

Alexander Marcus Seifalian

List of Publications by Citations

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499
papers

24,738
citations

74
h-index

134
g-index

528
ext. papers

27,388
ext. citations

5.5
avg, IF

7.2
L-index

#	Paper	IF	Citations
499	Nanosilver as a new generation of nanoparticle in biomedical applications. <i>Trends in Biotechnology</i> , 2010 , 28, 580-8	15.1	1019
498	Liposomes and nanoparticles: nanosized vehicles for drug delivery in cancer. <i>Trends in Pharmacological Sciences</i> , 2009 , 30, 592-9	13.2	945
497	Biological applications of quantum dots. <i>Biomaterials</i> , 2007 , 28, 4717-32	15.6	843
496	Properties of the amniotic membrane for potential use in tissue engineering. <i>European Cells and Materials</i> , 2008 , 15, 88-99	4.3	482
495	Ischemia-reperfusion injury of the intestine and protective strategies against injury. <i>Digestive Diseases and Sciences</i> , 2004 , 49, 1359-77	4	478
494	Toxicology and clinical potential of nanoparticles. <i>Nano Today</i> , 2011 , 6, 585-607	17.9	462
493	Current status of prosthetic bypass grafts: a review. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005 , 74, 570-81	3.5	408
492	Polyhedral oligomeric silsesquioxane nanocomposites: the next generation material for biomedical applications. <i>Accounts of Chemical Research</i> , 2005 , 38, 879-84	24.3	368
491	Tracheobronchial transplantation with a stem-cell-seeded bioartificial nanocomposite: a proof-of-concept study. <i>Lancet, The</i> , 2011 , 378, 1997-2004	40	353
490	Stem-cell-based, tissue engineered tracheal replacement in a child: a 2-year follow-up study. <i>Lancet, The</i> , 2012 , 380, 994-1000	40	352
489	Conductive Polymers: Opportunities and Challenges in Biomedical Applications. <i>Chemical Reviews</i> , 2018 , 118, 6766-6843	68.1	320
488	The roles of tissue engineering and vascularisation in the development of micro-vascular networks: a review. <i>Biomaterials</i> , 2005 , 26, 1857-75	15.6	306
487	The mechanical behavior of vascular grafts: a review. <i>Journal of Biomaterials Applications</i> , 2001 , 15, 241-289		296
486	Biofunctionalization of biomaterials for accelerated in situ endothelialization: a review. <i>Biomacromolecules</i> , 2008 , 9, 2969-79	6.9	292
485	Remote ischemic preconditioning: a novel protective method from ischemia reperfusion injury--a review. <i>Journal of Surgical Research</i> , 2008 , 150, 304-30	2.5	265
484	Liver ischemia/reperfusion injury: processes in inflammatory networks--a review. <i>Liver Transplantation</i> , 2010 , 16, 1016-32	4.5	255
483	A nanocage for nanomedicine: polyhedral oligomeric silsesquioxane (POSS). <i>Macromolecular Rapid Communications</i> , 2011 , 32, 1032-46	4.8	227

