Zee Upton

List of Publications by Year
in descending order

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Version: 2024-02-01

89 papers	4,394 citations	117453 34 h-index	114278 63 g-index
91 all docs	91 docs citations	91 times ranked	6081 citing authors

#	Article	IF	Citations
1	The humanistic and economic burden of chronic wounds: A systematic review. Wound Repair and Regeneration, 2019, 27, 114-125.	1.5	409
2	Sensors and imaging for wound healing: A review. Biosensors and Bioelectronics, 2013, 41, 30-42.	5.3	352
3	Prevalence of chronic wounds in the general population: systematic review and meta-analysis of observational studies. Annals of Epidemiology, 2019, 29, 8-15.	0.9	328
4	The effect of matrix characteristics on fibroblast proliferation in 3D gels. Biomaterials, 2010, 31, 8454-8464.	5.7	271
5	The Roles of Hypoxia in the In Vitro Engineering of Tissues. Tissue Engineering, 2007, 13, 2153-2162.	4.9	242
6	Wound Healing and the Use of Medicinal Plants. Evidence-based Complementary and Alternative Medicine, 2019, 2019, 1-30.	0.5	188
7	Dermal fibroblast infiltration of poly(Îµ-caprolactone) scaffolds fabricated by melt electrospinning in a direct writing mode. Biofabrication, 2013, 5, 025001.	3.7	172
8	IGFs stimulate zebrafish cell proliferation by activating MAP kinase and PI3-kinase-signaling pathways. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 280, R1230-R1239.	0.9	106
9	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.	1.1	89
10	Elevated uric acid correlates with wound severity. International Wound Journal, 2012, 9, 139-149.	1.3	83
11	Structural and Functional Evidence for the Interaction of Insulin-Like Growth Factors (IGFs) and IGF Binding Proteins with Vitronectin. Endocrinology, 2003, 144, 2807-2815.	1.4	80
12	Vitronectin: Growth Factor Complexes Hold Potential as a Wound Therapy Approach. Journal of Investigative Dermatology, 2008, 128, 1535-1544.	0.3	80
13	Vitronectinâ€"Master controller or micromanager?. IUBMB Life, 2013, 65, 807-818.	1.5	76
14	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.	1.5	74
15	Recent advances in dermal wound healing: biomedical device approaches. Expert Review of Medical Devices, 2010, 7, 143-154.	1.4	70
16	3D mesenchymal stem/stromal cell osteogenesis and autocrine signalling. Biochemical and Biophysical Research Communications, 2012, 419, 142-147.	1.0	66
17	Characteristics of microbial drug resistance and its correlates in chronic diabetic foot ulcer infections. Journal of Medical Microbiology, 2014, 63, 1377-1385.	0.7	62
18	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.	4.8	60

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19	Insulin-like Growth Factors (IGF) and IGF-Binding Proteins Bound to Vitronectin Enhance Keratinocyte Protein Synthesis and Migration. Journal of Investigative Dermatology, 2004, 122, 1198-1206.	0.3	59
20	Clinical and economic burden of wound care in the tropics: a 5â€year institutional population health review. International Wound Journal, 2020, 17, 790-803.	1.3	56
21	Migration of breast cancer cells: Understanding the roles of volume exclusion and cell-to-cell adhesion. Physical Review E, 2010, 82, 041901.	0.8	51
22	Development and validation of a radioimmunoassay for fish insulin-like growth factor I (IGF-I) and the effect of aquaculture related stressors on circulating IGF-I levels. General and Comparative Endocrinology, 2004, 135, 268-275.	0.8	48
23	Characterization of a Human Skin Equivalent Model to Study the Effects of Ultraviolet B Radiation on Keratinocytes. Tissue Engineering - Part C: Methods, 2014, 20, 588-598.	1.1	47
24	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.	1.8	46
25	Attenuation of protease activity in chronic wound fluid with bisphosphonate-functionalised hydrogels. Biomaterials, 2008, 29, 1785-1795.	5.7	45
26	Adult human articular chondrocytes in a microcarrierâ€based culture system: expansion and redifferentiation. Journal of Orthopaedic Research, 2011, 29, 539-546.	1.2	41
27	Effects of Oxygen on Zonal Marker Expression in Human Articular Chondrocytes. Tissue Engineering - Part A, 2012, 18, 920-933.	1.6	41
28	Identification of Vitronectin as a Novel Insulin-Like Growth Factor-II Binding Protein. Endocrinology, 1999, 140, 2928-2931.	1.4	40
29	Hyperbaric oxygen stimulates epidermal reconstruction in human skin equivalents. Wound Repair and Regeneration, 2007, 15, 266-274.	1.5	39
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 Îµv-Integrins and the IGF-I Receptor. Endocrinology, 2008, 149, 1075-1090.	1.4	38
31	Proteomics in chronic wound research: Potentials in healing and health. Proteomics - Clinical Applications, 2010, 4, 204-214.	0.8	38
32	Evolution of insulin-like growth factor-I (IGF-I) action: in vitro characterization of vertebrate IGF-I proteins. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1998, 121, 35-41.	0.7	37
33	Responses of keratinocytes to substrate-bound vitronectin:growth factor complexes. Experimental Cell Research, 2005, 305, 221-232.	1.2	37
34	Uric Acid and Xanthine Oxidoreductase in Wound Healing. Current Rheumatology Reports, 2014, 16, 396.	2.1	36
35	Review: Finding the Culprit: A Review of the Influences of Proteases on the Chronic Wound Environment. International Journal of Lower Extremity Wounds, 2009, 8, 19-27.	0.6	35
36	Preparation of Cultured Skin for Transplantation Using Insulin-like Growth Factor I in Conjunction with Insulin-like Growth Factor Binding Protein 5, Epidermal Growth Factor, and Vitronectin. Transplantation, 2006, 81, 1668-1676.	0.5	34

