David I Leavesley

List of Publications by Year
in descending order

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80 papers	5,089 citations	136950 32 h-index	91884 69 g-index
84 all docs	84 docs citations	84 times ranked	6258 citing authors

#	Article	IF	Citations
1	Mediation of Biomaterialâ€“Cell Interactions by Adsorbed Proteins: A Review. Tissue Engineering, 2005, 11, 1-18.	4.6	1,464
2	Integrin beta 1- and beta 3-mediated endothelial cell migration is triggered through distinct signaling mechanisms.. Journal of Cell Biology, 1993, 121, 163-170.	5.2	373
3	Cytokines increase human hemopoietic cell adhesiveness by activation of very late antigen (VLA)-4 and VLA-5 integrins.. Journal of Experimental Medicine, 1995, 181, 1805-1815.	8.5	296
4	Requirement of the integrin beta 3 subunit for carcinoma cell spreading or migration on vitronectin and fibrinogen. Journal of Cell Biology, 1992, 117, 1101-1107.	5.2	231
5	Traveling Wave Model to Interpret a Wound-Healing Cell Migration Assay for Human Peritoneal Mesothelial Cells. Tissue Engineering, 2004, 10, 475-482.	4.6	221
6	Wound Healing and the Use of Medicinal Plants. Evidence-based Complementary and Alternative Medicine, 2019, 2019, 1-30.	1.2	188
7	Travelling waves in a wound healing assay. Applied Mathematics Letters, 2004, 17, 575-580.	2.7	175
8	Molecular cloning and expression in Escherichia coli K-12 of the O antigens of the Inaba and Ogawa serotypes of the Vibrio cholerae O1 lipopolysaccharides and their potential for vaccine development. Infection and Immunity, 1986, 53, 272-277.	2.2	155
9	A flexible multiplexed immunosensor for point-of-care in situ wound monitoring. Science Advances, 2021, 7, .	10.3	106
10	Quantifying the roles of cell motility and cell proliferation in a circular barrier assay. Journal of the Royal Society Interface, 2013, 10, 20130007.	3.4	102
11	Potential Adhesion Mechanisms for Localisation of Haemopoietic Progenitors to Bone Marrow Stroma. Leukemia and Lymphoma, 1994, 12, 353-363.	1.3	92
12	Development of a Three-Dimensional Human Skin Equivalent Wound Model for Investigating Novel Wound Healing Therapies. Tissue Engineering - Part C: Methods, 2010, 16, 1111-1123.	2.1	89
13	Vitronectin: Growth Factor Complexes Hold Potential as a Wound Therapy Approach. Journal of Investigative Dermatology, 2008, 128, 1535-1544.	0.7	80
14	Spatial analysis of biomineralization associated gene expression from the mantle organ of the pearl oyster Pinctada maxima. BMC Genomics, 2011, 12, 455.	2.8	76
15	Vitronectinâ€”Master controller or micromanager?. IUBMB Life, 2013, 65, 807-818.	3.4	76
16	Effects of oxygen and culture system on in vitro propagation and redifferentiation of osteoarthritic human articular chondrocytes. Cell and Tissue Research, 2012, 347, 649-663.	2.9	74
17	Association of Extracellular Membrane Vesicles with Cutaneous Wound Healing. International Journal of Molecular Sciences, 2017, 18, 956.	4.1	73
18	Microfibril-associated Glycoprotein-2 Specifically Interacts with a Range of Bovine and Human Cell Types via Î±VÎ²3 Integrin. Journal of Biological Chemistry, 1999, 274, 13060-13065.	3.4	67

