Jean F Welter

List of Publications by Year
in descending order

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51 papers	3,593 citations	201385 27 h-index	197535 49 g-index
53 all docs	53 docs citations	53 times ranked	4175 citing authors

#	Article	IF	Citations
1	FGF-2 enhances the mitotic and chondrogenic potentials of human adult bone marrow-derived mesenchymal stem cells. Journal of Cellular Physiology, 2005, 203, 398-409.	2.0	443
2	Exploring the Transâ€Cleavage Activity of CRISPRâ€Cas12a (cpf1) for the Development of a Universal Electrochemical Biosensor. Angewandte Chemie - International Edition, 2019, 58, 17399-17405.	7.2	399
3	Chondrogenic Differentiation of Mesenchymal Stem Cells: Challenges and Unfulfilled Expectations. Tissue Engineering - Part B: Reviews, 2014, 20, 596-608.	2.5	269
4	S100A11, S100A10, Annexin I, Desmosomal Proteins, Small Proline-rich Proteins, Plasminogen Activator Inhibitor-2, and Involucrin Are Components of the Cornified Envelope of Cultured Human Epidermal Keratinocytes. Journal of Biological Chemistry, 1997, 272, 12035-12046.	1.6	201
5	Fibroblast Growth Factor-2 Enhances Proliferation and Delays Loss of Chondrogenic Potential in Human Adult Bone-Marrow-Derived Mesenchymal Stem Cells. Tissue Engineering - Part A, 2010, 16, 1009-1019.	1.6	181
6	Fos-related Antigen (Fra-1), junB, and junD Activate Human Involucrin Promoter Transcription by Binding to Proximal and Distal AP1 Sites to Mediate Phorbol Ester Effects on Promoter Activity. Journal of Biological Chemistry, 1995, 270, 12614-12622.	1.6	174
7	The Epidermis: Genes On â€“ Genes Off. Journal of Investigative Dermatology, 1997, 109, 501-509.	0.3	171
8	Involucrinâ€”Structure and Role in Envelope Assembly. Journal of Investigative Dermatology, 1993, 100, 613-617.	0.3	168
9	Regulation of Human Involucrin Promoter Activity by a Protein Kinase C, Ras, MEKK1, MEK3, p38/RK, AP1 Signal Transduction Pathway. Journal of Biological Chemistry, 1998, 273, 24387-24395.	1.6	138
10	In vitro generation of mechanically functional cartilage grafts based on adult human stem cells and 3D-woven poly(É›-caprolactone) scaffolds. Biomaterials, 2010, 31, 2193-2200.	5.7	107
11	Sequential exposure to fibroblast growth factors (FGF) 2, 9 and 18 enhances hMSC chondrogenic differentiation. Osteoarthritis and Cartilage, 2015, 23, 443-453.	0.6	106
12	High-throughput aggregate culture system to assess the chondrogenic potential of mesenchymal stem cells. BioTechniques, 2005, 39, 687-691.	0.8	105
13	Transcription factor regulation of epidermal keratinocyte gene expression. Molecular Biology Reports, 1996, 23, 59-70.	1.0	97
14	A Rapid Seeding Technique for the Assembly of Large Cell/Scaffold Composite Constructs. Tissue Engineering, 2006, 12, 1851-1863.	4.9	94
15	Hydrostatic pressure induces apoptosis in human chondrocytes from osteoarthritic cartilage through up-regulation of tumor necrosis factor-?, inducible nitric oxide synthase, p53, c-myc, and bax-?, and suppression of bcl-2. Journal of Cellular Biochemistry, 2002, 87, 266-278.	1.2	79
16	Chondrogenesis and Mineralization DuringIn VitroCulture of Human Mesenchymal Stem Cells on Three-Dimensional Woven Scaffolds. Tissue Engineering - Part A, 2010, 16, 3709-3718.	1.6	79
17	Primary cilia modulate Ihh signal transduction in response to hydrostatic loading of growth plate chondrocytes. Bone, 2012, 50, 79-84.	1.4	77
18	Exploring the Transâ€Cleavage Activity of CRISPRâ€Cas12a (cpf1) for the Development of a Universal Electrochemical Biosensor. Angewandte Chemie, 2019, 131, 17560-17566.	1.6	74

