Lee D Buttery

List of Publications by Year
in descending order

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85 papers	7,858 citations	81900 39 h-index	71685 76 g-index
87 all docs	87 docs citations	87 times ranked	7597 citing authors

#	Article	IF	Citations
1	Gene-expression profiling of human osteoblasts following treatment with the ionic products of Bioglassï¿½ 45S5 dissolution. Journal of Biomedical Materials Research Part B, 2001, 55, 151-157.	3.1	1,049
2	Ionic Products of Bioactive Glass Dissolution Increase Proliferation of Human Osteoblasts and Induce Insulin-like Growth Factor II mRNA Expression and Protein Synthesis. Biochemical and Biophysical Research Communications, 2000, 276, 461-465.	2.1	886
3	Bioglass Â®45S5 Stimulates Osteoblast Turnover and Enhances Bone Formation In Vitro: Implications and Applications for Bone Tissue Engineering. Calcified Tissue International, 2000, 67, 321-329.	3.1	655
4	Tissue engineering: strategies, stem cells and scaffolds. Journal of Anatomy, 2008, 213, 66-72.	1.5	417
5	Differentiation of Osteoblasts andin VitroBone Formation from Murine Embryonic Stem Cells. Tissue Engineering, 2001, 7, 89-99.	4.6	381
6	Expression of Inducible Nitric Oxide in Human Lung Epithelial Cells. Biochemical and Biophysical Research Communications, 1994, 203, 209-218.	2.1	348
7	Cytokine-treated human neutrophils contain inducible nitric oxide synthase that produces nitration of ingested bacteria.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 9553-9558.	7.1	294
8	In Vitro Differentiation and In Vivo Mineralization of Osteogenic Cells Derived from Human Embryonic Stem Cells. Tissue Engineering, 2004, 10, 1518-1525.	4.6	239
9	Endothelial Nitric Oxide Synthase Gene-Deficient Mice Demonstrate Marked Retardation in Postnatal Bone Formation, Reduced Bone Volume, and Defects in Osteoblast Maturation and Activity. American Journal of Pathology, 2001, 158, 247-257.	3.8	212
10	Inducible Nitric Oxide Synthase Is Increased in Murine Lung Epithelial Cells by Cytokine Stimulation. Biochemical and Biophysical Research Communications, 1994, 198, 835-843.	2.1	192
11	Immunological detection of nitric oxide synthase(s) in human tissues using heterologous antibodies suggesting different isoforms. Histochemistry, 1992, 98, 259-266.	1.9	183
12	Apoptosis â€“ a significant cause of bone cell death in osteonecrosis of the femoral head. Journal of Bone and Joint Surgery: British Volume, 2004, 86-B, 1209-1213.	3.4	151
13	Pelvic nerve plexus trauma at radical hysterectomy and simple hysterectomy. Cancer, 2000, 89, 834-841.	4.1	143
14	Alginate encapsulation technology supports embryonic stem cells differentiation into insulin-producing cells. Journal of Biotechnology, 2009, 144, 304-312.	3.8	125
15	Smoking Impairs the Activity of Endothelial Nitric Oxide Synthase in Saphenous Vein. Arteriosclerosis, Thrombosis, and Vascular Biology, 1996, 16, 546-552.	2.4	124
16	Endothelial nitric oxide synthase in the human placenta: Regional distribution and proposed regulatory role at the feto-maternal interfaceâ˜†. Placenta, 1994, 15, 257-265.	1.5	120
17	Dose- and time-dependent effect of bioactive gel-glass ionic-dissolution products on human fetal osteoblast-specific gene expression. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 74B, 529-537.	3.4	116
18	CIGARETTE SMOKE DECREASES INDUCIBLE NITRIC OXIDE SYNTHASE IN LUNG EPITHELIAL CELLS. Experimental Lung Research, 2003, 29, 17-28.	1.2	105

