

Charles James Kirkpatrick

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421
papers

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69
h-index

106
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449
ext. papers

18,179
ext. citations

5.2
avg. IF

6.39
L-index

#	Paper	IF	Citations
421	Non-neuronal acetylcholine, a locally acting molecule, widely distributed in biological systems: expression and function in humans 1998 , 77, 59-79		324
420	Tissue-like self-assembly in cocultures of endothelial cells and osteoblasts and the formation of microcapillary-like structures on three-dimensional porous biomaterials. <i>Biomaterials</i> , 2007 , 28, 3965-76	15.6	321
419	Osteonecrosis of the jaws in patients treated with bisphosphonates - histomorphologic analysis in comparison with infected osteoradionecrosis. <i>Journal of Oral Pathology and Medicine</i> , 2006 , 35, 155-60	3.3	270
418	Effects of nano-scaled particles on endothelial cell function in vitro: studies on viability, proliferation and inflammation. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 321-5	4.5	234
417	Advanced platelet-rich fibrin: a new concept for cell-based tissue engineering by means of inflammatory cells. <i>Journal of Oral Implantology</i> , 2014 , 40, 679-89	1.2	233
416	The cholinergic pitfall: acetylcholine, a universal cell molecule in biological systems, including humans. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1999 , 26, 198-205	3	232
415	In vitro expression of the endothelial phenotype: comparative study of primary isolated cells and cell lines, including the novel cell line HPMEC-ST1.6R. <i>Microvascular Research</i> , 2002 , 64, 384-97	3.7	226
414	Non-neuronal acetylcholine, a signalling molecule synthesized by surface cells of rat and man. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1997 , 355, 515-23	3.4	218
413	Lung epithelial cell lines in coculture with human pulmonary microvascular endothelial cells: development of an alveolo-capillary barrier in vitro. <i>Laboratory Investigation</i> , 2004 , 84, 736-52	5.9	216
412	Growth of human cells on a non-woven silk fibroin net: a potential for use in tissue engineering. <i>Biomaterials</i> , 2004 , 25, 1069-75	15.6	216
411	The non-neuronal cholinergic system in humans: expression, function and pathophysiology. <i>Life Sciences</i> , 2003 , 72, 2055-61	6.8	200
410	Expression of Cx26, Cx32 and Cx43 gap junction proteins in normal and neoplastic human tissues. <i>International Journal of Cancer</i> , 1992 , 51, 522-9	7.5	199
409	Molecular basis of endothelial dysfunction in sepsis. <i>Cardiovascular Research</i> , 2003 , 60, 49-57	9.9	190
408	Endothelialization of a non-woven silk fibroin net for use in tissue engineering: growth and gene regulation of human endothelial cells. <i>Biomaterials</i> , 2004 , 25, 5137-46	15.6	186
407	Crosstalk between osteoblasts and endothelial cells co-cultured on a polycaprolactone-starch scaffold and the in vitro development of vascularization. <i>Biomaterials</i> , 2009 , 30, 4407-15	15.6	180
406	The rapid anastomosis between prevascularized networks on silk fibroin scaffolds generated in vitro with cocultures of human microvascular endothelial and osteoblast cells and the host vasculature. <i>Biomaterials</i> , 2010 , 31, 6959-67	15.6	177
405	Contribution of outgrowth endothelial cells from human peripheral blood on in vivo vascularization of bone tissue engineered constructs based on starch polycaprolactone scaffolds. <i>Biomaterials</i> , 2009 , 30, 526-34	15.6	164

