

Alexander Marcus Seifalian

List of Publications by Year in Descending Order

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Version: 2024-04-19

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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.

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	Dental Radiographic/Digital Radiography Technology along with Biological Agents in Human Identification.. <i>Scanning</i> , 2022 , 2022, 5265912	1.6	1
498	Ac-SDKP peptide improves functional recovery following spinal cord injury in a preclinical model.. <i>Neuropeptides</i> , 2022 , 92, 102228	3.3	1
497	Emerging treatment strategies in wound care.. <i>International Wound Journal</i> , 2022 ,	2.6	6
496	The Potential Application of Green-Synthesized Metal Nanoparticles in Dentistry: A Comprehensive Review.. <i>Bioinorganic Chemistry and Applications</i> , 2022 , 2022, 2311910	4.2	6
495	Chemical Characterization and Cytotoxic/Antibacterial Effects of Nine Iranian Propolis Extracts on Human Fibroblast Cells and Oral Bacteria.. <i>BioMed Research International</i> , 2022 , 2022, 6574997	3	2
494	Chemotherapeutic effects of Apigenin in breast cancer: preclinical evidence and molecular mechanisms; enhanced bioavailability by nanoparticles. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2022 , e00730	5.3	3
493	Biocompatible and Biomaterials Application in Drug Delivery System in Oral Cavity. <i>Evidence-based Complementary and Alternative Medicine</i> , 2021 , 2021, 9011226	2.3	4
492	Emerging Application of Magnetic Nanoparticles for Diagnosis and Treatment of Cancer. <i>Polymers</i> , 2021 , 13,	4.5	8
491	Mechanism of Anosmia Caused by Symptoms of COVID-19 and Emerging Treatments. <i>ACS Chemical Neuroscience</i> , 2021 , 12, 3795-3805	5.7	8
490	Hydrogels as Emerging Materials for Cornea Wound Healing. <i>Small</i> , 2021 , 17, e2006335	11	15
489	The role of nanotechnology in current COVID-19 outbreak. <i>Heliyon</i> , 2021 , 7, e06841	3.6	16
488	Graphene Oxide: Opportunities and Challenges in Biomedicine. <i>Nanomaterials</i> , 2021 , 11,	5.4	18
487	Multi-walled carbon nanotube/hydroxyapatite nanocomposite with leukocyte- and platelet-rich fibrin for bone regeneration in sheep model. <i>Oral and Maxillofacial Surgery</i> , 2021 , 1	1.6	0
486	COVID-19 Vaccines in Clinical Trials and their Mode of Action for Immunity against the Virus. <i>Current Pharmaceutical Design</i> , 2021 , 27, 1553-1563	3.3	7
485	Induced Pluripotent Stem Cells (iPSCs) Provide a Potentially Unlimited T Cell Source for CAR-T Cell Development and Off-the-Shelf Products. <i>Pharmaceutical Research</i> , 2021 , 38, 931-945	4.5	6
484	Current natural bioactive materials in bone and tooth regeneration in dentistry: a comprehensive overview. <i>Journal of Materials Research and Technology</i> , 2021 , 13, 2078-2078	5.5	5
483	The risk of pancreatic adenocarcinoma following SARS-CoV family infection. <i>Scientific Reports</i> , 2021 , 11, 12948	4.9	3

