

Lee D Buttery

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82
papers

6,856
citations

38
h-index

82
g-index

86
ext. papers

7,263
ext. citations

4.6
avg, IF

5.22
L-index

#	Paper	IF	Citations
82	Localized Induction of Gene Expression in Embryonic Stem Cell Aggregates Using Holographic Optical Tweezers to Create Biochemical Gradients. <i>Regenerative Engineering and Translational Medicine</i> , 2020 , 6, 251-261	2.4	1
81	Tuning the conformation of synthetic co-polypeptides of serine and glutamic acid through control over polymer composition. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 2331-2336	2.5	0
80	Investigation of localized delivery of diclofenac sodium from poly(D,L-lactic acid-co-glycolic acid)/poly(ethylene glycol) scaffolds using an in vitro osteoblast inflammation model. <i>Tissue Engineering - Part A</i> , 2015 , 21, 362-73	3.9	24
79	Precision assembly of complex cellular microenvironments using holographic optical tweezers. <i>Scientific Reports</i> , 2015 , 5, 8577	4.9	64
78	Revealing cytokine-induced changes in the extracellular matrix with secondary ion mass spectrometry. <i>Acta Biomaterialia</i> , 2015 , 14, 70-83	10.8	7
77	3D chemical characterization of frozen hydrated hydrogels using ToF-SIMS with argon cluster sputter depth profiling. <i>Biointerphases</i> , 2015 , 11, 02A301	1.8	9
76	Comparison of osteogenic differentiation of embryonic stem cells and primary osteoblasts revealed by responses to IL-1 β /TNF- α and IFN- γ . <i>Stem Cells and Development</i> , 2014 , 23, 605-17	4.4	35
75	Producing nanotubes of biocompatible hydroxyapatite by continuous hydrothermal synthesis. <i>CrystEngComm</i> , 2013 , 15, 3256	3.3	30
74	Electrospun PLGA fibre sheets incorporating fluorescent nanosensors: self-reporting scaffolds for application in tissue engineering. <i>Analytical Methods</i> , 2013 , 5, 68-71	3.2	4
73	Delivery of definable number of drug or growth factor loaded poly(DL-lactic acid-co-glycolic acid) microparticles within human embryonic stem cell derived aggregates. <i>Journal of Controlled Release</i> , 2013 , 168, 18-27	11.7	30
72	Engineering an in-vitro model of rodent cartilage. <i>Journal of Pharmacy and Pharmacology</i> , 2012 , 64, 821-318	3.8	18
71	Dynamics of anterior-posterior axis formation in the developing mouse embryo. <i>Nature Communications</i> , 2012 , 3, 673	17.4	62
70	Early gene regulation of osteogenesis in embryonic stem cells. <i>Integrative Biology (United Kingdom)</i> , 2012 , 4, 1470-7	3.7	2
69	Noninvasive detection and imaging of molecular markers in live cardiomyocytes derived from human embryonic stem cells. <i>Biophysical Journal</i> , 2011 , 100, 251-9	2.9	55
68	Osteogenic differentiation of embryonic stem cells in 2D and 3D culture. <i>Methods in Molecular Biology</i> , 2011 , 695, 281-308	1.4	9
67	Substrate induced differentiation of human mesenchymal stem cells on hydrogels with modified surface chemistry and controlled modulus. <i>Soft Matter</i> , 2011 , 7, 6501	3.6	67
66	Techniques for analysing pattern formation in populations of stem cells and their progeny. <i>BMC Bioinformatics</i> , 2011 , 12, 396	3.6	6