404	Dose-related effects of shock waves on rabbit tendo Achillis. A sonographic and histological study. <i>Journal of Bone and Joint Surgery: British Volume</i> , 1998 , 80, 546-52		160
403	The effect of human osteoblasts on proliferation and neo-vessel formation of human umbilical vein endothelial cells in a long-term 3D co-culture on polyurethane scaffolds. <i>Biomaterials</i> , 2008 , 29, 4217-26	15.6	159
402	Co-culture systems for vascularization--learning from nature. <i>Advanced Drug Delivery Reviews</i> , 2011 , 63, 291-9	18.5	158
401	Expression of the endothelial markers PECAM-1, vWf, and CD34 in vivo and in vitro. <i>Experimental and Molecular Pathology</i> , 2002 , 72, 221-9	4.4	158
400	Endothelial cell colonization and angiogenic potential of combined nano- and micro-fibrous scaffolds for bone tissue engineering. <i>Biomaterials</i> , 2008 , 29, 4306-13	15.6	154
399	Porous gelatin hydrogels: 2. In vitro cell interaction study. <i>Biomacromolecules</i> , 2007 , 8, 338-44	6.9	153
398	The Non-neuronal cholinergic system: an emerging drug target in the airways. <i>Pulmonary Pharmacology and Therapeutics</i> , 2001 , 14, 423-34	3.5	148
397	Actinomycosis of the jaws--histopathological study of 45 patients shows significant involvement in bisphosphonate-associated osteonecrosis and infected osteoradionecrosis. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2007 , 451, 1009-17	5.1	147
396	Gold nanoparticles induce cytotoxicity in the alveolar type-II cell lines A549 and NCIH441. <i>Particle and Fibre Toxicology</i> , 2009 , 6, 18	8.4	140
395	Microvessel-like structures from outgrowth endothelial cells from human peripheral blood in 2-dimensional and 3-dimensional co-cultures with osteoblastic lineage cells. <i>Tissue Engineering</i> , 2007 , 13, 2577-88		136
394	Dynamic processes involved in the pre-vascularization of silk fibroin constructs for bone regeneration using outgrowth endothelial cells. <i>Biomaterials</i> , 2009 , 30, 1329-38	15.6	133
393	Influence of tricalcium phosphate granule size and morphology on tissue reaction in vivo. <i>Acta Biomaterialia</i> , 2010 , 6, 4476-87	10.8	133
392	Generation of human pulmonary microvascular endothelial cell lines. <i>Laboratory Investigation</i> , 2001 , 81, 1717-27	5.9	126
391	The non-neuronal cholinergic system of human skin. <i>Hormone and Metabolic Research</i> , 2007 , 39, 125-35	3.1	125
390	The biological role of non-neuronal acetylcholine in plants and humans. <i>The Japanese Journal of Pharmacology</i> , 2001 , 85, 2-10		124
389	Microcirculatory dysfunction in sepsis: a pathogenetic basis for therapy?. <i>Journal of Pathology</i> , 2000 , 190, 373-86	9.4	120
388	Efficacy and safety of imatinib in adult patients with c-kit-positive acute myeloid leukemia. <i>Blood</i> , 2004 , 103, 3644-54	2.2	119
387	Outgrowth endothelial cells isolated and expanded from human peripheral blood progenitor cells as a potential source of autologous cells for endothelialization of silk fibroin biomaterials. <i>Biomaterials</i> , 2006 , 27, 5399-408	15.6	114