482	The mechanical properties of infrainguinal vascular bypass grafts: their role in influencing patency. <i>European Journal of Vascular and Endovascular Surgery</i> , 2006 , 31, 627-36	2.3	215
481	Skin regeneration scaffolds: a multimodal bottom-up approach. <i>Trends in Biotechnology</i> , 2012 , 30, 638-48	5.1	197
480	Improving the clinical patency of prosthetic vascular and coronary bypass grafts: the role of seeding and tissue engineering. <i>Artificial Organs</i> , 2002 , 26, 307-20	2.6	180
479	Compliance properties of conduits used in vascular reconstruction. <i>British Journal of Surgery</i> , 2000 , 87, 1516-24	5.3	180
478	A new era of cancer treatment: carbon nanotubes as drug delivery tools. <i>International Journal of Nanomedicine</i> , 2011 , 6, 2963-79	7.3	179
477	The degradative resistance of polyhedral oligomeric silsesquioxane nanocore integrated polyurethanes: an in vitro study. <i>Biomaterials</i> , 2006 , 27, 1971-9	15.6	167
476	The contemporary role of antioxidant therapy in attenuating liver ischemia-reperfusion injury: a review. <i>Liver Transplantation</i> , 2005 , 11, 1031-47	4.5	167
475	Exosomes as nano-theranostic delivery platforms for gene therapy. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 357-67	18.5	166
474	The antithrombogenic potential of a polyhedral oligomeric silsesquioxane (POSS) nanocomposite. <i>Biomacromolecules</i> , 2006 , 7, 215-23	6.9	166
473	A rat decellularized small bowel scaffold that preserves villus-crypt architecture for intestinal regeneration. <i>Biomaterials</i> , 2012 , 33, 3401-10	15.6	163
472	Biomaterials and scaffold design: key to tissue-engineering cartilage. <i>Biotechnology and Applied Biochemistry</i> , 2007 , 46, 73-84	2.8	162
471	Polymeric heart valves: new materials, emerging hopes. <i>Trends in Biotechnology</i> , 2009 , 27, 359-67	15.1	157
470	Immunomodulatory effect of a decellularized skeletal muscle scaffold in a discordant xenotransplantation model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 14360-5	11.5	155
469	Topical haemostatic agents. <i>British Journal of Surgery</i> , 2008 , 95, 1197-225	5.3	152
468	Impairment of hepatic microcirculation in fatty liver. <i>Microcirculation</i> , 2003 , 10, 447-56	2.9	147
467	Advancing cartilage tissue engineering: the application of stem cell technology. <i>Current Opinion in Biotechnology</i> , 2005 , 16, 503-9	11.4	139
466	Oxygen-Generating Biomaterials: A New, Viable Paradigm for Tissue Engineering?. <i>Trends in Biotechnology</i> , 2016 , 34, 1010-1021	15.1	134
465	Nitric oxide: a guardian for vascular grafts?. <i>Chemical Reviews</i> , 2011 , 111, 5742-67	68.1	134

464	Anticoagulant and antiplatelet agents: their clinical and device application(s) together with usages to engineer surfaces. <i>Biomacromolecules</i> , 2004 , 5, 798-813	6.9	133
463	Addressing thrombogenicity in vascular graft construction. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 82, 100-8	3.5	131
462	The effect of graded steatosis on flow in the hepatic parenchymal microcirculation. <i>Transplantation</i> , 1999 , 68, 780-4	1.8	129
461	Quantum dots and their potential biomedical applications in photosensitization for photodynamic therapy. <i>Nanomedicine</i> , 2009 , 4, 353-63	5.6	126
460	A review of the carotid and femoral intima-media thickness as an indicator of the presence of peripheral vascular disease and cardiovascular risk factors. <i>Cardiovascular Research</i> , 2002 , 54, 528-38	9.9	125
459	Fluorescence nanoparticles "quantum dots" as drug delivery system and their toxicity: a review. <i>Journal of Drug Targeting</i> , 2011 , 19, 475-86	5.4	123
458	Nitric oxide donors for cardiovascular implant applications. <i>Small</i> , 2013 , 9, 22-35	11	122
457	In vivo biostability of a poly(carbonate-urea)urethane graft. <i>Biomaterials</i> , 2003 , 24, 2549-57	15.6	122
456	A novel nanocomposite polymer for development of synthetic heart valve leaflets. <i>Acta Biomaterialia</i> , 2009 , 5, 2409-17	10.8	121
455	Modern surgical management of peripheral nerve gap. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2010 , 63, 1941-8	1.7	118
454	Achieving the ideal properties for vascular bypass grafts using a tissue engineered approach: a review. <i>Medical and Biological Engineering and Computing</i> , 2007 , 45, 327-36	3.1	111
453	New prostheses for use in bypass grafts with special emphasis on polyurethanes. <i>Vascular</i> , 2002 , 10, 191-7		110
452	Carbon nanotubes leading the way forward in new generation 3D tissue engineering. <i>Biotechnology Advances</i> , 2014 , 32, 1000-14	17.8	109
451	In vivo demonstration of impaired microcirculation in steatotic human liver grafts. <i>Liver Transplantation</i> , 1998 , 4, 71-7		109
450	Development of a hybrid cardiovascular graft using a tissue engineering approach. <i>FASEB Journal</i> , 2002 , 16, 791-6	0.9	109
449	Biocompatibility and nanostructured materials: applications in nanomedicine. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2017 , 45, 833-842	6.1	106
448	The application of exosomes as a nanoscale cancer vaccine. <i>International Journal of Nanomedicine</i> , 2010 , 5, 889-900	7.3	101
447	Protection of the liver by ischemic preconditioning: a review of mechanisms and clinical applications. <i>Digestive Surgery</i> , 2003 , 20, 383-96	2.5	100

