

Stefan A Przyborski

List of Publications by Year in descending order

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73
papers

4,994
citations

116194

36
h-index

104191

69
g-index

77
all docs

77
docs citations

77
times ranked

7497
citing authors

#	ARTICLE	IF	CITATIONS
1	Tissue engineering strategies to bioengineer the ageing skin phenotype in vitro. <i>Aging Cell</i> , 2022, 21, e13550.	3.0	7
2	The vitamin A ester retinyl propionate has a unique metabolic profile and higher retinoid-related bioactivity over retinol and retinyl palmitate in human skin models. <i>Experimental Dermatology</i> , 2021, 30, 226-236.	1.4	16
3	Using Advanced Cell Culture Techniques to Differentiate Pluripotent Stem Cells and Recreate Tissue Structures Representative of Teratoma Xenografts. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 667246.	1.8	3
4	Use of Porous Polystyrene Scaffolds to Bioengineer Human Epithelial Tissues In Vitro. <i>Methods in Molecular Biology</i> , 2021, 2273, 279-296.	0.4	7
5	Applying Stirred Perfusion to 3D Tissue Equivalents to Mimic the Dynamic In Vivo Microenvironment. <i>Methods in Molecular Biology</i> , 2021, , 241-256.	0.4	1
6	Bioengineering Novel in vitro Co-culture Models That Represent the Human Intestinal Mucosa With Improved Caco-2 Structure and Barrier Function. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 992.	2.0	42
7	Applications of novel bioreactor technology to enhance the viability and function of cultured cells and tissues. <i>Interface Focus</i> , 2020, 10, 20190090.	1.5	9
8	Multiple scattering in scanning helium microscopy. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	10
9	Engineering a Multilayered Skin Equivalent: The Importance of Endogenous Extracellular Matrix Maturation to Provide Robustness and Reproducibility. <i>Methods in Molecular Biology</i> , 2019, 1993, 107-122.	0.4	7
10	Optimized peptide functionalization of thiol-acrylate emulsion-templated porous polymers leads to expansion of human pluripotent stem cells in 3D culture. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1974-1981.	2.5	14
11	Bioengineering the microanatomy of human skin. <i>Journal of Anatomy</i> , 2019, 234, 438-455.	0.9	91
12	Probing biological activity through structural modelling of ligand-receptor interactions of 2,4-disubstituted thiazole retinoids. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 1560-1572.	1.4	13
13	Neurogenesis in Response to Synthetic Retinoids at Different Temporal Scales. <i>Molecular Neurobiology</i> , 2018, 55, 1942-1950.	1.9	10
14	The utility of stem cells for neural regeneration. <i>Brain and Neuroscience Advances</i> , 2018, 2, 239821281881807.	1.8	5
15	A robust and reproducible human pluripotent stem cell derived model of neurite outgrowth in a three-dimensional culture system and its application to study neurite inhibition. <i>Neurochemistry International</i> , 2017, 106, 74-84.	1.9	15
16	Fully biodegradable and biocompatible emulsion templated polymer scaffolds by thiol-acrylate polymerization of polycaprolactone macromonomers. <i>Polymer Chemistry</i> , 2015, 6, 7256-7263.	1.9	60
17	Neuronal-glia populations form functional networks in a biocompatible 3D scaffold. <i>Neuroscience Letters</i> , 2015, 609, 198-202.	1.0	30
18	Advances in 3D cell culture technologies enabling tissue-like structures to be created <i>in vitro</i> . <i>Journal of Anatomy</i> , 2015, 227, 746-756.	0.9	392