386	Uptake and cytotoxicity of citrate-coated gold nanospheres: Comparative studies on human endothelial and epithelial cells. <i>Particle and Fibre Toxicology</i> , 2012 , 9, 23	8.4	113
385	Response of micro- and macrovascular endothelial cells to starch-based fiber meshes for bone tissue engineering. <i>Biomaterials</i> , 2007 , 28, 240-8	15.6	107
384	Dynamic in vivo biocompatibility of angiogenic peptide amphiphile nanofibers. <i>Biomaterials</i> , 2009 , 30, 6202-12	15.6	106
383	Functionality of endothelial cells on silk fibroin nets: comparative study of micro- and nanometric fibre size. <i>Biomaterials</i> , 2008 , 29, 561-72	15.6	104
382	Biomaterial-induced sarcoma: A novel model to study preneoplastic change. <i>American Journal of Pathology</i> , 2000 , 156, 1455-67	5.8	103
381	Influenza virus damages the alveolar barrier by disrupting epithelial cell tight junctions. <i>European Respiratory Journal</i> , 2016 , 47, 954-66	13.6	102
380	The chemical composition of synthetic bone substitutes influences tissue reactions in vivo: histological and histomorphometrical analysis of the cellular inflammatory response to hydroxyapatite, beta-tricalcium phosphate and biphasic calcium phosphate ceramics. <i>Biomedical Materials (Bristol)</i> , 2012 , 7, 015005	3.5	102
379	Pectus excavatum: history, hypotheses and treatment options. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2012 , 14, 801-6	1.8	101
378	Release of non-neuronal acetylcholine from the isolated human placenta is mediated by organic cation transporters. <i>British Journal of Pharmacology</i> , 2001 , 134, 951-6	8.6	100
377	Size- and coating-dependent uptake of polymer-coated gold nanoparticles in primary human dermal microvascular endothelial cells. <i>Biomacromolecules</i> , 2012 , 13, 1533-43	6.9	99
376	Morphogenesis and possible precursor lesions of invasive carcinoma of the papilla of Vater: epithelial dysplasia and adenoma. <i>Human Pathology</i> , 1985 , 16, 305-10	3.7	96
375	Scaffold vascularization in vivo driven by primary human osteoblasts in concert with host inflammatory cells. <i>Biomaterials</i> , 2011 , 32, 8150-60	15.6	95
374	Macrophage type modulates osteogenic differentiation of adipose tissue MSCs. <i>Cell and Tissue Research</i> , 2017 , 369, 273-286	4.2	92
373	Current strategies and future perspectives for intraperitoneal adhesion prevention. <i>Journal of Gastrointestinal Surgery</i> , 2012 , 16, 1256-74	3.3	92
372	Evaluation of the tissue reaction to a new bilayered collagen matrix in vivo and its translation to the clinic. <i>Biomedical Materials (Bristol)</i> , 2011 , 6, 015010	3.5	92
371	The surface properties of nanoparticles determine the agglomeration state and the size of the particles under physiological conditions. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 1774-1786	3	89
370	Theoretical and practical aspects of testing potential biomaterials in vitro. <i>Journal of Materials Science: Materials in Medicine</i> , 1990 , 1, 9-13	4.5	85
369	Collagen-low molecular weight hyaluronic acid semi-interpenetrating network loaded with gelatin microspheres for cell and growth factor delivery for nucleus pulposus regeneration. <i>Acta Biomaterialia</i> , 2015 , 20, 10-21	10.8	83

368	FVIII production by human lung microvascular endothelial cells. <i>Blood</i> , 2006 , 108, 515-7	2.2	82
367	Histological examination and evaluation of donor bile ducts received during orthotopic liver transplantation--a morphological clue to ischemic-type biliary lesion?. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2012 , 461, 41-8	5.1	79
366	"Race for the Surface": Eukaryotic Cells Can Win. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22025-31	3.5	79
365	Improving vascularization of engineered bone through the generation of pro-angiogenic effects in co-culture systems. <i>Advanced Drug Delivery Reviews</i> , 2015 , 94, 116-25	18.5	78
364	Predictive toxicology of cobalt nanoparticles and ions: comparative in vitro study of different cellular models using methods of knowledge discovery from data. <i>Toxicological Sciences</i> , 2011 , 122, 489-501	4.1	78
363	Tissue response and biomaterial integration: the efficacy of in vitro methods. <i>New Biotechnology</i> , 2002 , 19, 211-7		78
362	Retention of a differentiated endothelial phenotype by outgrowth endothelial cells isolated from human peripheral blood and expanded in long-term cultures. <i>Cell and Tissue Research</i> , 2006 , 326, 79-92	4.2	77
361	Growth of human cells on polyethersulfone (PES) hollow fiber membranes. <i>Biomaterials</i> , 2005 , 26, 1877-84	3.6	77
360	Stable knock-down of the sphingosine 1-phosphate receptor S1P1 influences multiple functions of human endothelial cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005 , 25, 546-52	9.4	76
359	Use of a collagen/elastin-membrane for the tissue engineering of dermis. <i>Burns</i> , 1999 , 25, 373-84	2.3	75
358	Increased acetylcholine levels in skin biopsies of patients with atopic dermatitis. <i>Life Sciences</i> , 2003 , 72, 2169-72	6.8	74
357	Expression of endothelial cell adhesion molecules on heart valves: up-regulation in degeneration as well as acute endocarditis. <i>Journal of Pathology</i> , 2000 , 191, 54-60	9.4	74
356	Response of human endothelial cells to oxidative stress on Ti6Al4V alloy. <i>Biomaterials</i> , 2007 , 28, 806-13	15.6	72
355	Mechanisms of cell activation by heavy metal ions. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 42, 443-52		70
354	Particulate matter contamination of intravenous antibiotics aggravates loss of functional capillary density in postischemic striated muscle. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002 , 165, 514-20	10.2	70
353	Cell culture models of higher complexity in tissue engineering and regenerative medicine. <i>Biomaterials</i> , 2007 , 28, 5193-8	15.6	69
352	Time course of various inflammatory mediators during recurrent endotoxemia. <i>Biochemical Pharmacology</i> , 1992 , 43, 2103-9	6	69
351	Going beyond histology. Synchrotron micro-computed tomography as a methodology for biological tissue characterization: from tissue morphology to individual cells. <i>Journal of the Royal Society Interface</i> , 2010 , 7, 49-59	4.1	68

