

Randolph S Ashton

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

2,143
citations

394421

19
h-index

552781

26
g-index

33
all docs

33
docs citations

33
times ranked

3785
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of hydrogel modulus on the proliferation and differentiation of encapsulated neural stem cells. <i>Biomaterials</i> , 2009, 30, 4695-4699.	11.4	577
2	Scaffolds based on degradable alginate hydrogels and poly(lactide-co-glycolide) microspheres for stem cell culture. <i>Biomaterials</i> , 2007, 28, 5518-5525.	11.4	194
3	Astrocytes regulate adult hippocampal neurogenesis through ephrin-B signaling. <i>Nature Neuroscience</i> , 2012, 15, 1399-1406.	14.8	194
4	A 3D culture model of innervated human skeletal muscle enables studies of the adult neuromuscular junction. <i>ELife</i> , 2019, 8, .	6.0	169
5	Deterministic HOX Patterning in Human Pluripotent Stem Cell-Derived Neuroectoderm. <i>Stem Cell Reports</i> , 2015, 4, 632-644.	4.8	162
6	Micropattern width dependent sarcomere development in human ESC-derived cardiomyocytes. <i>Biomaterials</i> , 2014, 35, 4454-4464.	11.4	135
7	Defined Human Pluripotent Stem Cell Culture Enables Highly Efficient Neuroepithelium Derivation Without Small Molecule Inhibitors. <i>Stem Cells</i> , 2014, 32, 1032-1042.	3.2	116
8	Engineering induction of singular neural rosette emergence within hPSC-derived tissues. <i>ELife</i> , 2018, 7, .	6.0	81
9	TFG facilitates outer coat disassembly on COPII transport carriers to promote tethering and fusion with ERâ€™ Golgi intermediate compartments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7707-E7716.	7.1	65
10	The effect of multivalent Sonic hedgehog on differentiation of human embryonic stem cells into dopaminergic and GABAergic neurons. <i>Biomaterials</i> , 2014, 35, 941-948.	11.4	52
11	The case for applying tissue engineering methodologies to instruct human organoid morphogenesis. <i>Acta Biomaterialia</i> , 2017, 54, 35-44.	8.3	51
12	Multivalency of Sonic Hedgehog Conjugated to Linear Polymer Chains Modulates Protein Potency. <i>Bioconjugate Chemistry</i> , 2008, 19, 806-812.	3.6	50
13	Multifunctional drug nanocarriers formed by cRGD-conjugated ¹²⁵ I-CD-PAMAM-PEG for targeted cancer therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 590-597.	5.0	38
14	New ideas for non-animal approaches to predict repeated-dose systemic toxicity: Report from an EPAA Blue Sky Workshop. <i>Regulatory Toxicology and Pharmacology</i> , 2020, 114, 104668.	2.7	33
15	Sequential Nucleophilic Substitutions Permit Orthogonal Click Functionalization of Multicomponent PEG Brushes. <i>Biomacromolecules</i> , 2013, 14, 3294-3303.	5.4	32
16	Progress and Prospects for Stem Cell Engineering. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2011, 2, 479-502.	6.8	31
17	High-Throughput Screening of Gene Function in Stem Cells Using Clonal Microarrays. <i>Stem Cells</i> , 2007, 25, 2928-2935.	3.2	22
18	Micro-injection molded, poly(vinyl alcohol)-calcium salt templates for precise customization of 3D hydrogel internal architecture. <i>Acta Biomaterialia</i> , 2019, 95, 258-268.	8.3	22

#	ARTICLE	IF	CITATIONS
19	Bioengineering tissue morphogenesis and function in human neural organoids. <i>Seminars in Cell and Developmental Biology</i> , 2021, 111, 52-59.	5.0	22
20	High-precision robotic microcontact printing (R-1/4CP) utilizing a vision guided selectively compliant articulated robotic arm. <i>Lab on A Chip</i> , 2014, 14, 1923.	6.0	20
21	The scanning gradient Fourier transform (SGFT) method for assessing sarcomere organization and alignment. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	16
22	Inferring Regulatory Programs Governing Region Specificity of Neuroepithelial Stem Cells during Early Hindbrain and Spinal Cord Development. <i>Cell Systems</i> , 2019, 9, 167-186.e12.	6.2	13
23	Fabricating Complex Culture Substrates Using Robotic Microcontact Printing (R-1/4CP) and Sequential Nucleophilic Substitution. <i>Journal of Visualized Experiments</i> , 2014, , e52186.	0.3	9
24	Deriving, regenerating, and engineering CNS tissues using human pluripotent stem cells. <i>Current Opinion in Biotechnology</i> , 2017, 47, 36-42.	6.6	7
25	Tracking and Predicting Human Somatic Cell Reprogramming Using Nuclear Characteristics. <i>Biophysical Journal</i> , 2020, 118, 2086-2102.	0.5	6
26	Single-injection ex ovo transplantation method for broad spinal cord engraftment of human pluripotent stem cell-derived motor neurons. <i>Journal of Neuroscience Methods</i> , 2018, 298, 16-23.	2.5	2
27	Methods for Controlled Induction of Singular Rosette Cytoarchitecture Within Human Pluripotent Stem Cell-Derived Neural Multicellular Assemblies. <i>Methods in Molecular Biology</i> , 2021, 2258, 193-203.	0.9	1