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37	Organotypic culture of normal, dysplastic and squamous cell carcinomaâ€derived oral cell lines reveals loss of spatial regulation of CD44 and p75^{NTR} in malignancy. Journal of Oral Pathology and Medicine, 2013, 42, 37-46.	1.4	33
38	Surface Modification by Complexes of Vitronectin and Growth Factors for Serum-Free Culture of Human Osteoblasts. Tissue Engineering, 2005, 11, 1688-1698.	4.9	32
39	Insulin-Like Growth Factor-I:Vitronectin Complex-Induced Changes in Gene Expression Effect Breast Cell Survival and Migration. Endocrinology, 2011, 152, 1388-1401.	1.4	32
40	Insulin-Like Growth Factor-II Bound to Vitronectin Enhances MCF-7 Breast Cancer Cell Migration. Endocrinology, 2003, 144, 2417-2424.	1.4	31
41	Optimized delivery of skin keratinocytes by aerosolization and suspension in fibrin tissue adhesive. Wound Repair and Regeneration, 2006, 14, 354-363.	1.5	31
42	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.	1.3	31
43	A Comparison of Methods for Classifying Clinical Samples Based on Proteomics Data: A Case Study for Statistical and Machine Learning Approaches. PLoS ONE, 2011, 6, e24973.	1.1	31
44	Chimeric vitronectin:insulin-like growth factor proteins enhance cell growth and migration through co-activation of receptors. Growth Factors, 2007, 25, 295-308.	0.5	30
45	Serum-Free Primary Human Fibroblast and Keratinocyte Coculture. Tissue Engineering - Part A, 2010, 16, 1407-1420.	1.6	29
46	The Kangaroo Cation-independent Mannose 6-Phosphate Receptor Binds Insulin-like Growth Factor II with Low Affinity. Journal of Biological Chemistry, 1999, 274, 27076-27082.	1.6	28
47	Evolution of Insulin-like Growth Factor (IGF) Function: Production and Characterization of Recombinant Hagfish IGF. General and Comparative Endocrinology, 1997, 105, 79-90.	0.8	25
48	Facilitators and barriers of using digital technology for the management of diabetic foot ulcers: A qualitative systematic review. International Wound Journal, 2020, 17, 1266-1281.	1.3	25
49	In Vitro Investigations on the Effect of Dermal Fibroblasts on Keratinocyte Responses to Ultraviolet B Radiation. Photochemistry and Photobiology, 2014, 90, 1332-1339.	1.3	24
50	Investigating the potential of Shikonin as a novel hypertrophic scar treatment. Journal of Biomedical Science, 2015, 22, 70.	2.6	22
51	Functional and phenotypic characterization of human keratinocytes expanded in microcarrier culture. Journal of Biomedical Materials Research - Part A, 2009, 88A, 184-194.	2.1	21
52	Anti-inflammatory effects of shikonin in human periodontal ligament cells. Pharmaceutical Biology, 2018, 56, 415-421.	1.3	21
53	Xanthine Oxidoreductase: A Novel Therapeutic Target for the Treatment of Chronic Wounds?. Advances in Wound Care, 2018, 7, 95-104.	2.6	19
54	Vitronectin supports migratory responses of corneal epithelial cells to substrate bound IGF-I and HGF, and facilitates serum-free cultivation. Experimental Eye Research, 2006, 83, 1505-1514.	1.2	18

