

# Lee D Buttery

## List of Publications by Year in descending order

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85  
papers

7,858  
citations

81839

39  
h-index

71651

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 Bioglass® 45S5 dissolution. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 55, 151-157.	3.0	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. <i>Biochemical and Biophysical Research Communications</i> , 2000, 276, 461-465.	1.0	886
3	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, 321-329.	1.5	655
4	Tissue engineering: strategies, stem cells and scaffolds. <i>Journal of Anatomy</i> , 2008, 213, 66-72.	0.9	417
5	Differentiation of Osteoblasts and in Vitro Bone Formation from Murine Embryonic Stem Cells. <i>Tissue Engineering</i> , 2001, 7, 89-99.	4.9	381
6	Expression of Inducible Nitric Oxide in Human Lung Epithelial Cells. <i>Biochemical and Biophysical Research Communications</i> , 1994, 203, 209-218.	1.0	348
7	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, 9553-9558.	3.3	294
8	In Vitro Differentiation and In Vivo Mineralization of Osteogenic Cells Derived from Human Embryonic Stem Cells. <i>Tissue Engineering</i> , 2004, 10, 1518-1525.	4.9	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. <i>American Journal of Pathology</i> , 2001, 158, 247-257.	1.9	212
10	Inducible Nitric Oxide Synthase Is Increased in Murine Lung Epithelial Cells by Cytokine Stimulation. <i>Biochemical and Biophysical Research Communications</i> , 1994, 198, 835-843.	1.0	192
11	Immunological detection of nitric oxide synthase(s) in human tissues using heterologous antibodies suggesting different isoforms. <i>Histochemistry</i> , 1992, 98, 259-266.	1.9	183
12	Apoptosis is 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-B, 1209-1213.	3.4	151
13	Pelvic nerve plexus trauma at radical hysterectomy and simple hysterectomy. <i>Cancer</i> , 2000, 89, 834-841.	2.0	143
14	Alginate encapsulation technology supports embryonic stem cells differentiation into insulin-producing cells. <i>Journal of Biotechnology</i> , 2009, 144, 304-312.	1.9	125
15	Smoking Impairs the Activity of Endothelial Nitric Oxide Synthase in Saphenous Vein. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1996, 16, 546-552.	1.1	124
16	Endothelial nitric oxide synthase in the human placenta: Regional distribution and proposed regulatory role at the feto-maternal interface. <i>Placenta</i> , 1994, 15, 257-265.	0.7	120
17	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, 74B, 529-537.	1.6	116
18	CIGARETTE SMOKE DECREASES INDUCIBLE NITRIC OXIDE SYNTHASE IN LUNG EPITHELIAL CELLS. <i>Experimental Lung Research</i> , 2003, 29, 17-28.	0.5	105

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19	Haematopoietic stem cells. <i>Journal of Pathology</i> , 2002, 197, 430-440.	2.1	103
20	Cell adhesion and mechanical properties of a flexible scaffold for cardiac tissue engineering. <i>Acta Biomaterialia</i> , 2007, 3, 457-462.	4.1	99
21	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.	1.9	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. <i>Journal of Biological Chemistry</i> , 1999, 274, 1776-1782.	1.6	89
23	Precision Assembly of Complex Cellular Microenvironments using Holographic Optical Tweezers. <i>Scientific Reports</i> , 2015, 5, 8577.	1.6	88
24	Dynamics of anterior-posterior axis formation in the developing mouse embryo. <i>Nature Communications</i> , 2012, 3, 673.	5.8	86
25	Differentiation of Osteoblasts from Murine Embryonic Stem Cells by Overexpression of the Transcriptional Factor Osterix. <i>Tissue Engineering</i> , 2004, 10, 1456-1466.	4.9	80
26	Substrate induced differentiation of human mesenchymal stem cells on hydrogels with modified surface chemistry and controlled modulus. <i>Soft Matter</i> , 2011, 7, 6501.	1.2	73
27	Stem cells: sources and applications. <i>Clinical Otolaryngology</i> , 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 <i>Streptococcus pyogenes</i> . <i>Journal of Infectious Diseases</i> , 1996, 173, 1399-1407.	1.9	66
29	Endothelial nitric oxide synthase in the control of osteoblastic mineralizing activity and bone integrity. <i>Journal of Pathology</i> , 2004, 202, 503-510.	2.1	63
30	Exhaled Nitric Oxide Is Increased in Asthma. <i>Chest</i> , 1995, 107, 156S-157S.	0.4	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. <i>Tissue Engineering</i> , 2004, 10, 796-806.	4.9	62
32	Induction of nitric oxide synthase in the neo-vasculature of experimental tumours in mice. <i>Journal of Pathology</i> , 1993, 171, 311-319.	2.1	61
33	Nitric Oxide Mediates 17 $\beta$ -Estradiol-Stimulated Human and Rodent Osteoblast Proliferation and Differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2000, 277, 604-610.	1.0	61
34	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, 77B, 431-446.	1.6	60
35	Noninvasive Detection and Imaging of Molecular Markers in Live Cardiomyocytes Derived from Human Embryonic Stem Cells. <i>Biophysical Journal</i> , 2011, 100, 251-259.	0.2	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. <i>Endocrinology</i> , 1995, 136, 5445-5453.	1.4	55

