

Charles James Kirkpatrick

List of Publications by Year in Descending Order

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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.

421
papers

16,601
citations

69
h-index

106
g-index

449
ext. papers

18,179
ext. citations

5.2
avg. IF

6.39
L-index

#	Paper	IF	Citations
421	Covalent linkage of sulfated hyaluronan to the collagen scaffold Mucograft [®] enhances scaffold stability and reduces proinflammatory macrophage activation. <i>Bioactive Materials</i> , 2022 , 8, 420-434	16.7	5
420	Biocompatibility Testing 2021 , 423-453		0
419	Excellent histological results in terms of articular cartilage regeneration after spheroid-based autologous chondrocyte implantation (ACI). <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021 , 29, 417-421	5.5	11
418	Multinucleated giant cells within the in vivo implantation bed of a collagen-based biomaterial determine its degradation pattern. <i>Clinical Oral Investigations</i> , 2021 , 25, 859-873	4.2	3
417	Alkaline phosphatase dual-binding sites for collagen dictate cell migration and microvessel assembly in vitro. <i>Journal of Cellular Biochemistry</i> , 2021 , 122, 116-129	4.7	2
416	Cervical Cancer Screening: Comparison of Conventional Pap Smear Test, Liquid-Based Cytology, and Human Papillomavirus Testing as Stand-alone or Cotesting Strategies. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2021 , 30, 474-484	4	5
415	Improved detection of sentinel lymph node metastases allows reliable intraoperative identification of patients with extended axillary lymph node involvement in early breast cancer. <i>Clinical and Experimental Metastasis</i> , 2021 , 38, 61-72	4.7	1
414	Thermal treatment at 500°C significantly reduces the reaction to irregular tricalcium phosphate granules as foreign bodies: An in vivo study. <i>Acta Biomaterialia</i> , 2021 , 121, 621-636	10.8	4
413	Function and mutual interaction of BiP-, PERK-, and IRE1 β -dependent signalling pathways in vascular tumours. <i>Journal of Pathology</i> , 2020 , 251, 123-134	9.4	3
412	Characterization of the Cellular Reaction to a Collagen-Based Matrix: An In Vivo Histological and Histomorphometrical Analysis. <i>Materials</i> , 2020 , 13,	3.5	1
411	Modification of collagen-based sponges can induce an upshift of the early inflammatory response and a chronic inflammatory reaction led by M1 macrophages: an in vivo study. <i>Clinical Oral Investigations</i> , 2020 , 24, 3485-3500	4.2	3
410	Cholinergic signaling controls immune functions and promotes homeostasis. <i>International Immunopharmacology</i> , 2020 , 83, 106345	5.8	5
409	The Biomaterial-Induced Cellular Reaction Allows a Novel Classification System Regardless of the Biomaterials Origin. <i>Journal of Oral Implantology</i> , 2020 , 46, 190-207	1.2	7
408	Co-culture Model for Cutaneous Wound Healing to Assess a Porous Fiber-Based Drug Delivery System. <i>Tissue Engineering - Part C: Methods</i> , 2020 , 26, 475-484	2.9	5
407	Short-term hypoxia promotes vascularization in co-culture system consisting of primary human osteoblasts and outgrowth endothelial cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2020 , 108, 7-18	5.4	14
406	Biomimetic strategy towards gelatin coatings on PET. Effect of protocol on coating stability and cell-interactive properties. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 1258-1269	7.3	3
405	Multiwell three-dimensional systems enable in vivo screening of immune reactions to biomaterials: a new strategy toward translational biomaterial research. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 30, 61	4.5	1