446	Protocols and mechanisms for remote ischemic preconditioning: a novel method for reducing ischemia reperfusion injury. <i>Transplantation</i> , 2007 , 84, 445-58	1.8	99
445	Tissue engineering of blood vessels. <i>British Journal of Surgery</i> , 2006 , 93, 282-90	5.3	97
444	Semiconductor quantum dots as fluorescent probes for in vitro and in vivo bio-molecular and cellular imaging. <i>Nano Reviews</i> , 2010 , 1,		96
443	The role of the insulin-like growth factor system in colorectal cancer: review of current knowledge. <i>International Journal of Colorectal Disease</i> , 2005 , 20, 203-20	3	95
442	Quantum dots and carbon nanotubes in oncology: a review on emerging theranostic applications in nanomedicine. <i>Nanomedicine</i> , 2011 , 6, 1101-14	5.6	93
441	Advances in regenerative therapies for spinal cord injury: a biomaterials approach. <i>Neural Regeneration Research</i> , 2015 , 10, 726-42	4.5	93
440	Adipose-derived stem cells for clinical applications: a review. <i>Cell Proliferation</i> , 2011 , 44, 86-98	7.9	89
439	Tissue engineering of vascular bypass grafts: role of endothelial cell extraction. <i>European Journal of Vascular and Endovascular Surgery</i> , 2001 , 21, 193-201	2.3	89
438	The use of animal models in developing the discipline of cardiovascular tissue engineering: a review. <i>Biomaterials</i> , 2004 , 25, 1627-37	15.6	87
437	Remote ischaemic preconditioning of the hind limb reduces experimental liver warm ischaemia-reperfusion injury. <i>British Journal of Surgery</i> , 2006 , 93, 762-8	5.3	84
436	Silsesquioxane nanocomposites as tissue implants. <i>Plastic and Reconstructive Surgery</i> , 2007 , 119, 1653-1662	6.2	84
435	Role of stem cells in cancer therapy and cancer stem cells: a review. <i>Cancer Cell International</i> , 2007 , 7, 9	6.4	83
434	Nerve conduits for peripheral nerve surgery. <i>Plastic and Reconstructive Surgery</i> , 2014 , 133, 1420-1430	2.7	82
433	Interactions between endothelial cells and a poly(carbonate-silsesquioxane-bridge-urea)urethane. <i>Biomaterials</i> , 2005 , 26, 6271-9	15.6	82
432	Will Nanotechnology Bring New Hope for Gene Delivery?. <i>Trends in Biotechnology</i> , 2017 , 35, 434-451	15.1	80
431	Cardiovascular tissue engineering: state of the art. <i>Pathologie Et Biologie</i> , 2005 , 53, 599-612		79
430	Shear-stress preconditioning and tissue-engineering-based paradigms for generating arterial substitutes. <i>Biotechnology and Applied Biochemistry</i> , 2004 , 39, 151-7	2.8	78
429	Small calibre polyhedral oligomeric silsesquioxane nanocomposite cardiovascular grafts: influence of porosity on the structure, haemocompatibility and mechanical properties. <i>Acta Biomaterialia</i> , 2011 , 7, 3857-67	10.8	76

