

Matthew B Wheeler

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63
papers

2,527
citations

25
h-index

49
g-index

71
ext. papers

2,834
ext. citations

4.7
avg, IF

4.79
L-index

#	Paper	IF	Citations
63	The mechanical properties and osteoconductivity of hydroxyapatite bone scaffolds with multi-scale porosity. <i>Biomaterials</i> , 2007 , 28, 45-54	15.6	588
62	Multiscale osteointegration as a new paradigm for the design of calcium phosphate scaffolds for bone regeneration. <i>Biomaterials</i> , 2010 , 31, 3552-63	15.6	159
61	Embryonic development in the mouse is enhanced via microchannel culture. <i>Lab on A Chip</i> , 2004 , 4, 186-90	9.2	136
60	Gradient light interference microscopy for 3D imaging of unlabeled specimens. <i>Nature Communications</i> , 2017 , 8, 210	17.4	112
59	The effect of BMP-2 on micro- and macroscale osteointegration of biphasic calcium phosphate scaffolds with multiscale porosity. <i>Acta Biomaterialia</i> , 2010 , 6, 3283-91	10.8	96
58	Computer aided-designed, 3-dimensionally printed porous tissue bioscaffolds for craniofacial soft tissue reconstruction. <i>Otolaryngology - Head and Neck Surgery</i> , 2015 , 152, 57-62	5.5	88
57	Analysis of the roles of microporosity and BMP-2 on multiple measures of bone regeneration and healing in calcium phosphate scaffolds. <i>Acta Biomaterialia</i> , 2011 , 7, 1760-71	10.8	84
56	Intersexuality and the cricket frog decline: historic and geographic trends. <i>Environmental Health Perspectives</i> , 2005 , 113, 261-5	8.4	83
55	Reduction of polyspermic penetration using biomimetic microfluidic technology during in vitro fertilization. <i>Lab on A Chip</i> , 2005 , 5, 1229-32	7.2	77
54	Treatment of severe porcine tracheomalacia with a 3-dimensionally printed, bioresorbable, external airway splint. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2014 , 140, 66-71	3.9	72
53	Design control for clinical translation of 3D printed modular scaffolds. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 774-86	4.7	69
52	Smartphone-based multiplex 30-minute nucleic acid test of live virus from nasal swab extract. <i>Lab on A Chip</i> , 2020 , 20, 1621-1627	7.2	68
51	Transcriptomics comparison between porcine adipose and bone marrow mesenchymal stem cells during in vitro osteogenic and adipogenic differentiation. <i>PLoS ONE</i> , 2012 , 7, e32481	3.7	61
50	Production of bovine alpha-lactalbumin in the milk of transgenic pigs. <i>Journal of Animal Science</i> , 1998 , 76, 3072-8	0.7	60
49	Application of sexed semen technology to in vitro embryo production in cattle. <i>Theriogenology</i> , 2006 , 65, 219-27	2.8	48
48	Adipose-derived mesenchymal stem cells enhance healing of mandibular defects in the ramus of swine. <i>Journal of Oral and Maxillofacial Surgery</i> , 2012 , 70, e193-203	1.8	42
47	Integrating Image-Based Design and 3D Biomaterial Printing to create Patient Specific Devices within a Design Control Framework for Clinical Translation. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1827-1836	5.5	38