350	Vascularization and gene regulation of human endothelial cells growing on porous polyethersulfone (PES) hollow fiber membranes. <i>Biomaterials</i> , 2005 , 26, 3461-9	15.6	68
349	Paracrine effects influenced by cell culture medium and consequences on microvessel-like structures in cocultures of mesenchymal stem cells and outgrowth endothelial cells. <i>Tissue Engineering - Part A</i> , 2011 , 17, 2199-212	3.9	67
348	In vivo cellular reactions to different biomaterials-Physiological and pathological aspects and their consequences. <i>Seminars in Immunology</i> , 2017 , 29, 49-61	10.7	63
347	Analysis of the degradation and the tissue response to bi-layered 3D-printed scaffolds combining PLA and biphasic PLA/bioglass components - Guidance of the inflammatory response as basis for osteochondral regeneration. <i>Bioactive Materials</i> , 2017 , 2, 208-223	16.7	63
346	Software-supported image quantification of angiogenesis in an in vitro culture system: application to studies of biocompatibility. <i>Biomaterials</i> , 2002 , 23, 3413-9	15.6	62
345	Expression and function of the non-neuronal cholinergic system in endothelial cells. <i>Life Sciences</i> , 2003 , 72, 2111-6	6.8	61
344	The cell and molecular biological approach to biomaterial research: a perspective. <i>Journal of Materials Science: Materials in Medicine</i> , 1997 , 8, 131-41	4.5	60
343	The non-neuronal cholinergic system in the endothelium: evidence and possible pathobiological significance. <i>The Japanese Journal of Pharmacology</i> , 2001 , 85, 24-8		60
342	Photoactivatable caged cyclic RGD peptide for triggering integrin binding and cell adhesion to surfaces. <i>ChemBioChem</i> , 2011 , 12, 2623-9	3.8	59
341	Metallic nanoparticles exhibit paradoxical effects on oxidative stress and pro-inflammatory response in endothelial cells in vitro. <i>International Journal of Immunopathology and Pharmacology</i> , 2007 , 20, 685-95	3	59
340	Actinomyces in infected osteoradionecrosis--underestimated?. <i>Human Pathology</i> , 2006 , 37, 61-7	3.7	56
339	Comparative study of adhesion molecule expression in cultured human macro- and microvascular endothelial cells. <i>Experimental and Molecular Pathology</i> , 2002 , 73, 171-80	4.4	56
338	Rapid vascularization of starch-poly(caprolactone) in vivo by outgrowth endothelial cells in co-culture with primary osteoblasts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011 , 5, e136-43	4.4	55
337	Analysis of the biological response of endothelial and fibroblast cells cultured on synthetic scaffolds with various hydrophilic/hydrophobic ratios: influence of fibronectin adsorption and conformation. <i>Tissue Engineering - Part A</i> , 2009 , 15, 1331-41	3.9	55
336	An impaired alveolar-capillary barrier in vitro: effect of proinflammatory cytokines and consequences on nanocarrier interaction. <i>Journal of the Royal Society Interface</i> , 2010 , 7 Suppl 1, S41-54	4.1	54
335	Sonic hedgehog promotes angiogenesis and osteogenesis in a coculture system consisting of primary osteoblasts and outgrowth endothelial cells. <i>Tissue Engineering - Part A</i> , 2010 , 16, 1235-7	3.9	54
334	Changes in human endothelial cell energy metabolic capacities during in vitro cultivation. The role of "aerobic glycolysis" and proliferation. <i>Cellular Physiology and Biochemistry</i> , 2009 , 24, 483-92	3.9	54
333	Subendothelial infiltration of neutrophil granulocytes and liberation of matrix-destabilizing enzymes in an experimental model of human neo-intima. <i>Thrombosis and Haemostasis</i> , 2008 , 99, 373-81	7	54

