer Research</i> , 2021, 19, 1712-1726.	3.4	11
9	Alternative Splicing of Pericentrin Contributes to Cell Cycle Control in Cardiomyocytes. <i>Journal of Cardiovascular Development and Disease</i> , 2021, 8, 87.	1.6	4
10	CHIR99021 Promotes hiPSC-Derived Cardiomyocyte Proliferation in Engineered 3D Microtissues. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100926.	7.6	14
11	Gelatin methacryloyl is a slow degrading material allowing vascularization and long-term use in vivo. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 065004.	3.3	32
12	Myogenin controls via AKAP6 non-centrosomal microtubule-organizing center formation at the nuclear envelope. <i>ELife</i> , 2021, 10, .	6.0	6
13	Isolation, Culture, and Live-Cell Imaging of Primary Rat Cardiomyocytes. <i>Methods in Molecular Biology</i> , 2021, 2158, 109-124.	0.9	7
14	Improvement of the Layer Adhesion of Composite Cardiac Patches. <i>Advanced Engineering Materials</i> , 2020, 22, 1900986.	3.5	6
15	Nanofibrous Composite with Tailorable Electrical and Mechanical Properties for Cardiac Tissue Engineering. <i>Advanced Functional Materials</i> , 2020, 30, 1908612.	14.9	74
16	Recombinant spider silk protein eADF4(C16)-RGD coatings are suitable for cardiac tissue engineering. <i>Scientific Reports</i> , 2020, 10, 8789.	3.3	21
17	Microtubule Organization in Striated Muscle Cells. <i>Cells</i> , 2020, 9, 1395.	4.1	45
18	Single-cell cardiovascular research. <i>Cardiovascular Research</i> , 2020, 116, 1399-1401.	3.8	0

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19	AKAP6 orchestrates the nuclear envelope microtubule-organizing center by linking golgi and nucleus via AKAP9. <i>ELife</i> , 2020, 9, .	6.0	32
20	Non-professional phagocytosis: a general feature of normal tissue cells. <i>Scientific Reports</i> , 2019, 9, 11875.	3.3	45
21	Carbon nanotube doped pericardial matrix derived electroconductive biohybrid hydrogel for cardiac tissue engineering. <i>Biomaterials Science</i> , 2019, 7, 3906-3917.	5.4	83
22	Pseudo-bipolar spindle formation and cell division in postnatal binucleated cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 134, 69-73.	1.9	20
23	miR-27a/b is a posttranscriptional regulator of Gpr126 ( Adgrg6 ). <i>Annals of the New York Academy of Sciences</i> , 2019, 1456, 109-121.	3.8	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. <i>Cardiovascular Research</i> , 2019, 115, 488-500.	3.8	90
25	Gpr126 (Adgrg6) is expressed in cell types known to be exposed to mechanical stimuli. <i>Annals of the New York Academy of Sciences</i> , 2019, 1456, 96-108.	3.8	15
26	The expanding functional roles and signaling mechanisms of adhesion G protein-coupled receptors. <i>Annals of the New York Academy of Sciences</i> , 2019, 1456, 5-25.	3.8	16
27	Advances in heart regeneration based on cardiomyocyte proliferation and regenerative potential of binucleated cardiomyocytes and polyploidization. <i>Clinical Science</i> , 2019, 133, 1229-1253.	4.3	51
28	Human cytomegaloviral multifunctional protein kinase pUL97 impairs zebrafish embryonic development and increases mortality. <i>Scientific Reports</i> , 2019, 9, 7219.	3.3	5
29	Promoting vascularization for tissue engineering constructs: current strategies focusing on HIF-regulating scaffolds. <i>Expert Opinion on Biological Therapy</i> , 2019, 19, 105-118.	3.1	29
30	Isolation of Human Endothelial Cells from Normal Colon and Colorectal Carcinoma - An Improved Protocol. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	5
31	Mutations in the BAF-Complex Subunit DPF2 Are Associated with Coffin-Siris Syndrome. <i>American Journal of Human Genetics</i> , 2018, 102, 468-479.	6.2	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. <i>Cardiovascular Research</i> , 2018, 114, 19-34.	3.8	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. <i>Cardiovascular Research</i> , 2018, 114, 1115-1131.	3.8	47
34	Electroconductive Biohybrid Hydrogel for Enhanced Maturation and Beating Properties of Engineered Cardiac Tissues. <i>Advanced Functional Materials</i> , 2018, 28, 1803951.	14.9	135
35	PPAR $\delta$ : Linking Metabolism to Regeneration. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2013.	4.1	63
36	Adhesion GPCRs in Kidney Development and Disease. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 9.	3.7	21