65	Patterning the mechanical properties of hydrogen silsesquioxane films using electron beam irradiation for application in mechano cell guidance. <i>Thin Solid Films</i> , 2011 , 519, 2003-2010	2.2	10
64	Engineering embryonic stem-cell aggregation allows an enhanced osteogenic differentiation in vitro. <i>Tissue Engineering - Part C: Methods</i> , 2010 , 16, 583-95	2.9	18
63	Stem cells: The therapeutic role in the treatment of diabetes mellitus. <i>Biotechnology and Genetic Engineering Reviews</i> , 2010 , 27, 285-304	4.1	
62	Maintenance of pluripotency in human embryonic stem cells cultured on a synthetic substrate in conditioned medium. <i>Biotechnology and Bioengineering</i> , 2010 , 105, 130-40	4.9	50
61	Controlled embryoid body formation via surface modification and avidin-biotin cross-linking. <i>Cytotechnology</i> , 2009 , 61, 135-44	2.2	20
60	Alginate encapsulation technology supports embryonic stem cells differentiation into insulin-producing cells. <i>Journal of Biotechnology</i> , 2009 , 144, 304-12	3.7	110
59	Mathematical modelling of tissue-engineered angiogenesis. <i>Mathematical Biosciences</i> , 2009 , 221, 101-20	3.9	28
58	Manipulation of live mouse embryonic stem cells using holographic optical tweezers. <i>Journal of Modern Optics</i> , 2009 , 56, 448-452	1.1	10
57	Tissue engineering: strategies, stem cells and scaffolds. <i>Journal of Anatomy</i> , 2008 , 213, 66-72	2.9	320
56	Clinical applications of musculoskeletal tissue engineering. <i>British Medical Bulletin</i> , 2008 , 86, 7-22	5.4	34
55	Autonomic nerve trauma at radical hysterectomy: the nerve content and subtypes within the superficial and deep uterosacral ligaments. <i>Reproductive Sciences</i> , 2008 , 15, 91-6	3	25
54	A Brief Introduction to Different Cell Types 2008 , 15-41		
53	Accelerated formation of multicellular 3-D structures by cell-to-cell cross-linking. <i>Biotechnology and Bioengineering</i> , 2007 , 97, 1617-25	4.9	33
52	Cell adhesion and mechanical properties of a flexible scaffold for cardiac tissue engineering. <i>Acta Biomaterialia</i> , 2007 , 3, 457-62	10.8	86
51	Characterization of human fetal osteoblasts by microarray analysis following stimulation with 58S bioactive gel-glass ionic dissolution products. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 77, 431-46	3.5	54
50	Novel surface entrapment process for the incorporation of bioactive molecules within preformed alginate fibers. <i>Biomacromolecules</i> , 2005 , 6, 734-40	6.9	10
49	Dose- and time-dependent effect of bioactive gel-glass ionic-dissolution products on human fetal osteoblast-specific gene expression. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005 , 74, 529-37	3.5	105
48	Surface characterization of pre-formed alginate fibres incorporated with a protein by a novel entrapment process. <i>Surface and Interface Analysis</i> , 2005 , 37, 1077-1081	1.5	2

47	Introduction to tissue engineering 2005 , 193-200		3
46	In vitro differentiation and in vivo mineralization of osteogenic cells derived from human embryonic stem cells. <i>Tissue Engineering</i> , 2004 , 10, 1518-25		223
45	Osteogenic differentiation of mouse embryonic stem cells: differential gene expression analysis by cDNA microarray and purification of osteoblasts by cadherin-11 magnetically activated cell sorting. <i>Tissue Engineering</i> , 2004 , 10, 796-806		56
44	Apoptosis--a significant cause of bone cell death in osteonecrosis of the femoral head. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2004 , 86, 1209-13		128
43	Endothelial nitric oxide synthase in the control of osteoblastic mineralizing activity and bone integrity. <i>Journal of Pathology</i> , 2004 , 202, 503-10	9.4	55
42	Differentiation of osteoblasts from murine embryonic stem cells by overexpression of the transcriptional factor osterix. <i>Tissue Engineering</i> , 2004 , 10, 1456-66		71
41	The stem cell in orthopaedic surgery. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2004 , 86, 159-64		19
40	Embryonic Stem Cells for the Engineering and Regeneration of Mineralized Tissues 2004 , 199-204		
39	In Vitro Differentiation and In Vivo Mineralization of Osteogenic Cells Derived from Human Embryonic Stem Cells. <i>Tissue Engineering</i> , 2004 , 10, 1518-1525		7
38	Cigarette smoke decreases inducible nitric oxide synthase in lung epithelial cells. <i>Experimental Lung Research</i> , 2003 , 29, 17-28	2.3	93
37	Stem cells: sources and applications. <i>Clinical Otolaryngology</i> , 2002 , 27, 227-32		62
36	Haematopoietic stem cells. <i>Journal of Pathology</i> , 2002 , 197, 430-40	9.4	86
35	Modulation of hydrogen peroxide induced injury to corneal endothelium by virus mediated catalase gene transfer. <i>British Journal of Ophthalmology</i> , 2002 , 86, 1058-62	5.5	12
34	Tissue engineering and ENT surgery. <i>Journal of Laryngology and Otology</i> , 2002 , 116, 165-9	1.8	6
33	Nitric Oxide and Other Vasoactive Agents 2002 , 995-1013		
32	Pelvic nerve plexus trauma at radical and simple hysterectomy: a quantitative study of nerve types in the uterine supporting ligaments. <i>Journal of the Society for Gynecologic Investigation</i> , 2002 , 9, 47-56		74
31	Gene-expression profiling of human osteoblasts following treatment with the ionic products of Bioglass 45S5 dissolution. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 55, 151-7		94 ^o
30	Differentiation of osteoblasts and in vitro bone formation from murine embryonic stem cells. <i>Tissue Engineering</i> , 2001 , 7, 89-99		349