46	Agricultural applications for transgenic livestock. <i>Trends in Biotechnology</i> , 2007 , 25, 204-10	15.1	38
45	Morphologic and transcriptomic comparison of adipose- and bone-marrow-derived porcine stem cells cultured in alginate hydrogels. <i>Cell and Tissue Research</i> , 2010 , 341, 359-70	4.2	37
44	Transcription Adaptation during In Vitro Adipogenesis and Osteogenesis of Porcine Mesenchymal Stem Cells: Dynamics of Pathways, Biological Processes, Up-Stream Regulators, and Gene Networks. <i>PLoS ONE</i> , 2015 , 10, e0137644	3.7	31
43	Disrupted redox homeostasis and aberrant redox gene expression in porcine oocytes contribute to decreased developmental competence. <i>Biology of Reproduction</i> , 2012 , 87, 78	3.9	30
42	Facilitative actions of the protein kinase-C effector system on hormonally stimulated adenosine 3',5'-monophosphate production by swine luteal cells. <i>Endocrinology</i> , 1989 , 125, 2414-20	4.8	30
41	Mammary specific transgenic over-expression of insulin-like growth factor-I (IGF-I) increases pig milk IGF-I and IGF binding proteins, with no effect on milk composition or yield. <i>Transgenic Research</i> , 2005 , 14, 761-73	3.3	29
40	Developmental basis of mammalian digit reduction: a case study in pigs. <i>Evolution & Development</i> , 2011 , 13, 533-41	2.6	27
39	Ambient ionisation mass spectrometry for lipid profiling and structural analysis of mammalian oocytes, preimplantation embryos and stem cells. <i>Reproduction, Fertility and Development</i> , 2015 , 27, 621-37	1.8	26
38	Co-culture of adipose-derived stem cells and chondrocytes on three-dimensionally printed bioscaffolds for craniofacial cartilage engineering. <i>Laryngoscope</i> , 2018 , 128, E251-E257	3.6	25
37	Capacitation of bovine spermatozoa by lysophospholipids and trypsin. <i>Gamete Research</i> , 1989 , 22, 193-204		23
36	Zona pellucida penetration assay for capacitation of bovine sperm. <i>Gamete Research</i> , 1987 , 18, 237-50		22
35	Transgenic bovine as bioreactors: Challenges and perspectives. <i>Bioengineered</i> , 2016 , 7, 123-31	5.7	22
34	Selection and reliability of internal reference genes for quantitative PCR verification of transcriptomics during the differentiation process of porcine adult mesenchymal stem cells. <i>Stem Cell Research and Therapy</i> , 2010 , 1, 7	8.3	21
33	Use of Pig as a Model for Mesenchymal Stem Cell Therapies for Bone Regeneration. <i>Animal Biotechnology</i> , 2017 , 28, 275-287	1.4	20
32	Mammalian embryo culture in a microfluidic device. <i>Methods in Molecular Biology</i> , 2004 , 254, 375-82	1.4	20
31	Catalytic and receptor-binding properties of the calcium-sensitive phospholipid-dependent protein kinase (protein kinase C) in swine luteal cytosol. <i>Molecular and Cellular Endocrinology</i> , 1987 , 50, 123-9	4.4	20
30	Morphological and Transcriptomic Comparison of Adipose and Bone Marrow Derived Porcine Stem Cells. <i>The Open Tissue Engineering and Regenerative Medicine Journal</i> , 2009 , 2, 20-33		17
29	Shape-fitting collagen-PLA composite promotes osteogenic differentiation of porcine adipose stem cells. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 95, 21-33	4.1	16