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19	Haematopoietic stem cells. Journal of Pathology, 2002, 197, 430-440.	4.5	103
20	Cell adhesion and mechanical properties of a flexible scaffold for cardiac tissue engineering. Acta Biomaterialia, 2007, 3, 457-462.	8.3	99
21	Pelvic nerve plexus trauma at radical and simple hysterectomy: a quantitative study of nerve types in the uterine supporting ligaments. Journal of the Society for Gynecologic Investigation, 2002, 9, 47-56.	1.7	91
22	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. Journal of Biological Chemistry, 1999, 274, 1776-1782.	3.4	89
23	Precision Assembly of Complex Cellular Microenvironments using Holographic Optical Tweezers. Scientific Reports, 2015, 5, 8577.	3.3	88
24	Dynamics of anteriorâ€“posterior axis formation in the developing mouse embryo. Nature Communications, 2012, 3, 673.	12.8	86
25	Differentiation of Osteoblasts from Murine Embryonic Stem Cells by Overexpression of the Transcriptional Factor Osterix. Tissue Engineering, 2004, 10, 1456-1466.	4.6	80
26	Substrate induced differentiation of human mesenchymal stem cells on hydrogels with modified surface chemistry and controlled modulus. Soft Matter, 2011, 7, 6501.	2.7	73
27	Stem cells: sources and applications. Clinical Otolaryngology, 2002, 27, 227-232.	0.0	72
28	Streptococcal Pyrogenic Exotoxin A Release, Distribution, and Role in a Murine Model of Fasciitis and Multiorgan Failure Due to Streptococcus pyogenes. Journal of Infectious Diseases, 1996, 173, 1399-1407.	4.0	66
29	Endothelial nitric oxide synthase in the control of osteoblastic mineralizing activity and bone integrity. Journal of Pathology, 2004, 202, 503-510.	4.5	63
30	Exhaled Nitric Oxide Is Increased in Asthma. Chest, 1995, 107, 156S-157S.	0.8	62
31	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. Tissue Engineering, 2004, 10, 796-806.	4.6	62
32	Induction of nitric oxide synthase in the neo-vasculature of experimental tumours in mice. Journal of Pathology, 1993, 171, 311-319.	4.5	61
33	Nitric Oxide Mediates 17Î²-Estradiol-Stimulated Human and Rodent Osteoblast Proliferation and Differentiation. Biochemical and Biophysical Research Communications, 2000, 277, 604-610.	2.1	61
34	Characterization of human fetal osteoblasts by microarray analysis following stimulation with 58S bioactive gel-glass ionic dissolution products. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 77B, 431-446.	3.4	60
35	Noninvasive Detection and Imaging of Molecular Markers in Live Cardiomyocytes Derived from Human Embryonic Stem Cells. Biophysical Journal, 2011, 100, 251-259.	0.5	60
36	Cytokine-stimulated expression of inducible nitric oxide synthase by mouse, rat, and human osteoblast-like cells and its functional role in osteoblast metabolic activity. Endocrinology, 1995, 136, 5445-5453.	2.8	55

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37	Induction of nitric oxide synthase in human vascular smooth muscle: interactions between proinflammatory cytokines. Cardiovascular Research, 1998, 38, 814-821.	3.8	53
38	Maintenance of pluripotency in human embryonic stem cells cultured on a synthetic substrate in conditioned medium. Biotechnology and Bioengineering, 2010, 105, 130-140.	3.3	53
39	Comparison of Osteogenic Differentiation of Embryonic Stem Cells and Primary Osteoblasts Revealed by Responses to IL-1Î², TNF-Î±, and IFN-Î³. Stem Cells and Development, 2014, 23, 605-617.	2.1	42
40	Abundance of endothelial nitric oxide synthase in newborn intrapulmonary arteries.. Archives of Disease in Childhood: Fetal and Neonatal Edition, 1995, 73, F17-F21.	2.8	41
41	Growth and adhesion of osteoblast-like cells derived from neonatal rat calvaria on calcium phosphate ceramics. Journal of Bioscience and Bioengineering, 2000, 89, 18-26.	2.2	39
42	Clinical applications of musculoskeletal tissue engineering. British Medical Bulletin, 2008, 86, 7-22.	6.9	39
43	Accelerated formation of multicellular 3-D structures by cell-to-cell cross-linking. Biotechnology and Bioengineering, 2007, 97, 1617-1625.	3.3	37
44	Producing nanotubes of biocompatible hydroxyapatite by continuous hydrothermal synthesis. CrystEngComm, 2013, 15, 3256.	2.6	35
45	EXPLANTED VEIN GRAFTS WITH AN INTACT ENDOTHELIUM DEMONSTRATE REDUCED FOCAL EXPRESSION OF ENDOTHELIAL NITRIC OXIDE SYNTHASE SPECIFIC TO ATHEROSCLEROTIC SITES. , 1996, 179, 197-203.		33
46	Mathematical modelling of tissue-engineered angiogenesis. Mathematical Biosciences, 2009, 221, 101-120.	1.9	31
47	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. Journal of Controlled Release, 2013, 168, 18-27.	9.9	31
48	Autonomic Nerve Trauma at Radical Hysterectomy: The Nerve Content and Subtypes Within the Superficial and Deep Uterosacral Ligaments. Reproductive Sciences, 2008, 15, 91-96.	2.5	29
49	Investigation of Localized Delivery of Diclofenac Sodium from Poly(D,L-Lactic Acid-co-Glycolic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Engineering - Part A, 2015, 21, 362-373.	3.1	28
50	Reciprocal changes in endothelial and inducible nitric oxide synthase expression following carotid angioplasty in the pig. Atherosclerosis, 1999, 145, 17-32.	0.8	23
51	The stem cell in orthopaedic surgery. Journal of Bone and Joint Surgery: British Volume, 2004, 86-B, 159-164.	3.4	22
52	Controlled embryoid body formation via surface modification and avidinâ€“biotin cross-linking. Cytotechnology, 2009, 61, 135-144.	1.6	22
53	Engineering Embryonic Stem-Cell Aggregation Allows an Enhanced Osteogenic Differentiation In Vitro. Tissue Engineering - Part C: Methods, 2010, 16, 583-595.	2.1	19
54	Geneâ€expression profiling of human osteoblasts following treatment with the ionic products of BioglassÂ® 45S5 dissolution. Journal of Biomedical Materials Research Part B, 2001, 55, 151-157.	3.1	19