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19	Hyaluronic acid: Evaluation as a potential delivery vehicle for vitronectin:growth factor complexes in wound healing applications. Journal of Controlled Release, 2011, 153, 225-232.	9.9	60
20	In vitro bioactivity of MOEP grafted ePTFE membranes for craniofacial applications. Biomaterials, 2005, 26, 5303-5312.	11.4	56
21	Multiple types of data are required to identify the mechanisms influencing the spatial expansion of melanoma cell colonies. BMC Systems Biology, 2013, 7, 137.	3.0	53
22	Epidermal growth factor modifies the expression and function of extracellular matrix adhesion receptors expressed by peritoneal mesothelial cells from patients on CAPD. Nephrology Dialysis Transplantation, 1999, 14, 1208-1216.	0.7	47
23	Shikonin reduces TGF-Î²1-induced collagen production and contraction in hypertrophic scar-derived human skin fibroblasts. International Journal of Molecular Medicine, 2015, 36, 985-991.	4.0	46
24	Adult human articular chondrocytes in a microcarrierâ€based culture system: expansion and redifferentiation. Journal of Orthopaedic Research, 2011, 29, 539-546.	2.3	41
25	Effects of Oxygen on Zonal Marker Expression in Human Articular Chondrocytes. Tissue Engineering - Part A, 2012, 18, 920-933.	3.1	41
26	Molecular cloning using immune sera of a 22-kDal minor outer membrane protein of Vibrio cholerae. Gene, 1985, 34, 95-103.	2.2	40
27	Purification of the 25-kDa Vibrio cholerae major outer-membrane protein and the molecular cloning of its gene: ompV. FEBS Journal, 1985, 148, 385-390.	0.2	39
28	HB-EGF is produced in the peritoneal cavity and enhances mesothelial cell adhesion and migration. Kidney International, 2001, 59, 614-624.	5.2	39
29	A Novel Activating Anti-Î²1 Integrin Monoclonal Antibody Binds to the Cysteine-rich Repeats in the Î²1 Chain. Journal of Biological Chemistry, 1996, 271, 25099-25106.	3.4	38
30	Substrate-Bound Insulin-Like Growth Factor (IGF)-I-IGF Binding Protein-Vitronectin-Stimulated Breast Cell Migration Is Enhanced by Coactivation of the Phosphatidylinositide 3-Kinase/AKT Pathway by Î±v-Integrins and the IGF-I Receptor. Endocrinology, 2008, 149, 1075-1090.	2.8	38
31	Responses of keratinocytes to substrate-bound vitronectin:growth factor complexes. Experimental Cell Research, 2005, 305, 221-232.	2.6	37
32	Differential Expression of Keratinocyte-Derived Extracellular Vesicle Mirnas Discriminate Exosomes From Apoptotic Bodies and Microvesicles. Frontiers in Endocrinology, 2018, 9, 535.	3.5	34
33	Surface Modification by Complexes of Vitronectin and Growth Factors for Serum-Free Culture of Human Osteoblasts. Tissue Engineering, 2005, 11, 1688-1698.	4.6	32
34	Insulin-Like Growth Factor-I:Vitronectin Complex-Induced Changes in Gene Expression Effect Breast Cell Survival and Migration. Endocrinology, 2011, 152, 1388-1401.	2.8	32
35	Insulin-Like Growth Factor-II Bound to Vitronectin Enhances MCF-7 Breast Cancer Cell Migration. Endocrinology, 2003, 144, 2417-2424.	2.8	31
36	Human pilot studies reveal the potential of a vitronectin: growth factor complex as a treatment for chronic wounds. International Wound Journal, 2011, 8, 522-532.	2.9	31