332	Reduction of the relative centrifugal force influences cell number and growth factor release within injectable PRF-based matrices. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 188	4.5	53
331	Platelet-rich fibrin-based matrices to improve angiogenesis in an in vitro co-culture model for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 598-610	4.4	52
330	Primary human coculture model of alveolo-capillary unit to study mechanisms of injury to peripheral lung. <i>Cell and Tissue Research</i> , 2009 , 336, 91-105	4.2	52
329	An injectable bone substitute composed of beta-tricalcium phosphate granules, methylcellulose and hyaluronic acid inhibits connective tissue influx into its implantation bed in vivo. <i>Acta Biomaterialia</i> , 2011 , 7, 4018-28	10.8	51
328	Intraperitoneal adhesions--an ongoing challenge between biomedical engineering and the life sciences. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 98, 143-56	5.4	51
327	The incidence of myelofibrosis in essential thrombocythaemia, polycythaemia vera and chronic idiopathic myelofibrosis: a retrospective evaluation of sequential bone marrow biopsies. <i>Acta Haematologica</i> , 2005 , 113, 137-43	2.7	51
326	Comparative studies on vascular endothelium in vitro. 3. Effects of cytokines on the expression of E-selectin, ICAM-1 and VCAM-1 by cultured human endothelial cells obtained from different passages. <i>Pathobiology</i> , 1995 , 63, 83-92	3.6	51
325	Hyperbranched PEG by random copolymerization of ethylene oxide and glycidol. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 1811-5	4.8	50
324	Hypoxia-inducible factor 1 alpha expression increases during colorectal carcinogenesis and tumor progression. <i>BMC Cancer</i> , 2008 , 8, 320	4.8	50
323	Expression of thrombospondin-1 in pancreatic carcinoma: correlation with microvessel density. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2001 , 438, 116-20	5.1	50
322	Multinucleated giant cells in the implant bed of bone substitutes are foreign body giant cells-New insights into the material-mediated healing process. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 1105-1111	5.4	49
321	Barrier functions and paracellular integrity in human cell culture models of the proximal respiratory unit. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009 , 72, 339-49	5.7	49
320	Polyester vascular prostheses coated with a cyclodextrin polymer and activated with antibiotics: cytotoxicity and microbiological evaluation. <i>Acta Biomaterialia</i> , 2008 , 4, 1725-33	10.8	49
319	Potential lack of "standardized" processing techniques for production of allogeneic and xenogeneic bone blocks for application in humans. <i>Acta Biomaterialia</i> , 2014 , 10, 3557-62	10.8	48
318	Biological tolerance of different materials in bulk and nanoparticulate form in a rat model: sarcoma development by nanoparticles. <i>Journal of the Royal Society Interface</i> , 2006 , 3, 767-75	4.1	48
317	Vascular endothelial cadherin expression in lung specimens of patients with sepsis-induced acute respiratory distress syndrome and endothelial cell cultures. <i>Pathobiology</i> , 2013 , 80, 245-51	3.6	47
316	Sustained complete hematologic remission after administration of the tyrosine kinase inhibitor imatinib mesylate in a patient with refractory, secondary AML. <i>Blood</i> , 2003 , 101, 2960-2	2.2	47
315	Heterogeneous expression of cell adhesion molecules by endothelial cells in ARDS. <i>Journal of Pathology</i> , 2002 , 198, 270-5	9.4	47