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37	IFN- $\beta$ -response mediator GBP-1 represses human cell proliferation by inhibiting the Hippo signaling transcription factor TEAD. <i>Biochemical Journal</i> , 2018, 475, 2955-2967.	3.7	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. <i>Cardiovascular Research</i> , 2017, 113, 725-736.	3.8	114
39	Live cell screening platform identifies PPAR $\alpha$ as a regulator of cardiomyocyte proliferation and cardiac repair. <i>Cell Research</i> , 2017, 27, 1002-1019.	12.0	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. <i>Cardiovascular Research</i> , 2017, 113, 564-585.	3.8	278
41	Cardiac injury of the newborn mammalian heart accelerates cardiomyocyte terminal differentiation. <i>Scientific Reports</i> , 2017, 7, 8362.	3.3	32
42	GAS2L3: Coordinator of cardiomyocyte cytokinesis?. <i>Cell Cycle</i> , 2017, 16, 1853-1854.	2.6	3
43	Deletion of Gas2l3 in mice leads to specific defects in cardiomyocyte cytokinesis during development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8029-8034.	7.1	22
44	Melatonin as a cardioprotective therapy following ST-segment elevation myocardial infarction: is it really promising? Reply. <i>Cardiovascular Research</i> , 2017, 113, 1418-1419.	3.8	11
45	Surface Features of Recombinant Spider Silk Protein eADF4( $\beta$ 16) Made Materials are Well Suited for Cardiac Tissue Engineering. <i>Advanced Functional Materials</i> , 2017, 27, 1701427.	14.9	46
46	Novel PGS/PCL electrospun fiber mats with patterned topographical features for cardiac patch applications. <i>Materials Science and Engineering C</i> , 2016, 69, 569-576.	7.3	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. <i>European Heart Journal</i> , 2016, 37, 1789-1798.	2.2	210
48	Towards regenerating the mammalian heart: challenges in evaluating experimentally induced adult mammalian cardiomyocyte proliferation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1045-H1054.	3.2	46
49	GSK3 $\beta$ -dependent dysregulation of neurodevelopment in SPG11 patient induced pluripotent stem cell model. <i>Annals of Neurology</i> , 2016, 79, 826-840.	5.3	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 "New frontiers in cardiovascular research". <i>Basic Research in Cardiology</i> , 2016, 111, 69.	5.9	41
51	Heart Development, Angiogenesis, and Blood-Brain Barrier Function Is Modulated by Adhesion GPCRs. <i>Handbook of Experimental Pharmacology</i> , 2016, 234, 351-368.	1.8	9
52	Spatially Resolved Genome-wide Transcriptional Profiling Identifies BMP Signaling as Essential Regulator of Zebrafish Cardiomyocyte Regeneration. <i>Developmental Cell</i> , 2016, 36, 36-49.	7.0	176
53	Persistent scarring and dilated cardiomyopathy suggest incomplete regeneration of the apex resected neonatal mouse myocardium - A 180 days follow up study. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 90, 47-52.	1.9	27
54	Stem Cell Secretome and Paracrine Activity. <i>Pancreatic Islet Biology</i> , 2016, , 123-141.	0.3	1

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55	Vascularisation for cardiac tissue engineering: the extracellular matrix. <i>Thrombosis and Haemostasis</i> , 2015, 113, 532-547.	3.4	24
56	Developmental alterations in centrosome integrity contribute to the post-mitotic state of mammalian cardiomyocytes. <i>ELife</i> , 2015, 4, .	6.0	105
57	Poly(Glycerol Sebacate)/Poly(Butylene Succinate-Butylene Dilinoleate) Fibrous Scaffolds for Cardiac Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 585-596.	2.1	47
58	International Union of Basic and Clinical Pharmacology. XCIV. Adhesion G Proteinâ€“Coupled Receptors. <i>Pharmacological Reviews</i> , 2015, 67, 338-367.	16.0	392
59	Cardiomyocyte proliferation in cardiac development and regeneration: a guide to methodologies and interpretations. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H1237-H1250.	3.2	100
60	Cardiomyocyte Cell-Cycle Activity during Preadolescence. <i>Cell</i> , 2015, 163, 781-782.	28.9	66
61	Changes in glomerular parietal epithelial cells in mouse kidneys with advanced age. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, F164-F178.	2.7	42
62	Gene network analysis: from heart development to cardiac therapy. <i>Thrombosis and Haemostasis</i> , 2015, 113, 521-531.	3.4	7
63	Stem Cell Aging and Age-Related Cardiovascular Disease: Perspectives of Treatment by Ex-vivo Stem Cell Rejuvenation. <i>Current Drug Targets</i> , 2015, 16, 780-785.	2.1	8
64	The multiple signaling modalities of adhesion G protein-coupled receptor GPR126 in development. <i>International Journal of Mechanical Engineering and Applications</i> , 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. <i>Cardiovascular Research</i> , 2014, 104, 399-411.	3.8	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. <i>Frontiers in Immunology</i> , 2014, 5, 50.	4.8	34
68	Silk proteins for biomedical applications: Bioengineering perspectives. <i>Progress in Polymer Science</i> , 2014, 39, 251-267.	24.7	364
69	FGF1â€“mediated cardiomyocyte cell cycle reentry depends on the interaction of FGFRâ€“1 and Fn14. <i>FASEB Journal</i> , 2014, 28, 2492-2503.	0.5	30
70	Novel therapeutic strategies for cardioprotection. , 2014, 144, 60-70.		64
71	Lysine methyltransferase Smyd2 suppresses p53-dependent cardiomyocyte apoptosis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2556-2562.	4.1	38
72	Preparation and characterization of vertically arrayed hydroxyapatite nanoplates on electrospun nanofibers for bone tissue engineering. <i>Chemical Engineering Journal</i> , 2014, 254, 612-622.	12.7	55