404	Tissue expansion of lung bronchi due to tissue processing for histology - A comparative analysis of paraffin versus frozen sections in a pig model. <i>Pathology Research and Practice</i> , 2019 , 215, 152396	3.4	2
403	In Vitro Entero-Capillary Barrier Exhibits Altered Inflammatory and Exosomal Communication Pattern after Exposure to Silica Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	6
402	A low-speed centrifugation concept leads to cell accumulation and vascularization of solid platelet-rich fibrin: an experimental study in vivo. <i>Platelets</i> , 2019 , 30, 329-340	3.6	28
401	Biomaterial-induced multinucleated giant cells express proinflammatory signaling molecules: A histological study in humans. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 780-790	5.4	9
400	Sugar-based collagen membrane cross-linking increases barrier capacity of membranes. <i>Clinical Oral Investigations</i> , 2018 , 22, 1851-1863	4.2	19
399	Tissue response to five commercially available peritoneal adhesion barriers-A systematic histological evaluation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 598-609	3.5	4
398	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
397	Neutrophil-mediated enhancement of angiogenesis and osteogenesis in a novel triple cell co-culture model with endothelial cells and osteoblasts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e1221-e1236	4.4	15
396	Human Co- and Triple-Culture Model of the Alveolar-Capillary Barrier on a Basement Membrane Mimic. <i>Tissue Engineering - Part C: Methods</i> , 2018 , 24, 495-503	2.9	16
395	In vitro evaluation of a biomaterial-based anticancer drug delivery system as an alternative to conventional post-surgery bone cancer treatment. <i>Materials Science and Engineering C</i> , 2018 , 93, 115-124	8.3	7
394	Endothelialization and Anticoagulation Potential of Surface-Modified PET Intended for Vascular Applications. <i>Macromolecular Bioscience</i> , 2018 , 18, e1800125	5.5	18
393	A Proof of the Low Speed Centrifugation Concept in Rodents: New Perspectives for In Vivo Research. <i>Tissue Engineering - Part C: Methods</i> , 2018 , 24, 659-670	2.9	15
392	Implantation of a Bovine-Derived Collagen Membrane Leads to Changes in the Physiological Cellular Pattern of Wound Healing by the Induction of Multinucleated Giant Cells: An Adverse Reaction?. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018 , 6, 104	5.8	26
391	Injectable Bone Substitute Material on the Basis of β -TCP and Hyaluronan Achieves Complete Bone Regeneration While Undergoing Nearly Complete Degradation. <i>International Journal of Oral and Maxillofacial Implants</i> , 2018 , 33, 636-644	2.8	17
390	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
389	A responsive human triple-culture model of the air-blood barrier: incorporation of different macrophage phenotypes. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1285-1297	4.4	19
388	Expansion of the peri-implant attached gingiva with a three-dimensional collagen matrix in head and neck cancer patients-results from a prospective clinical and histological study. <i>Clinical Oral Investigations</i> , 2017 , 21, 1103-1111	4.2	17
387	TLR4 stimulation by LPS enhances angiogenesis in a co-culture system consisting of primary human osteoblasts and outgrowth endothelial cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1779-1791	4.4	19

386	Basement Membrane Mimics of Biofunctionalized Nanofibers for a Bipolar-Cultured Human Primary Alveolar-Capillary Barrier Model. <i>Biomacromolecules</i> , 2017 , 18, 719-727	6.9	19
385	Identification of neuronal and angiogenic growth factors in an in vitro blood-brain barrier model system: Relevance in barrier integrity and tight junction formation and complexity. <i>Microvascular Research</i> , 2017 , 111, 1-11	3.7	10
384	Non-neuronal acetylcholine involved in reproduction in mammals and honeybees. <i>Journal of Neurochemistry</i> , 2017 , 142 Suppl 2, 144-150	6	19
383	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
382	Pectus excavatum: First ultrastructural findings of a potential ciliopathy. <i>Ultrastructural Pathology</i> , 2017 , 41, 120-121	1.3	
381	Brush or scratch? Which biopsy is superior for the ultrastructural diagnosis of primary ciliary dyskinesia - A retrospective analysis. <i>Ultrastructural Pathology</i> , 2017 , 41, 121-122	1.3	
380	Gold nanoparticle interactions with endothelial cells cultured under physiological conditions. <i>Biomaterials Science</i> , 2017 , 5, 707-717	7.4	16
379	Human CD8 T Cells Damage Noninfected Epithelial Cells during Influenza Virus Infection In Vitro. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017 , 57, 536-546	5.7	26
378	Macrophage type modulates osteogenic differentiation of adipose tissue MSCs. <i>Cell and Tissue Research</i> , 2017 , 369, 273-286	4.2	92
377	Expression of CD68 positive macrophages in the use of different barrier materials to prevent peritoneal adhesions-an animal study. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 15	4.5	15
376	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
375	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
374	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
373	An in vitro and in vivo study of peptide-functionalized nanoparticles for brain targeting: The importance of selective blood-brain barrier uptake. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 1289-1300	6	12
372	Detection of Non-neuronal Acetylcholine. <i>NeuroMethods</i> , 2016 , 205-220	0.4	1
371	Microstructure, mechanical characteristics and cell compatibility of β -tricalcium phosphate reinforced with biodegradable Fe-Mg metal phase. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 53, 434-444	4.1	14
370	Injectable Bone Substitute Based on β -TCP Combined With a Hyaluronan-Containing Hydrogel Contributes to Regeneration of a Critical Bone Size Defect Towards Restitutio ad Integrum. <i>Journal of Oral Implantology</i> , 2016 , 42, 127-37	1.2	17
369	Monocyte preseeding leads to an increased implant bed vascularization of biphasic calcium phosphate bone substitutes via vessel maturation. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 2928-2935	5.4	25