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19	Cartilage Tissue Engineering for Laryngotracheal Reconstruction: Comparison of Chondrocytes from Three Anatomic Locations in the Rabbit. Tissue Engineering, 2007, 13, 843-853.	4.9	60
20	CCAAT/Enhancer-binding Proteins. Journal of Biological Chemistry, 1999, 274, 6190-6194.	1.6	55
21	Regulation of Human Involucrin Promoter Activity by POU Domain Proteins. Journal of Biological Chemistry, 1996, 271, 14727-14733.	1.6	54
22	Nondestructive Evaluation of Hydrogel Mechanical Properties Using Ultrasound. Annals of Biomedical Engineering, 2011, 39, 2521-2530.	1.3	52
23	Effect of hydroxyapatite/tricalcium-phosphate coating on osseointegration of plasma-sprayed titanium alloy implants. Journal of Biomedical Materials Research Part B, 2004, 69A, 1-10.	3.0	46
24	Concentrated collagenâ€chondroitin sulfate scaffolds for tissue engineering applications. Journal of Biomedical Materials Research - Part A, 2010, 94A, 1050-1060.	2.1	45
25	Simplification of aggregate culture of human mesenchymal stem cells as a chondrogenic screening assay. BioTechniques, 2007, 42, 732-737.	0.8	38
26	Evaluation of machining methods for trabecular metal implants in a rabbit intramedullary osseointegration model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 80B, 528-540.	1.6	32
27	[illegible] structure, and expression pattern of CTNNBL1, a minor-class intron-containing geneâ€"evidence for a role in apoptosisâ˜†â˜†Sequence data from this article have been deposited with the GenBank Data Libraries under accession numbers as follows: Homo sapiens CTNNBL1: AF239607, AL109964, AL023804, AL118499. Mus musculus CTNNBL1: AY009405. Caenorhabditis elegans CTNNBL1: AAB37831, U80450. Drosophila melanogaster CTNNBL1: AE003681, AAF54309. Schizosaccharomyces pombe CTNNBL1: CAB52570. Archives of Oral Biology, 2002, 81, 303-303.	1.3	28
28	Chondrogenic, hypertrophic, and osteochondral differentiation of human mesenchymal stem cells on threeâ€dimensionally woven scaffolds. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1453-1465.	1.3	21
29	Multimodal evaluation of tissue-engineered cartilage. Journal of Medical and Biological Engineering, 2013, 33, 1.	1.0	19
30	Growth Factor Dose Tuning for Bone Progenitor Cell Proliferation and Differentiation on Resorbable Poly(propylene fumarate) Scaffolds. Tissue Engineering - Part C: Methods, 2016, 22, 904-913.	1.1	19
31	Micrometer scale guidance of mesenchymal stem cells to form structurally oriented large-scale tissue engineered cartilage. Acta Biomaterialia, 2017, 60, 210-219.	4.1	19
32	Micrometer Scale Guidance of Mesenchymal Stem Cells to Form Structurally Oriented Cartilage Extracellular Matrix. Tissue Engineering - Part A, 2013, 19, 1081-1090.	1.6	17
33	Cyclosporin a and tissue antigen matching in bone transplantation: Fibular allografts studied in the dog. Acta Orthopaedica, 1990, 61, 517-527.	1.4	16
34	Ultrasound Elastography for Estimation of Regional Strain of Multilayered Hydrogels and Tissue-Engineered Cartilage. Annals of Biomedical Engineering, 2015, 43, 2991-3003.	1.3	14
35	Assessing Adipogenic Potential of Mesenchymal Stem Cells: A Rapid Three-Dimensional Culture Screening Technique. Stem Cells International, 2013, 2013, 1-8.	1.2	12
36	Towards the Feasibility of Using Ultrasound to Determine Mechanical Properties of Tissues in a Bioreactor. Annals of Biomedical Engineering, 2014, 42, 2190-2202.	1.3	12

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37	Imaging Stem Cell Differentiation for Cell-Based Tissue Repair. Methods in Enzymology, 2012, 506, 247-263.	0.4	10
38	Rapid Detection of Shear-Induced Damage in Tissue-Engineered Cartilage Using Ultrasound. Tissue Engineering - Part C: Methods, 2018, 24, 443-456.	1.1	10
39	ROCK Inhibition Promotes the Development of Chondrogenic Tissue by Improved Mass Transport. Tissue Engineering - Part A, 2018, 24, 1218-1227.	1.6	9
40	Combined Experimental and Mathematical Approach for Development of Microfabrication-Based Cancer Migration Assay. Annals of Biomedical Engineering, 2011, 39, 2346-2359.	1.3	7
41	Nondestructive Techniques to Evaluate the Characteristics and Development of Engineered Cartilage. Annals of Biomedical Engineering, 2016, 44, 733-749.	1.3	7
42	Chondrogenesis of Mesenchymal Stem Cells through Local Release of TGF-Î²3 from Heparinized Collagen Biofabric. Tissue Engineering - Part A, 2021, 27, 1434-1445.	1.6	7
43	Glucose Availability Affects Extracellular Matrix Synthesis During ChondrogenesisIn Vitro. Tissue Engineering - Part A, 2021, 27, 1321-1332.	1.6	6
44	An Integrated Multiâ€Function Heterogeneous Biochemical Circuit for Highâ€Resolution Electrochemistryâ€Based Genetic Analysis. Angewandte Chemie, 2020, 132, 20726-20732.	1.6	5
45	Dynamics of Intrinsic Glucose Uptake Kinetics in Human Mesenchymal Stem Cells During Chondrogenesis. Annals of Biomedical Engineering, 2018, 46, 1896-1910.	1.3	4
46	Isolation of Chondrocytes from Human Cartilage and Cultures in Monolayer and 3D. Methods in Molecular Biology, 2021, 2245, 1-12.	0.4	3
47	Fos-related antigen (Fra-1), junB, and junD activate human involucrin promoter transcription by binding to proximal and distal AP1 sites to mediate phorbol ester effects on promoter activity.. Journal of Biological Chemistry, 1996, 271, 11034b.	1.6	2
48	The nonlinear relationship between speed of sound and compression in articular cartilage: Measurements and modeling. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103923.	1.5	1
49	Innentitelbild: Exploring the Transâ€Cleavage Activity of CRISPRâ€Cas12a (cpf1) for the Development of a Universal Electrochemical Biosensor (Angew. Chem. 48/2019). Angewandte Chemie, 2019, 131, 17242-17242.	1.6	0
50	Innentitelbild: An Integrated Multiâ€Function Heterogeneous Biochemical Circuit for Highâ€Resolution Electrochemistryâ€Based Genetic Analysis (Angew. Chem. 46/2020). Angewandte Chemie, 2020, 132, 20426-20426.	1.6	0
51	Apparatus and Method for Rapid Detection of Acoustic Anisotropy in Cartilage. Journal of Medical and Biological Engineering, 2020, 40, 419-427.	1.0	0