314	Effects of cytokines on the expression of cell adhesion molecules by cultured human omental mesothelial cells. <i>Pathobiology</i> , 1995 , 63, 204-12	3.6	47
313	Influence of heat shock protein 70 and metallothionein induction by zinc-bis-(DL-hydrogenaspartate) on the release of inflammatory mediators in a porcine model of recurrent endotoxemia. <i>Biochemical Pharmacology</i> , 1996 , 52, 1201-10	6	47
312	Paradoxical effects of hypoxia-mimicking divalent cobalt ions in human endothelial cells in vitro. <i>Molecular and Cellular Biochemistry</i> , 2005 , 270, 157-66	4.2	46
311	Production of superoxide by human malignant melanoma cells. <i>Melanoma Research</i> , 1998 , 8, 381-7	3.3	46
310	The development of a tissue-engineered tracheobronchial epithelial model using a bilayered collagen-hyaluronate scaffold. <i>Biomaterials</i> , 2016 , 85, 111-27	15.6	44
309	Toward modulating the architecture of hydrogel scaffolds: curtains versus channels. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 1459-66	4.5	44
308	Interactions of silica nanoparticles with lung epithelial cells and the association to flotillins. <i>Archives of Toxicology</i> , 2013 , 87, 1053-65	5.8	43
307	Influence of scaffold pore size on collagen I development: A new in vitro evaluation perspective. <i>Journal of Bioactive and Compatible Polymers</i> , 2013 , 28, 16-32	2	43
306	Fine-tuning scaffolds for tissue regeneration: effects of formic acid processing on tissue reaction to silk fibroin. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010 , 4, 464-72	4.4	42
305	Human endothelial cell-based assay for endotoxin as sensitive as the conventional Limulus Amebocyte Lysate assay. <i>Biomaterials</i> , 2014 , 35, 3180-7	15.6	41
304	Fibronectin-mediated endothelialisation of chitosan porous matrices. <i>Biomaterials</i> , 2009 , 30, 5465-75	15.6	41
303	Migration assay for endothelial cells in multiwells. Application to studies on the effect of opioids. <i>Journal of Immunological Methods</i> , 1990 , 128, 235-9	2.5	41
302	Heterogeneity of biomaterial-induced multinucleated giant cells: Possible importance for the regeneration process?. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 413-8	5.4	41
301	Reduced expression of TLR4 is associated with the metastatic status of human colorectal cancer. <i>International Journal of Molecular Medicine</i> , 2007 , 20, 21-9	4.4	40
300	In vitro investigation of silica nanoparticle uptake into human endothelial cells under physiological cyclic stretch. <i>Particle and Fibre Toxicology</i> , 2014 , 11, 68	8.4	39
299	Impaired in vivo vasculogenic potential of endothelial progenitor cells in comparison to human umbilical vein endothelial cells in a spheroid-based implantation model. <i>Cell Proliferation</i> , 2009 , 42, 498-505	7.9	39
298	Porcine Dermis-Derived Collagen Membranes Induce Implantation Bed Vascularization Via Multinucleated Giant Cells: A Physiological Reaction?. <i>Journal of Oral Implantology</i> , 2015 , 41, e238-51	1.2	38
297	TRAP-Positive Multinucleated Giant Cells Are Foreign Body Giant Cells Rather Than Osteoclasts: Results From a Split-Mouth Study in Humans. <i>Journal of Oral Implantology</i> , 2015 , 41, e257-66	1.2	38