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37	Chimeric vitronectin:insulin-like growth factor proteins enhance cell growth and migration through co-activation of receptors. Growth Factors, 2007, 25, 295-308.	1.7	30
38	Timing of pulsed electromagnetic field stimulation does not affect the promotion of bone cell development. Bioelectromagnetics, 2005, 26, 670-676.	1.6	28
39	Characteristics and roles of extracellular vesicles released by epidermal keratinocytes. Journal of the European Academy of Dermatology and Venereology, 2019, 33, 2264-2272.	2.4	25
40	Identification of Malassezia furfur Secreted Aspartyl Protease 1 (MfSAP1) and Its Role in Extracellular Matrix Degradation. Frontiers in Cellular and Infection Microbiology, 2020, 10, 148.	3.9	23
41	Menstrual fluid factors facilitate tissue repair: identification and functional action in endometrial and skin repair. FASEB Journal, 2019, 33, 584-605.	0.5	22
42	Functional and phenotypic characterization of human keratinocytes expanded in microcarrier culture. Journal of Biomedical Materials Research - Part A, 2009, 88A, 184-194.	4.0	21
43	Xanthine Oxidoreductase: A Novel Therapeutic Target for the Treatment of Chronic Wounds?. Advances in Wound Care, 2018, 7, 95-104.	5.1	19
44	Recent Advances in the Design of Three-Dimensional and Bioprinted Scaffolds for Full-Thickness Wound Healing. Tissue Engineering - Part B: Reviews, 2022, 28, 160-181.	4.8	19
45	Application of â€œmacromolecular crowdingâ€•in vitro to investigate the naphthoquinones shikonin, naphthazarin and related analogues for the treatment of dermal scars. Chemico-Biological Interactions, 2019, 310, 108747.	4.0	18
46	A Chimeric Vitronectin: IGF-I Protein Supports Feeder-Cell-Free and Serum-Free Culture of Human Embryonic Stem Cells. Stem Cells and Development, 2010, 19, 1297-1305.	2.1	18
47	A Fragment of the LG3 Peptide of Endorepellin Is Present in the Urine of Physically Active Mining Workers: A Potential Marker of Physical Activity. PLoS ONE, 2012, 7, e33714.	2.5	17
48	Development of Defined Media for the Serum-Free Expansion of Primary Keratinocytes and Human Embryonic Stem Cells. Tissue Engineering - Part C: Methods, 2008, 14, 221-232.	2.1	16
49	Functional and mechanistic investigation of Shikonin in scarring. Chemico-Biological Interactions, 2015, 228, 18-27.	4.0	16
50	Investigating the potential of Oxymatrine as a psoriasis therapy. Chemico-Biological Interactions, 2017, 271, 59-66.	4.0	16
51	Mechanistic investigations into interactions between IGF-I and IGFBPs and their impact on facilitating cell migration on vitronectin. Growth Factors, 2010, 28, 359-369.	1.7	15
52	Vascular and Collagen Target: A Rational Approach to Hypertrophic Scar Management. Advances in Wound Care, 2023, 12, 38-55.	5.1	14
53	Expression of Defensin Antimicrobial Peptides in the Peritoneal Cavity of Patients on Peritoneal Dialysis. Peritoneal Dialysis International, 2001, 21, 501-508.	2.3	13
54	Novel Cellulose Fibre-Based Flexible Plasmonic Membrane for Point-of-Care SERS Biomarker Detection in Chronic Wound Healing. International Journal of Nanomedicine, 2021, Volume 16, 5869-5878.	6.7	12