428	Current developments and future prospects for heart valve replacement therapy. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 88, 290-303	3.5	76
427	Polyhedral oligomeric silsesquioxane-polyurethane nanocomposite microvessels for an artificial capillary bed. <i>Biomaterials</i> , 2006 , 27, 4618-26	15.6	76
426	The anti-calcification potential of a silsesquioxane nanocomposite polymer under in vitro conditions: potential material for synthetic leaflet heart valve. <i>Acta Biomaterialia</i> , 2010 , 6, 4249-60	10.8	74
425	Comparison of laser Doppler perfusion imaging, laser Doppler flowmetry, and thermographic imaging for assessment of blood flow in human skin. <i>European Journal of Vascular Surgery</i> , 1994 , 8, 65-9		74
424	Cellular engineering of vascular bypass grafts: role of chemical coatings for enhancing endothelial cell attachment. <i>Medical and Biological Engineering and Computing</i> , 2001 , 39, 609-18	3.1	73
423	Intima-media thickness of elastic and muscular arteries of young women with polycystic ovaries. <i>Atherosclerosis</i> , 2004 , 175, 353-9	3.1	72
422	Control of stem cell fate by engineering their micro and nanoenvironment. <i>World Journal of Stem Cells</i> , 2015 , 7, 37-50	5.6	72
421	Osteogenic potential of stem cells-seeded bioactive nanocomposite scaffolds: A comparative study between human mesenchymal stem cells derived from bone, umbilical cord Wharton's jelly, and adipose tissue. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 61-72	3.5	71
420	Tissue-engineered heart valve: future of cardiac surgery. <i>World Journal of Surgery</i> , 2012 , 36, 1581-91	3.3	71
419	Surface modification of biomaterials: a quest for blood compatibility. <i>International Journal of Biomaterials</i> , 2012 , 2012, 707863	3.2	71
418	The effect of short-term treatment with simvastatin on renal function in patients with peripheral arterial disease. <i>Angiology</i> , 2004 , 55, 53-62	2.1	71
417	Apoptosis and colorectal cancer: implications for therapy. <i>Trends in Molecular Medicine</i> , 2009 , 15, 225-33	11.5	70
416	The regenerative role of adipose-derived stem cells (ADSC) in plastic and reconstructive surgery. <i>International Wound Journal</i> , 2017 , 14, 112-124	2.6	69
415	Chitosan-Intercalated Montmorillonite/Poly(vinyl alcohol) Nanofibers as a Platform to Guide Neuronlike Differentiation of Human Dental Pulp Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11392-11404	9.5	69
414	Stem cell tracking using iron oxide nanoparticles. <i>International Journal of Nanomedicine</i> , 2014 , 9, 1641-53	7.3	68
413	Tissue engineering: revolution and challenge in auricular cartilage reconstruction. <i>Plastic and Reconstructive Surgery</i> , 2012 , 129, 1123-1137	2.7	68
412	Improving the patency of vascular bypass grafts: the role of suture materials and surgical techniques on reducing anastomotic compliance mismatch. <i>European Journal of Vascular and Endovascular Surgery</i> , 2003 , 25, 287-95	2.3	68
411	Manufacturing and hydrodynamic assessment of a novel aortic valve made of a new nanocomposite polymer. <i>Journal of Biomechanics</i> , 2012 , 45, 1205-11	2.9	67