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73	Deletion of Fn14 receptor protects from right heart fibrosis and dysfunction. <i>Basic Research in Cardiology</i> , 2013, 108, 325.	5.9	65
74	EGFL7 ligates $\alpha 3$ integrin to enhance vessel formation. <i>Blood</i> , 2013, 121, 3041-3050.	1.4	62
75	TWEAK/Fn14 axis is a positive regulator of cardiac hypertrophy. <i>Cytokine</i> , 2013, 64, 43-45.	3.2	33
76	The Cardiomyocyte Cell Cycle in Hypertrophy, Tissue Homeostasis, and Regeneration. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , 2013, 165, 67-96.	1.6	55
77	Identification of Chemicals Inducing Cardiomyocyte Proliferation in Developmental Stage-Specific Manner With Pluripotent Stem Cells. <i>Circulation: Cardiovascular Genetics</i> , 2013, 6, 624-633.	5.1	44
78	Gpr126 Functions in Schwann Cells to Control Differentiation and Myelination via G-Protein Activation. <i>Journal of Neuroscience</i> , 2013, 33, 17976-17985.	3.6	159
79	Organ-specific function of adhesion G protein-coupled receptor GPR126 is domain-dependent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16898-16903.	7.1	92
80	Dipeptidyl Peptidase IV Inhibition Activates CREB and Improves Islet Vascularization through VEGF-A/VEGFR-2 Signaling Pathway. <i>PLoS ONE</i> , 2013, 8, e82639.	2.5	24
81	Silk protein fibroin from <i>Antheraea mylitta</i> for cardiac tissue engineering. <i>Biomaterials</i> , 2012, 33, 2673-2680.	11.4	210
82	The functional properties of nephronectin: An adhesion molecule for cardiac tissue engineering. <i>Biomaterials</i> , 2012, 33, 4327-4335.	11.4	32
83	Inferring cell cycle feedback regulation from gene expression data. <i>Journal of Biomedical Informatics</i> , 2011, 44, 565-575.	4.3	9
84	Nephronectin regulates atrioventricular canal differentiation via Bmp4-Has2 signaling in zebrafish. <i>Development (Cambridge)</i> , 2011, 138, 4499-4509.	2.5	56
85	TWEAK is a positive regulator of cardiomyocyte proliferation. <i>Cardiovascular Research</i> , 2010, 85, 681-690.	3.8	90
86	E2F4 is required for cardiomyocyte proliferation. <i>Cardiovascular Research</i> , 2010, 86, 92-102.	3.8	31
87	Cardiac Deletion of Smyd2 Is Dispensable for Mouse Heart Development. <i>PLoS ONE</i> , 2010, 5, e9748.	2.5	63
88	Features of cardiomyocyte proliferation and its potential for cardiac regeneration. <i>Journal of Cellular and Molecular Medicine</i> , 2008, 12, 2233-2244.	3.6	114
89	Hypoxia-inducible factor induces local thyroid hormone inactivation during hypoxic-ischemic disease in rats. <i>Journal of Clinical Investigation</i> , 2008, 118, 975-83.	8.2	211
90	Anillin localization defect in cardiomyocyte binucleation. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 41, 601-612.	1.9	136

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91	Transcriptional Profiling of Caudal Fin Regeneration in Zebrafish. <i>Scientific World Journal</i> , The, 2006, 6, 38-54.	2.1	94
92	The GSK-3 Inhibitor BIO Promotes Proliferation in Mammalian Cardiomyocytes. <i>Chemistry and Biology</i> , 2006, 13, 957-963.	6.0	202
93	FGF1/p38 MAP kinase inhibitor therapy induces cardiomyocyte mitosis, reduces scarring, and rescues function after myocardial infarction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15546-15551.	7.1	332
94	Cardiomyocyte Proliferation: A Platform for Mammalian Cardiac Repair. <i>Cell Cycle</i> , 2005, 4, 1360-1363.	2.6	57
95	p38 MAP kinase inhibition enables proliferation of adult mammalian cardiomyocytes. <i>Genes and Development</i> , 2005, 19, 1175-1187.	5.9	516
96	New non-viral method for gene transfer into primary cells. <i>Methods</i> , 2004, 33, 151-163.	3.8	216
97	The SRF Target Gene Fhl2 Antagonizes RhoA/MAL-Dependent Activation of SRF. <i>Molecular Cell</i> , 2004, 16, 867-880.	9.7	137
98	p21 CIP1 Controls Proliferating Cell Nuclear Antigen Level in Adult Cardiomyocytes. <i>Molecular and Cellular Biology</i> , 2003, 23, 555-565.	2.3	54
99	A Mammalian Myocardial Cell-Free System to Study Cell Cycle Reentry in Terminally Differentiated Cardiomyocytes. <i>Circulation Research</i> , 1999, 85, 294-301.	4.5	50