29	Endothelial nitric oxide synthase gene-deficient mice demonstrate marked retardation in postnatal bone formation, reduced bone volume, and defects in osteoblast maturation and activity. <i>American Journal of Pathology</i> , 2001 , 158, 247-57	5.8	190
28	Gene-expression profiling of human osteoblasts following treatment with the ionic products of Bioglass® 45S5 dissolution 2001 , 55, 151		3
27	Gene-expression profiling of human osteoblasts following treatment with the ionic products of Bioglass® 45S5 dissolution 2001 , 55, 151		19
26	Pelvic nerve plexus trauma at radical hysterectomy and simple hysterectomy: the nerve content of the uterine supporting ligaments. <i>Cancer</i> , 2000 , 89, 834-41	6.4	129
25	Growth and adhesion of osteoblast-like cells derived from neonatal rat calvaria on calcium phosphate ceramics. <i>Journal of Bioscience and Bioengineering</i> , 2000 , 89, 18-26	3.3	34
24	Bioglass 45S5 stimulates osteoblast turnover and enhances bone formation In vitro: implications and applications for bone tissue engineering. <i>Calcified Tissue International</i> , 2000 , 67, 321-9	3.9	57 ⁸
23	Ionic products of bioactive glass dissolution increase proliferation of human osteoblasts and induce insulin-like growth factor II mRNA expression and protein synthesis. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 276, 461-5	3.4	79 ¹
22	Nitric oxide mediates 17beta-estradiol-stimulated human and rodent osteoblast proliferation and differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 277, 604-10	3.4	57
21	Cytokine-induced prostaglandin E2 synthesis and cyclooxygenase-2 activity are regulated both by a nitric oxide-dependent and -independent mechanism in rat osteoblasts in vitro. <i>Journal of Biological Chemistry</i> , 1999 , 274, 1776-82	5.4	81
20	Reciprocal changes in endothelial and inducible nitric oxide synthase expression following carotid angioplasty in the pig. <i>Atherosclerosis</i> , 1999 , 145, 17-32	3.1	21
19	Structural, biochemical and functional effects of distending pressure in the human saphenous vein: implications for bypass grafting. <i>Coronary Artery Disease</i> , 1998 , 9, 143-151	1.4	12
18	Induction of nitric oxide synthase in human vascular smooth muscle: interactions between proinflammatory cytokines. <i>Cardiovascular Research</i> , 1998 , 38, 814-21	9.9	44
17	Effect of surface instability of calcium phosphate ceramics on growth and adhesion of osteoblast-like cells derived from neonatal rat calvaria 1997 , 105-108		1
16	Streptococcal pyrogenic exotoxin A release, distribution, and role in a murine model of fasciitis and multiorgan failure due to <i>Streptococcus pyogenes</i> . <i>Journal of Infectious Diseases</i> , 1996 , 173, 1399-407	7	56
15	Inducible nitric oxide synthase is expressed acutely in the arterial media following balloon injury. <i>Journal of the American College of Cardiology</i> , 1996 , 27, 254	15.1	3
14	Cytokine-treated human neutrophils contain inducible nitric oxide synthase that produces nitration of ingested bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 9553-8	11.5	268
13	Implanted vein grafts with an intact endothelium demonstrate reduced focal expression of endothelial nitric oxide synthase specific to atherosclerotic sites. <i>Journal of Pathology</i> , 1996 , 179, 197-203	8.4	28
12	Smoking impairs the activity of endothelial nitric oxide synthase in saphenous vein. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1996 , 16, 546-52	9.4	96

11	Direct evidence that the POU family transcription factor Oct-2 represses the cellular tyrosine hydroxylase gene in neuronal cells. <i>Journal of Molecular Neuroscience</i> , 1995 , 6, 159-67	3-3	11
10	Exhaled nitric oxide is increased in asthma. <i>Chest</i> , 1995 , 107, 156S-157S	5-3	57
9	Abundance of endothelial nitric oxide synthase in newborn intrapulmonary arteries. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 1995 , 73, F17-21	4-7	39
8	Early abundance of nerves containing NO synthase in the airways of newborn pigs and subsequent decrease with age. <i>Neuroscience Letters</i> , 1995 , 201, 219-22	3-3	13
7	Localization of nitric oxide synthase: alterations in disease. <i>Current Diagnostic Pathology</i> , 1995 , 2, 111-121		3
6	Inducible nitric oxide synthase is increased in murine lung epithelial cells by cytokine stimulation. <i>Biochemical and Biophysical Research Communications</i> , 1994 , 198, 835-43	3-4	164
5	Expression of inducible nitric oxide in human lung epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 1994 , 203, 209-18	3-4	312
4	Endothelial nitric oxide synthase in the human placenta: regional distribution and proposed regulatory role at the feto-maternal interface. <i>Placenta</i> , 1994 , 15, 257-65	3-4	112
3	Placental nitric oxide synthase visualized by in vitro autoradiography and immunohistochemistry. <i>Placenta</i> , 1993 , 14, A82	3-4	2
2	Induction of nitric oxide synthase in the neo-vasculature of experimental tumours in mice. <i>Journal of Pathology</i> , 1993 , 171, 311-9	9-4	57
1	Immunological detection of nitric oxide synthase(s) in human tissues using heterologous antibodies suggesting different isoforms. <i>Histochemistry</i> , 1992 , 98, 259-66		167