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19	A Novel Fully Humanized 3D Skin Equivalent to Model Early Melanoma Invasion. <i>Molecular Cancer Therapeutics</i> , 2015, 14, 2665-2673.	1.9	72
20	Application of synthetic photostable retinoids induces novel limb and facial phenotypes during chick embryogenesis <i>in vivo</i> . <i>Journal of Anatomy</i> , 2014, 224, 392-411.	0.9	4
21	Recent advances in 2D and 3D <i>in vitro</i> systems using primary hepatocytes, alternative hepatocyte sources and non-parenchymal liver cells and their use in investigating mechanisms of hepatotoxicity, cell signaling and ADME. <i>Archives of Toxicology</i> , 2013, 87, 1315-1530.	1.9	1,089
22	Acrylic Acid-Functionalized PolyHIPE Scaffolds for Use in 3D Cell Culture. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1844-1849.	2.0	53
23	Brief Report: Human Pluripotent Stem Cell Models of Fanconi Anemia Deficiency Reveal an Important Role for Fanconi Anemia Proteins in Cellular Reprogramming and Survival of Hematopoietic Progenitors. <i>Stem Cells</i> , 2013, 31, 1022-1029.	1.4	51
24	The action of all-trans-retinoic acid (ATRA) and synthetic retinoid analogues (EC19 and EC23) on human pluripotent stem cells differentiation investigated using single cell infrared microspectroscopy. <i>Molecular BioSystems</i> , 2013, 9, 677.	2.9	25
25	Galactose-Functionalized PolyHIPE Scaffolds for Use in Routine Three Dimensional Culture of Mammalian Hepatocytes. <i>Biomacromolecules</i> , 2013, 14, 4271-4277.	2.6	52
26	Design and biological evaluation of synthetic retinoids: probing length vs. stability vs. activity. <i>Molecular BioSystems</i> , 2013, 9, 3124.	2.9	24
27	Synthesis and applications of 2,4-disubstituted thiazole derivatives as small molecule modulators of cellular development. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 2323.	1.5	10
28	Generation of proliferating human hepatocytes using upcyte [®] technology: characterisation and applications in induction and cytotoxicity assays. <i>Xenobiotica</i> , 2012, 42, 939-956.	0.5	56
29	Degradable emulsion-templated scaffolds for tissue engineering from thiol-ene photopolymerisation. <i>Soft Matter</i> , 2012, 8, 10344.	1.2	100
30	Derivation and Functional Analysis of Patient-Specific Induced Pluripotent Stem Cells as an <i>In Vitro</i> Model of Chronic Granulomatous Disease. <i>Stem Cells</i> , 2012, 30, 599-611.	1.4	69
31	Neuropharmacological properties of neurons derived from human stem cells. <i>Neurochemistry International</i> , 2011, 59, 404-412.	1.9	22
32	Role of mesenchymal stem cells in neurogenesis and nervous system repair. <i>Neurochemistry International</i> , 2011, 59, 347-56.	1.9	125
33	Top-down label-free LC-MALDI analysis of the peptidome during neural progenitor cell differentiation reveals complexity in cytoskeletal protein dynamics and identifies progenitor cell markers. <i>Proteomics</i> , 2011, 11, 3992-4006.	1.3	12
34	Novel Silicon-Containing Analogues of the Retinoid Agonist Bexarotene: Syntheses and Biological Effects on Human Pluripotent Stem Cells. <i>ChemMedChem</i> , 2011, 6, 1509-1517.	1.6	26
35	Rat Primary Hepatocytes Show Enhanced Performance and Sensitivity to Acetaminophen During Three-Dimensional Culture on a Polystyrene Scaffold Designed for Routine Use. <i>Assay and Drug Development Technologies</i> , 2011, 9, 475-486.	0.6	68
36	Alvetex [®] : Polystyrene Scaffold Technology for Routine Three Dimensional Cell Culture. <i>Methods in Molecular Biology</i> , 2011, 695, 323-340.	0.4	59

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37	The Development of Small Molecules and Growth Supplements to Control the Differentiation of Stem Cells and the Formation of Neural Tissues. <i>Pancreatic Islet Biology</i> , 2011, , 499-513.	0.1	0
38	Neural differentiation regulated by biomimetic surfaces presenting motifs of extracellular matrix proteins. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 824-832.	2.1	33
39	Retinoid supplementation of differentiating human neural progenitors and embryonic stem cells leads to enhanced neurogenesis in vitro. <i>Journal of Neuroscience Methods</i> , 2010, 193, 239-245.	1.3	25
40	Developments in three-dimensional cell culture technology aimed at improving the accuracy of <i>in vitro</i> analyses. <i>Biochemical Society Transactions</i> , 2010, 38, 1072-1075.	1.6	101
41	Synthetic Retinoids: Structure–Activity Relationships. <i>Chemistry - A European Journal</i> , 2009, 15, 11430-11442.	1.7	53
42	Mesenchymal stem cells expressing neural antigens instruct a neurogenic cell fate on neural stem cells. <i>Experimental Neurology</i> , 2009, 216, 329-341.	2.0	53
43	Proteomic profiling of the stem cell response to retinoic acid and synthetic retinoid analogues: identification of major retinoid-inducible proteins. <i>Molecular BioSystems</i> , 2009, 5, 458.	2.9	20
44	Enhanced cell attachment using a novel cell culture surface presenting functional domains from extracellular matrix proteins. <i>Cytotechnology</i> , 2008, 56, 71-79.	0.7	74
45	Advances in Stem Cell Biology – an ASGBI International Conference held at Durham University. <i>Journal of Anatomy</i> , 2008, 213, 1-4.	0.9	0
46	Synthesis and evaluation of synthetic retinoid derivatives as inducers of stem cell differentiation. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 3497.	1.5	56
47	The Role of Retinoids in the Adult Nervous System and their Therapeutic Potential. <i>Mini-Reviews in Medicinal Chemistry</i> , 2008, 8, 601-608.	1.1	9
48	Application of proteomic technology to neural stem cell science and neurology. <i>Future Neurology</i> , 2007, 2, 285-296.	0.9	0
49	Isolation of Human Embryonic Stem Cell–Derived Teratomas for the Assessment of Pluripotency. <i>Current Protocols in Stem Cell Biology</i> , 2007, 3, Unit1B.4.	3.0	48
50	Novel cell culture device enabling three-dimensional cell growth and improved cell function. <i>Biochemical and Biophysical Research Communications</i> , 2007, 354, 1095-1100.	1.0	98
51	Emulsion-templated porous polymers as scaffolds for three dimensional cell culture: effect of synthesis parameters on scaffold formation and homogeneity. <i>Journal of Materials Chemistry</i> , 2007, 17, 4088.	6.7	94
52	Culture of HepG2 liver cells on three dimensional polystyrene scaffolds enhances cell structure and function during toxicological challenge. <i>Journal of Anatomy</i> , 2007, 211, 567-576.	0.9	179
53	Tailoring the morphology of emulsion-templated porous polymers. <i>Soft Matter</i> , 2006, 2, 608.	1.2	179
54	Formation of Neurons by Non-Neural Adult Stem Cells: Potential Mechanism Implicates an Artifact of Growth in Culture. <i>Stem Cells</i> , 2006, 24, 1841-1851.	1.4	84