368	Influenza virus damages the alveolar barrier by disrupting epithelial cell tight junctions. <i>European Respiratory Journal</i> , 2016 , 47, 954-66	13.6	102
367	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
366	Foreign Body Giant Cell-Related Encapsulation of a Synthetic Material Three Years After Augmentation. <i>Journal of Oral Implantology</i> , 2016 , 42, 273-7	1.2	16
365	Bilayered, non-cross-linked collagen matrix for regeneration of facial defects after skin cancer removal: a new perspective for biomaterial-based tissue reconstruction. <i>Journal of Cell Communication and Signaling</i> , 2016 , 10, 3-15	5.2	14
364	Detection of cellular senescence within human invasive breast carcinomas distinguishes different breast tumor subtypes. <i>Oncotarget</i> , 2016 , 7, 74846-74859	3.3	13
363	Honeybees Produce Millimolar Concentrations of Non-Neuronal Acetylcholine for Breeding: Possible Adverse Effects of Neonicotinoids. <i>PLoS ONE</i> , 2016 , 11, e0156886	3.7	23
362	The role of the intestinal microvasculature in inflammatory bowel disease: studies with a modified Caco-2 model including endothelial cells resembling the intestinal barrier in vitro. <i>International Journal of Nanomedicine</i> , 2016 , 11, 6353-6364	7.3	16
361	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
360	Impact of polymer-modified gold nanoparticles on brain endothelial cells: exclusion of endoplasmic reticulum stress as a potential risk factor. <i>Nanotoxicology</i> , 2016 , 10, 1341-50	5.3	19
359	"Race for the Surface": Eukaryotic Cells Can Win. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22025-31	3.5	79
358	Effect of LIF-withdrawal on acetylcholine synthesis in the embryonic stem cell line CGR8 is not mediated by STAT3, PI3Ks or cAMP/PKA pathways. <i>International Immunopharmacology</i> , 2015 , 29, 115-8	5.8	0
357	Small-sized granules of biphasic bone substitutes support fast implant bed vascularization. <i>Biomatter</i> , 2015 , 5, e1056943		34
356	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
355	Histopathological features predict metastatic potential in locally advanced colon carcinomas. <i>BMC Cancer</i> , 2015 , 15, 14	4.8	14
354	Cell type- and tumor zone-specific expression of pVEGFR-1 and its ligands influence colon cancer metastasis. <i>BMC Cancer</i> , 2015 , 15, 104	4.8	9
353	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
352	Poly(EGlutamic Acid) as an Exogenous Promoter of Chondrogenic Differentiation of Human Mesenchymal Stem/Stromal Cells. <i>Tissue Engineering - Part A</i> , 2015 , 21, 1869-85	3.9	9
351	Endoplasmic reticulum-resident chaperones modulate the inflammatory and angiogenic responses of endothelial cells. <i>British Journal of Dermatology</i> , 2015 , 173, 416-27	4	9

350	High resolution X-ray tomography Three-dimensional characterisation of cell scaffold constructs for cartilage tissue engineering. <i>Materials Science and Technology</i> , 2015 , 31, 167-173	1.5	11
349	Transmission of angioimmunoblastic T-cell lymphoma by bone marrow transplant. <i>Leukemia and Lymphoma</i> , 2015 , 56, 1164-7	1.9	
348	The relevance of cell type- and tumor zone-specific VEGFR-2 activation in locally advanced colon cancer. <i>Journal of Experimental and Clinical Cancer Research</i> , 2015 , 34, 42	12.8	10
347	The pre-vascularisation of a collagen-chondroitin sulphate scaffold using human amniotic fluid-derived stem cells to enhance and stabilise endothelial cell-mediated vessel formation. <i>Acta Biomaterialia</i> , 2015 , 26, 263-73	10.8	23
346	Development of a Bronchial Wall Model: Triple Culture on a Decellularized Porcine Trachea. <i>Tissue Engineering - Part C: Methods</i> , 2015 , 21, 909-21	2.9	12
345	pH-dependent hydrolysis of acetylcholine: Consequences for non-neuronal acetylcholine. <i>International Immunopharmacology</i> , 2015 , 29, 27-30	5.8	9
344	Murine embryonic stem cell line CGR8 expresses all subtypes of muscarinic receptors and multiple nicotinic receptor subunits: Down-regulation of α - and β -subunits during early differentiation. <i>International Immunopharmacology</i> , 2015 , 29, 110-4	5.8	2
343	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
342	Enzyme-responsive nanocomposites for wound infection prophylaxis in burn management: in vitro evaluation of their compatibility with healing processes. <i>International Journal of Nanomedicine</i> , 2015 , 10, 4111-24	7.3	10
341	Pulmonary surfactant augments cytotoxicity of silica nanoparticles: Studies on an in vitro air-blood barrier model. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 517-28	3	30
340	Modelling the regenerative niche: a major challenge in biomaterials research. <i>International Journal of Energy Production and Management</i> , 2015 , 2, 267-72	5.3	14
339	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
338	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
337	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
336	Porcine Dermis and Pericardium-Based, Non-Cross-Linked Materials Induce Multinucleated Giant Cells After Their In Vivo Implantation: A Physiological Reaction?. <i>Journal of Oral Implantology</i> , 2015 , 41, e267-81	1.2	27
335	A virtual microscope for academic medical education: the pate project. <i>Interactive Journal of Medical Research</i> , 2015 , 4, e11	2.1	7
334	Engineering a microvascular capillary bed in a tissue-like collagen construct. <i>Tissue Engineering - Part A</i> , 2014 , 20, 2656-65	3.9	19
333	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