28	Gene-centromere mapping of bovine DYA, DRB3, and PRL using secondary oocytes and first polar bodies: evidence for four-strand double crossovers between DYA and DRB3. <i>Genomics</i> , 1995 , 27, 33-9	4.3	16
27	A Mineralized Collagen-Polycaprolactone Composite Promotes Healing of a Porcine Mandibular Defect. <i>Tissue Engineering - Part A</i> , 2018 , 24, 943-954	3.9	12
26	Association of the porcine transforming growth factor beta type I receptor (TGFB1) gene with growth and carcass traits. <i>Animal Biotechnology</i> , 2012 , 23, 43-63	1.4	12
25	Reproductive outcomes predicted by phase imaging with computational specificity of spermatozoon ultrastructure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 18302-18309	11.5	12
24	Emergency ventilator for COVID-19. <i>PLoS ONE</i> , 2020 , 15, e0244963	3.7	11
23	Generation and exploration of a dense genetic map in a region of a QTL affecting corpora lutea in a Meishan x Yorkshire cross. <i>Mammalian Genome</i> , 2001 , 12, 719-23	3.2	10
22	Interactions of protein kinase C with receptor- and non-receptor-mediated cyclic AMP generation in swine granulosa cells. <i>Molecular and Cellular Endocrinology</i> , 1988 , 59, 195-203	4.4	10
21	Topography and refractometry of sperm cells using spatial light interference microscopy. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-6	3.5	10
20	Modification of the Genome of Domestic Animals. <i>Animal Biotechnology</i> , 2017 , 28, 198-210	1.4	9
19	Mineralized collagen scaffolds fabricated with amniotic membrane matrix increase osteogenesis under inflammatory conditions. <i>International Journal of Energy Production and Management</i> , 2020 , 7, 247-258	5.3	9
18	Myogenic potential of mesenchymal stem cells isolated from porcine adipose tissue. <i>Cell and Tissue Research</i> , 2018 , 372, 507-522	4.2	9
17	SLIM microscopy allows for visualization of DNA-containing liposomes designed for sperm-mediated gene transfer in cattle. <i>Molecular Biology Reports</i> , 2019 , 46, 695-703	2.8	8
16	Morphometric analysis of sperm used for IVP by three different separation methods with spatial light interference microscopy. <i>Systems Biology in Reproductive Medicine</i> , 2020 , 66, 26-36	2.9	7
15	Low-Complexity System and Algorithm for an Emergency Ventilator Sensor and Alarm. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2020 , 14, 1088-1096	5.1	7
14	Unexpected effect of the vehicle (grain ethanol) of homeopathic FSH on the in vitro survival and development of isolated ovine preantral follicles. <i>Microscopy Research and Technique</i> , 2017 , 80, 406-418	2.8	6
13	Genetic Modification of Bovine β Casein and Its Expression in the Milk of Transgenic Mice. <i>Journal of Agricultural and Food Chemistry</i> , 1996 , 44, 953-960	5.7	6
12	MAC-T cells as a tool to evaluate lentiviral vector construction targeting recombinant protein expression in milk. <i>Animal Biotechnology</i> , 2015 , 26, 136-42	1.4	5
11	Evaluation of Chitosan/Biphasic Calcium Phosphate Scaffolds for Maxillofacial Bone Tissue Engineering. <i>Macromolecular Symposia</i> , 2008 , 269, 100-105	0.8	5

10	Non-invasive nuclear magnetic resonance analysis of male and female embryo metabolites during in vitro embryo culture. <i>Metabolomics</i> , 2018 , 14, 113	4.7	5
9	Use of a novel polydimethylsiloxane well insert to successfully mature, culture and identify single porcine oocytes and embryos. <i>Reproduction, Fertility and Development</i> , 2014 , 26, 375-84	1.8	3
8	High-throughput sperm assay using label-free microscopy: morphometric comparison between different sperm structures of boar and stallion spermatozoa. <i>Animal Reproduction Science</i> , 2020 , 219, 106509	2.1	3
7	High diluted and dynamised follicle stimulating hormone modulates steroid production in isolated porcine preantral follicles cultured in vitro. <i>Homeopathy</i> , 2017 , 106, 87-92	1.4	2
6	Repair of critical-size porcine craniofacial bone defects using a collagen-polycaprolactone composite biomaterial. <i>Biofabrication</i> , 2021 , 14,	10.5	2
5	Non-invasive analysis of bovine embryo metabolites during in vitro embryo culture using nuclear magnetic resonance. <i>AIMS Bioengineering</i> , 2016 , 3, 538-551	3.4	1
4	In vitro long-term culture of isolated ovine preantral follicles: Influence of ethanol on steroid production, oocyte meiotic resumption, and metabolomic profile. <i>Research in Veterinary Science</i> , 2021 , 135, 432-441	2.5	1
3	Design and Quality Control for Translating 3D-Printed Scaffolds 2015 , 43-59		
2	Stem Cell and Germ Cell Technology 2011 , 1009-1012		
1	Label-free microscopy: A non-invasive new tool to assess gametes and embryo quality. <i>Theriogenology</i> , 2020 , 150, 241-246	2.8	