410	In vitro stability of a novel compliant poly(carbonate-urea)urethane to oxidative and hydrolytic stress. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 59, 207-18		66
409	Silk fibroin/amniotic membrane 3D bi-layered artificial skin. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 035003		66
408	The endothelialization of polyhedral oligomeric silsesquioxane nanocomposites: an in vitro study. <i>Cell Biochemistry and Biophysics</i> , 2006 , 45, 129-36	3.2	65
407	Trachea transplantation: from laboratory to patient. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 357-67	4.4	64
406	Clinical potential of quantum dots. <i>Journal of Biomedicine and Biotechnology</i> , 2007 , 2007, 76087		64
405	Nanocomposite containing bioactive peptides promote endothelialisation by circulating progenitor cells: an in vitro evaluation. <i>European Journal of Vascular and Endovascular Surgery</i> , 2006 , 32, 76-83	2.3	64
404	Evolution of covered stents in the contemporary era: clinical application, materials and manufacturing strategies using nanotechnology. <i>Biotechnology Advances</i> , 2013 , 31, 524-42	17.8	63
403	Oral microbial biofilms: an update. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2019 , 38, 2005-2019	5.3	62
402	Exosomes as immunotheranostic nanoparticles. <i>Clinical Therapeutics</i> , 2014 , 36, 820-9	3.5	62
401	The early effect of lipid-lowering treatment on carotid and femoral intima media thickness (IMT). <i>European Journal of Vascular and Endovascular Surgery</i> , 2002 , 23, 358-64	2.3	62
400	Novel Electrohydrodynamic Printing of Nanocomposite Biopolymer Scaffolds. <i>Journal of Bioactive and Compatible Polymers</i> , 2007 , 22, 265-280	2	61
399	Advancing vascular tissue engineering: the role of stem cell technology. <i>Trends in Biotechnology</i> , 2005 , 23, 461-7	15.1	61
398	An assessment of covalent grafting of RGD peptides to the surface of a compliant poly(carbonate-urea)urethane vascular conduit versus conventional biological coatings: its role in enhancing cellular retention. <i>Tissue Engineering</i> , 2002 , 8, 673-80		61
397	Impaired carotid viscoelastic properties in women with polycystic ovaries. <i>Circulation</i> , 2002 , 106, 81-5	16.7	61
396	The nitric oxide pathway--evidence and mechanisms for protection against liver ischaemia reperfusion injury. <i>Liver International</i> , 2012 , 32, 531-43	7.9	60
395	Current trends in the application of nanoparticles in drug delivery. <i>Current Medicinal Chemistry</i> , 2011 , 18, 1067-78	4.3	60
394	Arterial elastic properties and cardiovascular risk/event. <i>European Journal of Vascular and Endovascular Surgery</i> , 2002 , 24, 383-97	2.3	60
393	In vivo femoropopliteal arterial wall compliance in subjects with and without lower limb vascular disease. <i>Journal of Vascular Surgery</i> , 1999 , 30, 936-45	3.5	60

392	Personalized development of human organs using 3D printing technology. <i>Medical Hypotheses</i> , 2016 , 87, 30-3	3.8	58
391	Cardiovascular application of polyhedral oligomeric silsesquioxane nanomaterials: a glimpse into prospective horizons. <i>International Journal of Nanomedicine</i> , 2011 , 6, 775-86	7.3	57
390	Experimental study of liver dysfunction evaluated by direct indocyanine green clearance using near infrared spectroscopy. <i>British Journal of Surgery</i> , 1999 , 86, 1005-11	5.3	57
389	The performance of a small-calibre graft for vascular reconstructions in a senescent sheep model. <i>Biomaterials</i> , 2014 , 35, 9033-40	15.6	56
388	Stem cells and cancer: an overview. <i>Stem Cell Reviews and Reports</i> , 2007 , 3, 249-55	6.4	56
387	Electroconductive polyurethane/graphene nanocomposite for biomedical applications. <i>Composites Part B: Engineering</i> , 2019 , 168, 421-431	10	55
386	Toxicology of chemically modified graphene-based materials for medical application. <i>Archives of Toxicology</i> , 2014 , 88, 1987-2012	5.8	55
385	Recent advances in artificial nerve conduit design: strategies for the delivery of luminal fillers. <i>Journal of Controlled Release</i> , 2011 , 156, 2-10	11.7	55
384	Optimization of chondrocyte isolation and characterization for large-scale cartilage tissue engineering. <i>Journal of Surgical Research</i> , 2013 , 181, 41-8	2.5	54
383	Advances in peripheral nervous system regenerative therapeutic strategies: A biomaterials approach. <i>Materials Science and Engineering C</i> , 2016 , 65, 425-32	8.3	54
382	Endometrial stem cells in regenerative medicine. <i>Journal of Biological Engineering</i> , 2014 , 8, 20	6.3	53
381	Chemical group-dependent plasma polymerisation preferentially directs adipose stem cell differentiation towards osteogenic or chondrogenic lineages. <i>Acta Biomaterialia</i> , 2017 , 50, 450-461	10.8	52
380	Development of a new lacrimal drainage conduit using POSS nanocomposite. <i>Biotechnology and Applied Biochemistry</i> , 2011 , 58, 363-70	2.8	52
379	Fluorescence lifetime imaging and FRET-induced intracellular redistribution of Tat-conjugated quantum dot nanoparticles through interaction with a phthalocyanine photosensitizer. <i>Small</i> , 2014 , 10, 782-92	11	51
378	In situ Endothelialization: Bioengineering Considerations to Translation. <i>Small</i> , 2015 , 11, 6248-64	11	51
377	Artificial nerve conduits in peripheral-nerve repair. <i>Biotechnology and Applied Biochemistry</i> , 2005 , 41, 193-200	2.8	51
376	The relationship of hepatic tissue oxygenation with nitric oxide metabolism in ischemic preconditioning of the liver. <i>FASEB Journal</i> , 2002 , 16, 1654-6	0.9	51
375	3D Protein-Based Bilayer Artificial Skin for the Guided Scarless Healing of Third-Degree Burn Wounds in Vivo. <i>Biomacromolecules</i> , 2018 , 19, 2409-2422	6.9	50