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55	Keratin-Alginate Sponges Support Healing of Partial-Thickness Burns. International Journal of Molecular Sciences, 2021, 22, 8594.	4.1	10
56	Differential subcellular and extracellular localisations of proteins required for insulin-like growth factor- and extracellular matrix-induced signalling events in breast cancer progression. BMC Cancer, 2014, 14, 627.	2.6	7
57	Vitronectin Modulates Human Mesenchymal Stem Cell Response to Insulin-like Growth Factor-I and Transforming Growth Factor Beta 1 in a Serum-free Environment. Tissue Engineering - Part A, 2009, 15, 1415-1426.	3.1	6
58	The effect of amphiphilic siloxane oligomers on fibroblast and keratinocyte proliferation and apoptosis. Journal of Biomedical Materials Research - Part A, 2010, 95A, 620-631.	4.0	6
59	Deep Sequencing MicroRNAs from Extracellular Membrane Vesicles Revealed the Association of the Vesicle Cargo with Cellular Origin. International Journal of Molecular Sciences, 2020, 21, 1141.	4.1	6
60	Specificity and Functional Effects of Antibodies to Human Stem Cell Factor. Growth Factors, 1997, 14, 67-79.	1.7	5
61	Antagonists of IGF:Vitronectin Interactions Inhibit IGF-Iâ€“Induced Breast Cancer Cell Functions. Molecular Cancer Therapeutics, 2016, 15, 1602-1613.	4.1	5
62	Multilineage Differentiation Potential of Bone and Cartilage Cells Derived from Explant Culture. Open Stem Cell Journal, 2009, 1, 10-19.	2.0	5
63	In Vitro Model of Human Cutaneous Hypertrophic Scarring using Macromolecular Crowding. Journal of Visualized Experiments, 2020, , .	0.3	5
64	Cell Attachment and Proliferation on Hydroxyapatite and Ion Substituted Hydroxyapatites. Key Engineering Materials, 2003, 240-242, 671-674.	0.4	4
65	Arrays of Biocompatible and Mechanically Robust Microchambers Made of Proteinâ€“Polyphenolâ€“Clay Multilayer Films. ACS Biomaterials Science and Engineering, 2020, 6, 5653-5661.	5.2	4
66	6.20 Skin Tissue Engineering â˜†. , 2017, , 334-382.		3
67	Development of reconstructed intestinal micronucleus cytome (RICyt) assay in 3D human gut model for genotoxicity assessmentÂof orally ingested substances. Archives of Toxicology, 2022, 96, 1455-1471.	4.2	3
68	A fence barrier method of leading edge cell capture for explorative biochemical research. Cell Adhesion and Migration, 2017, 11, 496-503.	2.7	2
69	Down-Regulation of PER2 Increases Apoptosis of Gliomas after X-Ray Irradiation. Chemotherapy, 2017, 06, .	0.0	1
70	Investigating the Effects of Shikonin, Deoxyshikonin, and (Î²,Î²-Dimethylacryl)Shikonin on Melanoma Cell Lines. Natural Product Communications, 2020, 15, 1934578X2092232.	0.5	1
71	Temporal Tracking of Mineralization and Transcriptional Events Associated with Shell Formation During the Early Life History of Pearl Oyster Pinctada maxima. Current Biotechnology, 2015, 4, 261-274.	0.4	1
72	Potential pitfalls of radiolabel adsorption to ceramic biomaterials. Journal of Biomedical Materials Research - Part A, 2005, 72A, 363-372.	4.0	0

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73	QUT Eyes Scarless Healing. Asia Pacific Biotech News, 2005, 09, 635-640.	0.0	0
74	P-21 IGF-I:IGFBP:VN COMPLEX ENHANCED CELL MIGRATION INVOLVES BOTH VN-BINDING INTEGRINS AND THE IGF-1R THROUGH ACTIVATION OF THE AKT/PI3-K SIGNALLING PATHWAY. Growth Hormone and IGF Research, 2006, 16, S30.	1.1	0
75	P203 Phenotypic characterization and redifferentiation of human articular chondrocytes expanded on microcarriers. Osteoarthritis and Cartilage, 2007, 15, B139.	1.3	0
76	OR8,47 IGF-I:Vitronectin interactions modulate breast cancer cell survival, migration and epithelial to mesenchymal transition. Growth Hormone and IGF Research, 2010, 20, S21.	1.1	0
77	P01-14 IGF-I: Vitronectin interactions modulate changes in expression of genes which induce breast cancer cell survival and migration. Growth Hormone and IGF Research, 2012, 22, S36-S37.	1.1	0
78	RE: A Chimeric Vitronectin: IGF-1 Protein Supports Feeder-Cell-Free and Serum-Free Culture of Human Embryonic Stem Cells, by Manton KJ, S Richards, D Van Lonkhuyzen, L Cormack, D Leavesley, and Z Upton. Stem Cells Dev 19:1298â€“1305. Stem Cells and Development, 2013, 22, 687-687.	2.1	0
79	Novel flexible membrane based SERS for biomarker detection in chronic wound healing. , 2021, , .		0
80	Partial Epithelialâ€Mesenchymal Transition: Reduced miRâ€4792 and miRâ€146bâ€5p Inversely Correlated with SIAH2 in Migrating Keratinocytes in Vitro. Experimental Dermatology, 2021, 30, 1838-1839.	2.9	0