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55	Following the Differentiation of Human Pluripotent Stem Cells by Proteomic Identification of Biomarkers. <i>Stem Cells and Development</i> , 2006, 15, 221-231.	1.1	11
56	Transcription Factor IIA β Is Associated with Undifferentiated Cells and Its Gene Expression Is Repressed in Primary Neurons at the Chromatin Level In Vivo. <i>Stem Cells and Development</i> , 2006, 15, 175-190.	1.1	4
57	Growth of Teratomas Derived from Human Pluripotent Stem Cells Is Influenced by the Graft Site. <i>Stem Cells and Development</i> , 2006, 15, 254-259.	1.1	104
58	Neural Development by Transplanted Human Embryonal Carcinoma Stem Cells Expressing Green Fluorescent Protein. <i>Cell Transplantation</i> , 2005, 14, 339-351.	1.2	6
59	An Autogenic Feeder Cell System That Efficiently Supports Growth of Undifferentiated Human Embryonic Stem Cells. <i>Stem Cells</i> , 2005, 23, 306-314.	1.4	222
60	Differentiation of Human Embryonic Stem Cells After Transplantation in Immune-Deficient Mice. <i>Stem Cells</i> , 2005, 23, 1242-1250.	1.4	145
61	Growth of human stem cell-derived neurons on solid three-dimensional polymers. <i>Journal of Proteomics</i> , 2005, 62, 231-240.	2.4	129
62	Derivation of Human Embryonic Stem Cells from Day-8 Blastocysts Recovered after Three-Step In Vitro Culture. <i>Stem Cells</i> , 2004, 22, 790-797.	1.4	158
63	Human Embryonal Carcinoma Stem Cells Expressing Green Fluorescent Protein Form Functioning Neurons In Vitro: A Research Tool for Co-culture Studies. <i>Stem Cells and Development</i> , 2004, 13, 646-657.	1.1	18
64	Human Embryonal Carcinoma Stem Cells: Models of Embryonic Development in Humans. <i>Stem Cells and Development</i> , 2004, 13, 400-408.	1.1	75
65	Enhanced neurite outgrowth by human neurons grown on solid three-dimensional scaffolds. <i>Biochemical and Biophysical Research Communications</i> , 2004, 314, 483-488.	1.0	93
66	Proteomic identification of biomarkers expressed by human pluripotent stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2004, 316, 918-923.	1.0	37
67	Formation of neurospheres from human embryonal carcinoma stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2003, 304, 411-416.	1.0	20
68	Non-neural adult stem cells: tools for brain repair?. <i>BioEssays</i> , 2002, 24, 708-713.	1.2	27
69	Isolation of Human Embryonal Carcinoma Stem Cells by Immunomagnetic Sorting. <i>Stem Cells</i> , 2001, 19, 500-504.	1.4	39
70	Developmental regulation of neurogenesis in the pluripotent human embryonal carcinoma cell line NTERA-2. <i>European Journal of Neuroscience</i> , 2000, 12, 3521-3528.	1.2	86
71	Developmental regulation of MAP2 variants during neuronal differentiation in vitro. <i>Developmental Brain Research</i> , 1995, 89, 187-201.	2.1	42
72	Developmental changes in GAP-43 expression in primary cultures of rat cerebellar granule cells. <i>Molecular Brain Research</i> , 1994, 25, 273-285.	2.5	21

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73	Derivation and Culture of Human Embryonal Carcinoma Stem Cell Lines. , 0, , 133-158.		2