374	Role of endothelial nitric oxide synthase in remote ischemic preconditioning of the mouse liver. <i>Liver Transplantation</i> , 2011 , 17, 610-9	4.5	50
373	Decellularized human amniotic membrane: how viable is it as a delivery system for human adipose tissue-derived stromal cells?. <i>Cell Proliferation</i> , 2016 , 49, 115-21	7.9	49
372	Three-dimensional biomaterial degradation - Material choice, design and extrinsic factor considerations. <i>Biotechnology Advances</i> , 2014 , 32, 984-99	17.8	49
371	Inception to actualization: next generation coronary stent coatings incorporating nanotechnology. <i>Journal of Biotechnology</i> , 2013 , 164, 151-70	3.7	49
370	Obesity and arterial compliance alterations. <i>Current Vascular Pharmacology</i> , 2010 , 8, 155-68	3.3	49
369	Effect of prolonged pulsatile shear stress in vitro on endothelial cell seeded PTFE and compliant polyurethane vascular grafts. <i>European Journal of Vascular and Endovascular Surgery</i> , 1998 , 15, 147-54	2.3	49
368	Continuous infusion of N-acetylcysteine reduces liver warm ischaemia-reperfusion injury. <i>British Journal of Surgery</i> , 2004 , 91, 1330-9	5.3	49
367	Development of a Cost-Effective and Simple Protocol for Decellularization and Preservation of Human Amniotic Membrane as a Soft Tissue Replacement and Delivery System for Bone Marrow Stromal Cells. <i>Advanced Healthcare Materials</i> , 2015 , 4, 918-26	10.1	48
366	Design and development of nanocomposite scaffolds for auricular reconstruction. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014 , 10, 235-46	6	48
365	Role of prosthetic conduits in coronary artery bypass grafting. <i>European Journal of Cardio-thoracic Surgery</i> , 2011 , 40, 394-8	3	48
364	Scarring, stem cells, scaffolds and skin repair. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 649-68	4.4	47
363	Surface modification of a POSS-nanocomposite material to enhance cellular integration of a synthetic bioscaffold. <i>Biomaterials</i> , 2016 , 83, 283-93	15.6	47
362	Hearts beating through decellularized scaffolds: whole-organ engineering for cardiac regeneration and transplantation. <i>Critical Reviews in Biotechnology</i> , 2016 , 36, 705-15	9.4	46
361	Biochemical engineering nerve conduits using peptide amphiphiles. <i>Journal of Controlled Release</i> , 2012 , 163, 342-52	11.7	46
360	A review of methods currently used for assessment of in vivo endothelial function. <i>European Journal of Vascular and Endovascular Surgery</i> , 2005 , 29, 269-76	2.3	46
359	Fabrication and in vivo evaluation of an osteoblast-conditioned nano-hydroxyapatite/gelatin composite scaffold for bone tissue regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 2001-10	5.4	46
358	Biomimetic modified clinical-grade POSS-PCU nanocomposite polymer for bypass graft applications: a preliminary assessment of endothelial cell adhesion and haemocompatibility. <i>Materials Science and Engineering C</i> , 2015 , 46, 400-8	8.3	45
357	Conjugation of quantum dots on carbon nanotubes for medical diagnosis and treatment. <i>International Journal of Nanomedicine</i> , 2013 , 8, 941-50	7.3	45