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37	Induction of nitric oxide synthase in human vascular smooth muscle: interactions between proinflammatory cytokines. <i>Cardiovascular Research</i> , 1998, 38, 814-821.	1.8	53
38	Maintenance of pluripotency in human embryonic stem cells cultured on a synthetic substrate in conditioned medium. <i>Biotechnology and Bioengineering</i> , 2010, 105, 130-140.	1.7	53
39	Comparison of Osteogenic Differentiation of Embryonic Stem Cells and Primary Osteoblasts Revealed by Responses to IL-1 $\beta$ , TNF- $\alpha$ , and IFN- $\gamma$ . <i>Stem Cells and Development</i> , 2014, 23, 605-617.	1.1	42
40	Abundance of endothelial nitric oxide synthase in newborn intrapulmonary arteries.. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 1995, 73, F17-F21.	1.4	41
41	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.	1.1	39
42	Clinical applications of musculoskeletal tissue engineering. <i>British Medical Bulletin</i> , 2008, 86, 7-22.	2.7	39
43	Accelerated formation of multicellular 3-D structures by cell-to-cell cross-linking. <i>Biotechnology and Bioengineering</i> , 2007, 97, 1617-1625.	1.7	37
44	Producing nanotubes of biocompatible hydroxyapatite by continuous hydrothermal synthesis. <i>CrystEngComm</i> , 2013, 15, 3256.	1.3	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. <i>Mathematical Biosciences</i> , 2009, 221, 101-120.	0.9	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. <i>Journal of Controlled Release</i> , 2013, 168, 18-27.	4.8	31
48	Autonomic Nerve Trauma at Radical Hysterectomy: The Nerve Content and Subtypes Within the Superficial and Deep Uterosacral Ligaments. <i>Reproductive Sciences</i> , 2008, 15, 91-96.	1.1	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 Engineering - Part A, 2015, 21, 362-373.	1.6	28
50	Reciprocal changes in endothelial and inducible nitric oxide synthase expression following carotid angioplasty in the pig. <i>Atherosclerosis</i> , 1999, 145, 17-32.	0.4	23
51	The stem cell in orthopaedic surgery. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2004, 86-B, 159-164.	3.4	22
52	Controlled embryoid body formation via surface modification and avidin-biotin cross-linking. <i>Cytotechnology</i> , 2009, 61, 135-144.	0.7	22
53	Engineering Embryonic Stem-Cell Aggregation Allows an Enhanced Osteogenic Differentiation In Vitro. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 583-595.	1.1	19
54	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, 151-157.	3.0	19

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55	Manipulation of live mouse embryonic stem cells using holographic optical tweezers. <i>Journal of Modern Optics</i> , 2009, 56, 448-452.	0.6	18
56	Early abundance of nerves containing NO synthase in the airways of newborn pigs and subsequent decrease with age. <i>Neuroscience Letters</i> , 1995, 201, 219-222.	1.0	14
57	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.	0.3	14
58	Modulation of hydrogen peroxide induced injury to corneal endothelium by virus mediated catalase gene transfer. <i>British Journal of Ophthalmology</i> , 2002, 86, 1058-1062.	2.1	14
59	Novel Surface Entrapment Process for the Incorporation of Bioactive Molecules within Preformed Alginate Fibers. <i>Biomacromolecules</i> , 2005, 6, 734-740.	2.6	13
60	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.	0.8	13
61	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, 159-167.	1.1	12
62	Revealing cytokine-induced changes in the extracellular matrix with secondary ion mass spectrometry. <i>Acta Biomaterialia</i> , 2015, 14, 70-83.	4.1	11
63	3D chemical characterization of frozen hydrated hydrogels using ToF-SIMS with argon cluster sputter depth profiling. <i>Biointerphases</i> , 2016, 11, 02A301.	0.6	11
64	Osteogenic Differentiation of Embryonic Stem Cells in 2D and 3D Culture. <i>Methods in Molecular Biology</i> , 2011, 695, 281-308.	0.4	10
65	Techniques for analysing pattern formation in populations of stem cells and their progeny. <i>BMC Bioinformatics</i> , 2011, 12, 396.	1.2	8
66	In Vitro Differentiation and In Vivo Mineralization of Osteogenic Cells Derived from Human Embryonic Stem Cells. <i>Tissue Engineering</i> , 2004, 10, 1518-1525.	4.9	7
67	Tissue engineering and ENT surgery. <i>Journal of Laryngology and Otology</i> , 2002, 116, 165-169.	0.4	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. <i>Analytical Methods</i> , 2013, 5, 68-71.	1.3	5
70	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.	1.2	4
71	Early gene regulation of osteogenesis in embryonic stem cells. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 1470.	0.6	4
72	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	4

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73	Localization of nitric oxide synthase: alterations in disease. <i>Current Diagnostic Pathology</i> , 1995, 2, 111-121.	0.4	3
74	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.	0.8	3
75	Gene-expression profiling of human osteoblasts following treatment with the ionic products of Bioglass® 45S5 dissolution. , 2001, 55, 151.		3
76	Placental nitric oxide synthase visualized by in vitro autoradiography and immunohistochemistry. <i>Placenta</i> , 1993, 14, A82.	0.7	2
77	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.	1.6	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. <i>Bone</i> , 1995, 17, 565.	1.4	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. <i>Biotechnology and Genetic Engineering Reviews</i> , 2010, 27, 285-304.	2.4	0
82	Engineering an in-vitro model of rodent cartilage. <i>Journal of Pharmacy and Pharmacology</i> , 2012, 64, 821-831.	1.2	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. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2022, 50, 168-176.	1.9	0