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55	Manipulation of live mouse embryonic stem cells using holographic optical tweezers. Journal of Modern Optics, 2009, 56, 448-452.	1.3	18
56	Early abundance of nerves containing NO synthase in the airways of newborn pigs and subsequent decrease with age. Neuroscience Letters, 1995, 201, 219-222.	2.1	14
57	Structural, biochemical and functional effects of distending pressure in the human saphenous vein: implications for bypass grafting. Coronary Artery Disease, 1998, 9, 143-151.	0.7	14
58	Modulation of hydrogen peroxide induced injury to corneal endothelium by virus mediated catalase gene transfer. British Journal of Ophthalmology, 2002, 86, 1058-1062.	3.9	14
59	Novel Surface Entrapment Process for the Incorporation of Bioactive Molecules within Preformed Alginate Fibers. Biomacromolecules, 2005, 6, 734-740.	5.4	13
60	Patterning the mechanical properties of hydrogen silsesquioxane films using electron beam irradiation for application in mechano cell guidance. Thin Solid Films, 2011, 519, 2003-2010.	1.8	13
61	Direct evidence that the POU family transcription factor Oct-2 represses the cellular tyrosine hydroxylase gene in neuronal cells. Journal of Molecular Neuroscience, 1995, 6, 159-167.	2.3	12
62	Revealing cytokine-induced changes in the extracellular matrix with secondary ion mass spectrometry. Acta Biomaterialia, 2015, 14, 70-83.	8.3	11
63	3D chemical characterization of frozen hydrated hydrogels using ToF-SIMS with argon cluster sputter depth profiling. Biointerphases, 2016, 11, 02A301.	1.6	11
64	Osteogenic Differentiation of Embryonic Stem Cells in 2D and 3D Culture. Methods in Molecular Biology, 2011, 695, 281-308.	0.9	10
65	Techniques for analysing pattern formation in populations of stem cells and their progeny. BMC Bioinformatics, 2011, 12, 396.	2.6	8
66	<I>In Vitro</I> Differentiation and <I>In Vivo</I> Mineralization of Osteogenic Cells Derived from Human Embryonic Stem Cells. Tissue Engineering, 2004, 10, 1518-1525.	4.6	7
67	Tissue engineering and ENT surgery. Journal of Laryngology and Otology, 2002, 116, 165-169.	0.8	6
68	Introduction to tissue engineering. , 2005, , 193-200.		6
69	Electrospun PLGA fibre sheets incorporating fluorescent nanosensors: self-reporting scaffolds for application in tissue engineering. Analytical Methods, 2013, 5, 68-71.	2.7	5
70	Inducible nitric oxide synthase is expressed acutely in the arterial media following balloon injury. Journal of the American College of Cardiology, 1996, 27, 254.	2.8	4
71	Early gene regulation of osteogenesis in embryonic stem cells. Integrative Biology (United Kingdom), 2012, 4, 1470.	1.3	4
72	Tuning the conformation of synthetic co-polypeptides of serine and glutamic acid through control over polymer composition. Journal of Polymer Science Part A, 2016, 54, 2331-2336.	2.3	4

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73	Localization of nitric oxide synthase: alterations in disease. Current Diagnostic Pathology, 1995, 2, 111-121.	0.4	3
74	Surface characterization of pre-formed alginate fibres incorporated with a protein by a novel entrapment process. Surface and Interface Analysis, 2005, 37, 1077-1081.	1.8	3
75	Gene-expression profiling of human osteoblasts following treatment with the ionic products of BioglassÂ® 45S5 dissolution. , 2001, 55, 151.		3
76	Placental nitric oxide synthase visualized by in vitro autoradiography and immunohistochemistry. Placenta, 1993, 14, A82.	1.5	2
77	Localized Induction of Gene Expression in Embryonic Stem Cell Aggregates Using Holographic Optical Tweezers to Create Biochemical Gradients. Regenerative Engineering and Translational Medicine, 2020, 6, 251-261.	2.9	1
78	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
79	Cytokine-induced apoptosis in osteoblast cultures mediated by nitric oxide. Bone, 1995, 17, 565.	2.9	0
80	A Brief Introduction to Different Cell Types. , 2008, , 15-41.		0
81	Stem cells: The therapeutic role in the treatment of diabetes mellitus. Biotechnology and Genetic Engineering Reviews, 2010, 27, 285-304.	6.2	0
82	Engineering an in-vitro model of rodent cartilage. Journal of Pharmacy and Pharmacology, 2012, 64, 821-831.	2.4	0
83	Nitric Oxide and Other Vasoactive Agents. , 2002, , 995-1013.		0
84	Embryonic Stem Cells for the Engineering and Regeneration of Mineralized Tissues. , 2004, , 199-204.		0
85	Assessing the immunosuppressive activity of alginate-encapsulated mesenchymal stromal cells on splenocytes. Artificial Cells, Nanomedicine and Biotechnology, 2022, 50, 168-176.	2.8	0