332	Biofunctionalized microfiber-assisted formation of intrinsic three-dimensional capillary-like structures. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1858-69	3.9	24
331	Expression of CD34 and maspin in ameloblastoma from a West African subpopulation. <i>Tumor Biology</i> , 2014 , 35, 7727-31	2.9	1
330	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
329	Developing cellular systems in vitro to simulate regeneration. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1355-79	3.9	8
328	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
327	Endothelial cells stimulate osteogenic differentiation of mesenchymal stem cells on calcium phosphate scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014 , 8, 831-40	4.4	22
326	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
325	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
324	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
323	Cell communication in a coculture system consisting of outgrowth endothelial cells and primary osteoblasts. <i>BioMed Research International</i> , 2014 , 2014, 320123	3	34
322	CD15 - a new marker of pathological villous immaturity of the term placenta. <i>Placenta</i> , 2014 , 35, 925-31	3.4	19
321	Mild heat stress enhances angiogenesis in a co-culture system consisting of primary human osteoblasts and outgrowth endothelial cells. <i>Tissue Engineering - Part C: Methods</i> , 2014 , 20, 328-39	2.9	24
320	A novel blood-brain barrier co-culture system for drug targeting of Alzheimer® disease: establishment by using acitretin as a model drug. <i>PLoS ONE</i> , 2014 , 9, e91003	3.7	34
319	Ovine carotid artery-derived cells as an optimized supportive cell layer in 2-D capillary network assays. <i>PLoS ONE</i> , 2014 , 9, e91664	3.7	
318	Nanocrystalline hydroxyapatite bone substitute leads to sufficient bone tissue formation already after 3 months: histological and histomorphometrical analysis 3 and 6 months following human sinus cavity augmentation. <i>Clinical Implant Dentistry and Related Research</i> , 2013 , 15, 883-92	3.9	32
317	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
316	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
315	Neuroendocrine tumour, mucinous adenocarcinoma and signet-ring cell carcinoma of the appendix: three cases and review of literature. <i>Indian Journal of Surgery</i> , 2013 , 75, 299-302	0.3	10