356	Endometrial stem cell differentiation into smooth muscle cell: a novel approach for bladder tissue engineering in women. <i>BJU International</i> , 2013 , 112, 854-63	5.6	45
355	Effect of ischemic preconditioning on hepatic microcirculation and function in a rat model of ischemia reperfusion injury. <i>Liver Transplantation</i> , 2002 , 8, 1182-91	4.5	45
354	A hybrid compliant vascular graft seeded with microvascular endothelial cells extracted from human omentum. <i>Artificial Organs</i> , 2001 , 25, 974-82	2.6	45
353	A comparison of para-anastomotic compliance profiles after vascular anastomosis: nonpenetrating clips versus standard sutures. <i>Journal of Vascular Surgery</i> , 2001 , 33, 812-20	3.5	45
352	Accelerating in situ endothelialisation of cardiovascular bypass grafts. <i>International Journal of Molecular Sciences</i> , 2014 , 16, 597-627	6.3	44
351	Near-infrared quantum dots for HER2 localization and imaging of cancer cells. <i>International Journal of Nanomedicine</i> , 2014 , 9, 1323-37	7.3	44
350	A mathematical analysis on the biological zero problem in laser Doppler flowmetry. <i>IEEE Transactions on Biomedical Engineering</i> , 1998 , 45, 354-64	5	44
349	Tissue engineering of a hybrid bypass graft for coronary and lower limb bypass surgery. <i>FASEB Journal</i> , 2008 , 22, 2084-9	0.9	44
348	Thermo-mechanical analysis of a compliant poly(carbonate-urea)urethane after exposure to hydrolytic, oxidative, peroxidative and biological solutions. <i>Biomaterials</i> , 2002 , 23, 2231-40	15.6	44
347	Nitric oxide synthase distribution and expression with ischemic preconditioning of the rat liver. <i>FASEB Journal</i> , 2005 , 19, 1155-7	0.9	44
346	Polyurethane-Polycaprolactone Blend Patches: Scaffold Characterization and Cardiomyoblast Adhesion, Proliferation, and Function. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 4299-4310	5.5	44
345	Luminal surface engineering, 'micro and nanopatterning': potential for self endothelialising vascular grafts?. <i>European Journal of Vascular and Endovascular Surgery</i> , 2014 , 47, 566-76	2.3	43
344	Application of plasma surface modification techniques to improve hemocompatibility of vascular grafts: A review. <i>Biotechnology and Applied Biochemistry</i> , 2011 , 58, 311-27	2.8	43
343	Engineering of bypass conduits to improve patency. <i>Cell Proliferation</i> , 2004 , 37, 351-66	7.9	43
342	Improving endothelial cell retention for single stage seeding of prosthetic grafts: use of polymer sequences of arginine-glycine-aspartate. <i>European Journal of Vascular and Endovascular Surgery</i> , 2003 , 25, 325-9	2.3	43
341	Targeted Drug Delivery Based on Gold Nanoparticle Derivatives. <i>Current Pharmaceutical Design</i> , 2017 , 23, 2918-2929	3.3	42
340	Manufacture of small calibre quadruple lamina vascular bypass grafts using a novel automated extrusion-phase-inversion method and nanocomposite polymer. <i>Journal of Biomechanics</i> , 2009 , 42, 722-30	3.9	42
339	Functionalization of single-walled carbon nanotubes and their binding to cancer cells. <i>International Journal of Nanomedicine</i> , 2012 , 7, 905-14	7.3	42

338	Development of cardiovascular bypass grafts: endothelialization and applications of nanotechnology. <i>Expert Review of Cardiovascular Therapy</i> , 2008 , 6, 1259-77	2.5	42
337	The role of nitric oxide in the modulation of hepatic microcirculation and tissue oxygenation in an experimental model of hepatic steatosis. <i>Microvascular Research</i> , 2005 , 70, 129-36	3.7	42
336	Effects of sterilization treatments on bulk and surface properties of nanocomposite biomaterials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013 , 101, 1182-90	3.5	41
335	N-Acetylcysteine ameliorates the late phase of liver ischaemia/reperfusion injury in the rabbit with hepatic steatosis. <i>Clinical Science</i> , 2005 , 109, 465-73	6.5	41
334	Chondrogenic differentiation of adipose tissue-derived stem cells within nanocaged POSS-PCU scaffolds: a new tool for nanomedicine. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014 , 10, 279-89	6	40
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