296	High-Temperature Sintering of Xenogenic Bone Substitutes Leads to Increased Multinucleated Giant Cell Formation: In Vivo and Preliminary Clinical Results. <i>Journal of Oral Implantology</i> , 2015 , 41, e212-22	1.2	38
295	Non-cross-linked collagen type I/III materials enhance cell proliferation: in vitro and in vivo evidence. <i>Journal of Applied Oral Science</i> , 2014 , 22, 29-37	3.3	38
294	Cyclooxygenases and prostaglandin E2 receptors in growth plate chondrocytes in vitro and in situ--prostaglandin E2 dependent proliferation of growth plate chondrocytes. <i>Arthritis Research and Therapy</i> , 2006 , 8, R78	5.7	38
293	In vivo release of non-neuronal acetylcholine from the human skin as measured by dermal microdialysis: effect of botulinum toxin. <i>British Journal of Pharmacology</i> , 2006 , 147, 183-7	8.6	38
292	The role of the microcirculation in multiple organ dysfunction syndrome (MODS): a review and perspective. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 1996 , 427, 461-76	5.1	38
291	Systemic kappa light chain deposition and amyloidosis in multiple myeloma: novel morphological observations. <i>Histopathology</i> , 1986 , 10, 1065-76	7.3	38
290	Histological and histomorphometrical analysis of a silica matrix embedded nanocrystalline hydroxyapatite bone substitute using the subcutaneous implantation model in Wistar rats. <i>Biomedical Materials (Bristol)</i> , 2010 , 5, 35005	3.5	37
289	Biological performance of cell-encapsulated methacrylated gellan gum-based hydrogels for nucleus pulposus regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 637-648	4.4	36
288	Use of the Cultex [®] Radial Flow System as an in vitro exposure method to assess acute pulmonary toxicity of fine dusts and nanoparticles with special focus on the intra- and inter-laboratory reproducibility. <i>Chemico-Biological Interactions</i> , 2013 , 206, 479-90	5	36
287	Glucocorticoids mediate reduction of epithelial acetylcholine content in the airways of rats and humans. <i>European Journal of Pharmacology</i> , 1998 , 349, 277-84	5.3	36
286	Light- and electron-microscopic studies on multinucleated giant cells in sarcoid granuloma: new aspects of asteroid and Schaumann bodies. <i>Ultrastructural Pathology</i> , 1988 , 12, 581-97	1.3	36
285	Addition of blood to a phylogenetic bone substitute leads to increased in vivo vascularization. <i>Biomedical Materials (Bristol)</i> , 2015 , 10, 055007	3.5	35
284	Er:YAG laser osteotomy: preliminary clinical and histological results of a new technique for contact-free bone surgery. <i>European Surgical Research</i> , 2009 , 42, 150-6	1.1	35
283	The non-neuronal cholinergic system in peripheral blood cells: effects of nicotinic and muscarinic receptor antagonists on phagocytosis, respiratory burst and migration. <i>Life Sciences</i> , 2007 , 80, 2361-4	6.8	35
282	Expression of fibronectin splice variants and oncofetal glycosylated fibronectin in the synovial membranes of patients with rheumatoid arthritis and osteoarthritis. <i>Rheumatology International</i> , 2004 , 24, 25-33	3.6	35
281	GM-CSF expression by human lung microvascular endothelial cells: in vitro and in vivo findings. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2002 , 283, L460-7	5.8	35
280	Apoptosis causes lumen formation during angiogenesis in vitro. <i>Microvascular Research</i> , 2002 , 64, 334-8	3.7	35
279	Small-sized granules of biphasic bone substitutes support fast implant bed vascularization. <i>Biomater</i> , 2015 , 5, e1056943		34

278	Implantation of silicon dioxide-based nanocrystalline hydroxyapatite and pure phase beta-tricalciumphosphate bone substitute granules in caprine muscle tissue does not induce new bone formation. <i>Head & Face Medicine</i> , 2013 , 9, 1	2.4	34
277	Cell communication in a coculture system consisting of outgrowth endothelial cells and primary osteoblasts. <i>BioMed Research International</i> , 2014 , 2014, 320123	3	34
276	A quantitative in vitro approach to study the intracellular fate of gold nanoparticles: from synthesis to cytotoxicity. <i>Nanotoxicology</i> , 2009 , 3, 296-306	5.3	34
275	The influence of the C1-inhibitor BERINERT and the protein-free haemodialysate ACTIHAEMYL20% on the evolution of the depth of scald burns in a porcine model. <i>Burns</i> , 1997 , 23, 473-7	2.3	34
274	Isolation and molecular characterization of brain microvascular endothelial cells from human brain tumors. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2002 , 38, 273-81	2.6	34
273	Endothelial cell cultures as a tool in biomaterial research. <i>Journal of Materials Science: Materials in Medicine</i> , 1999 , 10, 589-94	4.5	34
272	Fluid shear induced endothelial cell detachment from glass--influence of adhesion time and shear stress. <i>Medical Engineering and Physics</i> , 1994 , 16, 506-12	2.4	34
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