314	Bioresponsive poly(amidoamine)s designed for intracellular protein delivery. <i>Acta Biomaterialia</i> , 2013 , 9, 6062-74	10.8	20
313	The role of oxidative stress in pro-inflammatory activation of human endothelial cells on Ti6Al4V alloy. <i>Biomaterials</i> , 2013 , 34, 8075-85	15.6	31
312	Mesenchymal stem cell proliferation and differentiation on load-bearing trabecular Nitinol scaffolds. <i>Acta Biomaterialia</i> , 2013 , 9, 8440-8	10.8	27
311	Nanoscale chemical interaction enhances the physical properties of bioglass composites. <i>ACS Nano</i> , 2013 , 7, 8469-83	16.7	27
310	Phenotypic redifferentiation and cell cluster formation of cultured human articular chondrocytes in a three-dimensional oriented gelatin scaffold in the presence of PGE2--first results of a pilot study. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 2374-82	5.4	13
309	Influence of organophosphate poisoning on human dendritic cells. <i>Chemico-Biological Interactions</i> , 2013 , 206, 472-8	5	18
308	Flotillin-involved uptake of silica nanoparticles and responses of an alveolar-capillary barrier in vitro. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 84, 275-87	5.7	24
307	Endothelialization of chitosan porous conduits via immobilization of a recombinant fibronectin fragment (rhFNIII7-10). <i>Acta Biomaterialia</i> , 2013 , 9, 5643-52	10.8	14
306	Upregulated acetylcholine synthesis during early differentiation in the embryonic stem cell line CGR8. <i>Neuroscience Letters</i> , 2013 , 547, 32-6	3.3	11
305	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
304	Design and physicochemical characterization of poly(amidoamine) nanoparticles and the toxicological evaluation in human endothelial cells: applications to peptide delivery to the brain. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013 , 24, 957-71	3.5	3
303	Uptake of poly(2-hydroxypropylmethacrylamide)-coated gold nanoparticles in microvascular endothelial cells and transport across the blood-brain barrier. <i>Biomaterials Science</i> , 2013 , 1, 824-833	7.4	30
302	Improving cytocompatibility of Co28Cr6Mo by TiO2 coating: gene expression study in human endothelial cells. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20130428	4.1	15
301	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
300	Development and in vitro evaluation of antigen-loaded poly(amidoamine) nanoparticles for respiratory epithelium applications. <i>ChemMedChem</i> , 2013 , 8, 1787-94	3.7	2
299	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
298	VEGF-B expression in colorectal carcinomas and its relevance for tumor progression. <i>Histology and Histopathology</i> , 2013 , 28, 647-53	1.4	8
297	The Role of Oxidative Stress in the Response of Endothelial Cells to Metals. <i>Springer Series in Biomaterials Science and Engineering</i> , 2013 , 65-88	0.6	1

296	Imaging of articular cartilage--data matching using X-ray tomography, SEM, FIB slicing and conventional histology. <i>Micron</i> , 2012 , 43, 1060-7	2.3	27
295	Ni-Cr based dental alloys; Ni release, corrosion and biological evaluation. <i>Materials Science and Engineering C</i> , 2012 , 32, 1452-60	8.3	29
294	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
293	Blockade of nicotinic and muscarinic receptors facilitates spontaneous migration of human peripheral granulocytes: failure in cystic fibrosis. <i>Life Sciences</i> , 2012 , 91, 1119-21	6.8	3
292	Release of acetylcholine from murine embryonic stem cells: effect of nicotinic and muscarinic receptors and blockade of organic cation transporter. <i>Life Sciences</i> , 2012 , 91, 973-6	6.8	10
291	Subcellular distribution of choline acetyltransferase by immunogold electron microscopy in non-neuronal cells: placenta, airways and murine embryonic stem cells. <i>Life Sciences</i> , 2012 , 91, 977-80	6.8	9
290	Sonic Hedgehog-mediated synergistic effects guiding angiogenesis and osteogenesis. <i>Vitamins and Hormones</i> , 2012 , 88, 491-506	2.5	22
289	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
288	Activation of muscarinic receptors by non-neuronal acetylcholine. <i>Handbook of Experimental Pharmacology</i> , 2012 , 469-91	3.2	16
287	Mesothelial morphology and organisation after peritoneal treatment with solid and liquid adhesion barriers--a scanning electron microscopical study. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 1931-9	4.5	12
286	Current strategies and future perspectives for intraperitoneal adhesion prevention. <i>Journal of Gastrointestinal Surgery</i> , 2012 , 16, 1256-74	3.3	92
285	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
284	Pectus excavatum: history, hypotheses and treatment options. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2012 , 14, 801-6	1.8	101
283	Pectus carinatum--first ultrastructural findings of a potential metabolic lesion. <i>European Journal of Cardio-thoracic Surgery</i> , 2012 , 41, 705-6	3	5
282	Implanted neonatal human dermal fibroblasts influence the recruitment of endothelial cells in mice. <i>Biomatter</i> , 2012 , 2, 43-52		13
281	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</i> , 2011 , 2, 015007	3.5	102
280	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
279	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

278	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
277	Human endothelial and osteoblast co-cultures on 3D biomaterials. <i>Methods in Molecular Biology</i> , 2011 , 695, 229-41	1.4	13
276	Co-culture systems for vascularization--learning from nature. <i>Advanced Drug Delivery Reviews</i> , 2011 , 63, 291-9	18.5	158
275	JAK2-V617F-mutated myeloproliferative neoplasms reveal different allele burden within hematopoietic cell lineages: a microdissection study of bone marrow trephine biopsies. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2011 , 459, 521-7	5.1	2
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