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55	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.	1.7	18
56	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.	1.1	18
57	Mathematical Modelling of Aerosolised Skin Grafts Incorporating Keratinocyte Clonal Subtypes. Bulletin of Mathematical Biology, 2007, 69, 157-179.	0.9	17
58	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.	1.1	17
59	Insulinâ€like growth factorâ€I and <scp>UVB</scp> photoprotection in human keratinocytes. Experimental Dermatology, 2015, 24, 235-238.	1.4	17
60	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.	1.1	16
61	Urinary biomarkers of physical activity: candidates and clinical utility. Expert Review of Proteomics, 2014, 11, 91-106.	1.3	16
62	Severe hypoxia and malnutrition collectively contribute to scar fibroblast inhibition and cell apoptosis. Wound Repair and Regeneration, 2015, 23, 664-671.	1.5	16
63	Functional and mechanistic investigation of Shikonin in scarring. Chemico-Biological Interactions, 2015, 228, 18-27.	1.7	16
64	Targeting Insulin-Like Growth Factor-I and Extracellular Matrix Interactions in Melanoma Progression. Scientific Reports, 2018, 8, 583.	1.6	16
65	Mechanistic investigations into interactions between IGF-I and IGFBPs and their impact on facilitating cell migration on vitronectin. Growth Factors, 2010, 28, 359-369.	0.5	15
66	Vascular and Collagen Target: A Rational Approach to Hypertrophic Scar Management. Advances in Wound Care, 2023, 12, 38-55.	2.6	14
67	A peptidomimetic inhibitor of matrix metalloproteinases containing a tetherable linker group. Journal of Biomedical Materials Research - Part A, 2011, 96A, 663-672.	2.1	13
68	Effectiveness of an acellular synthetic matrix in the treatment of hardâ€toâ€heal leg ulcers. International Wound Journal, 2014, 11, 129-137.	1.3	9
69	In vitro characterization and in vivo clearance of recombinant barramundi (Lates calcarifer) IGF-I. Aquaculture, 1999, 177, 153-160.	1.7	8
70	A tan in a test tube â€“in vitro models for investigating ultraviolet radiationâ€“induced damage in skin. Experimental Dermatology, 2012, 21, 404-410.	1.4	8
71	MS-based metabolomics facilitates the discovery of in vivo functional small molecules with a diversity of biological contexts. Future Medicinal Chemistry, 2013, 5, 1953-1965.	1.1	8
72	An investigation into the effect of amphiphilic siloxane oligomers on dermal fibroblasts. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1919-1927.	2.1	7

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73	Transglutaminases and receptor tyrosine kinases. Amino Acids, 2013, 44, 19-24.	1.2	7
74	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.	1.1	7
75	A preâ€clinical functional assessment of an acellular scaffold intended for the treatment of hardâ€toâ€heal wounds. International Wound Journal, 2015, 12, 160-168.	1.3	7
76	Evaluation of haemoglobin in blister fluid as an indicator of paediatric burn wound depth. Burns, 2015, 41, 1114-1121.	1.1	7
77	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.	1.6	6
78	The effect of amphiphilic siloxane oligomers on fibroblast and keratinocyte proliferation and apoptosis. Journal of Biomedical Materials Research - Part A, 2010, 95A, 620-631.	2.1	6
79	PEGylation of lysine residues reduces the pro-migratory activity of IGF-I. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4734-4742.	1.1	6
80	Provisional Matrix Deposition in Hemostasis and Venous Insufficiency: Tissue Preconditioning for Nonhealing Venous Ulcers. Advances in Wound Care, 2015, 4, 174-191.	2.6	6
81	Antagonists of IGF:Vitronectin Interactions Inhibit IGF-Iâ€“Induced Breast Cancer Cell Functions. Molecular Cancer Therapeutics, 2016, 15, 1602-1613.	1.9	5
82	Wound management innovation cooperative research centre â€“ a new model for interâ€disciplinary wound research. International Wound Journal, 2012, 9, 111-114.	1.3	3
83	Lysine residues of IGF-I are substrates for transglutaminases and modulate downstream IGF-I signalling. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 3176-3185.	1.9	3
84	Wound Care Innovation for the Tropicsâ€"An Industryâ€Facing Singaporean Initiative Focussed on Wounds and Wound Care in Asian Populations. International Wound Journal, 2018, 15, 183-184.	1.3	2
85	Insulin-like growth factor-I rescue of primary keratinocytes from pre- and post-ultraviolet B radiation effects. Journal of Photochemistry and Photobiology B: Biology, 2020, 209, 111951.	1.7	2
86	RPA facilitates rescue of keratinocytes from UVB radiation damage through insulin-like growth factor-I signalling. Journal of Cell Science, 2021, 134, .	1.2	2
87	Investigating the Effects of Shikonin, Deoxyshikonin, and (Î²,Î²-Dimethylacryl)Shikonin on Melanoma Cell Lines. Natural Product Communications, 2020, 15, 1934578X2092232.	0.2	1
88	Potential pitfalls of radiolabel adsorption to ceramic biomaterials. Journal of Biomedical Materials Research - Part A, 2005, 72A, 363-372.	2.1	0
89	Unravelling the insulin-like growth factor I-mediated photoprotection of the skin. Cytokine and Growth Factor Reviews, 2020, 52, 45-55.	3.2	0