482	Combination of 5-azaytidine and hanging drop culture convert fat cell into cardiac cell. <i>Biotechnology and Applied Biochemistry</i> , 2021 , 68, 92-101	2.8	3
481	Poly(methyl methacrylate) bone cement, its rise, growth, downfall and future. <i>Polymer International</i> , 2021 , 70, 1182-1201	3.3	3
480	Can Tissue Engineering Bring Hope to the Development of Human Tympanic Membrane?. <i>Tissue Engineering - Part B: Reviews</i> , 2021 ,	7.9	9
479	Poly(methyl methacrylate)-Based Composite Bone Cements With Different Types of Reinforcement Agents 2021 , 867-886		
478	Extracellular Matrix Scaffold Using Decellularized Cartilage for Hyaline Cartilage Regeneration. <i>Advances in Experimental Medicine and Biology</i> , 2021 , 1345, 209-223	3.6	
477	Strengthening the CAR-T cell therapeutic application using CRISPR/Cas9 technology. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 3691-3705	4.9	7
476	The Current Strategies in Controlling Oral Diseases by Herbal and Chemical Materials. <i>Evidence-based Complementary and Alternative Medicine</i> , 2021 , 2021, 3423001	2.3	5
475	Investigating the Application of Liposomes as Drug Delivery Systems for the Diagnosis and Treatment of Cancer. <i>International Journal of Biomaterials</i> , 2021 , 2021, 3041969	3.2	7
474	Fabrication and properties of developed collagen/strontium-doped Bioglass scaffolds for bone tissue engineering. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 14799-14817	5.5	17
473	Key Regulatory miRNAs and their Interplay with Mechanosensing and Mechanotransduction Signaling Pathways in Breast Cancer Progression. <i>Molecular Cancer Research</i> , 2020 , 18, 1113-1128	6.6	5
472	The inhibitory effect of Tamarix hispida mediated silver nanoparticles on Cyclin D1 protein expression of human cancer cells line. <i>Inorganic and Nano-Metal Chemistry</i> , 2020 , 50, 1144-1149	1.2	1
471	A New Nanocomposite Copolymer Based On Functionalised Graphene Oxide for Development of Heart Valves. <i>Scientific Reports</i> , 2020 , 10, 5271	4.9	14
470	Bacteriophage Based Biosensors: Trends, Outcomes and Challenges. <i>Nanomaterials</i> , 2020 , 10,	5.4	23
469	Conductive carbon nanofibers incorporated into collagen bio-scaffold assists myocardial injury repair. <i>International Journal of Biological Macromolecules</i> , 2020 , 163, 1136-1146	7.9	25
468	Adipose derived stem cells and platelet rich plasma improve the tissue integration and angiogenesis of biodegradable scaffolds for soft tissue regeneration. <i>Molecular Biology Reports</i> , 2020 , 47, 2005-2013	2.8	18
467	The current markers of cancer stem cell in oral cancers. <i>Life Sciences</i> , 2020 , 249, 117483	6.8	17
466	Will Tissue-Engineering Strategies Bring New Hope for the Reconstruction of Nasal Septal Cartilage?. <i>Current Stem Cell Research and Therapy</i> , 2020 , 15, 144-154	3.6	4
465	Bimetallic nickel-ferrite nanorod particles: greener synthesis using rosemary and its biomedical efficiency. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2020 , 48, 242-251	6.1	29

464	Engineered skin graft with stromal vascular fraction cells encapsulated in fibrin-collagen hydrogel: A clinical study for diabetic wound healing. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020 , 14, 424-440	4.4	19
463	Current herbal medicine as an alternative treatment in dentistry: In vitro, in vivo and clinical studies. <i>European Journal of Pharmacology</i> , 2020 , 889, 173665	5.3	13
462	Chimeric Antigen Receptor Based Therapy as a Potential Approach in Autoimmune Diseases: How Close Are We to the Treatment?. <i>Frontiers in Immunology</i> , 2020 , 11, 603237	8.4	13
461	Thermo-responsive chitosan hydrogel for healing of full-thickness wounds infected with XDR bacteria isolated from burn patients: In vitro and in vivo animal model. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 4475-4486	7.9	13
460	Gelatin Electrospun Mat as a Potential Co-culture System for Production of Sperm Cells from Embryonic Stem Cells. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 5823-5832	5.5	2
459	In vitro and in vivo Evaluation of the Efficacy and Safety of Powder Hydroxypropylmethylcellulose as Nasal Mucosal Barrier. <i>Medical Devices: Evidence and Research</i> , 2020 , 13, 107-113	1.5	2
458	Argon plasma modification promotes adipose derived stem cells osteogenic and chondrogenic differentiation on nanocomposite polyurethane scaffolds; implications for skeletal tissue engineering. <i>Materials Science and Engineering C</i> , 2019 , 105, 110085	8.3	12
457	Ultra-low percolation threshold POSS-PCL/graphene electrically conductive polymer: Neural tissue engineering nanocomposites for neurosurgery. <i>Materials Science and Engineering C</i> , 2019 , 104, 109915	8.3	22
456	Electroconductive polyurethane/graphene nanocomposite for biomedical applications. <i>Composites Part B: Engineering</i> , 2019 , 168, 421-431	10	55
455	Lung tissue engineering: An update. <i>Journal of Cellular Physiology</i> , 2019 , 234, 19256-19270	7	18
454	Oral microbial biofilms: an update. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2019 , 38, 2005-2019	5.3	62
453	Emerging roles of exosomal miRNAs in breast cancer drug resistance. <i>IUBMB Life</i> , 2019 , 71, 1672-1684	4.7	17
452	Fabrications of small diameter compliance bypass conduit using electrospinning of clinical grade polyurethane. <i>Vascular</i> , 2019 , 27, 636-647	1.3	4
451	Skin regenerative medicine advancements in the Islamic Republic of Iran: a concise review. <i>Regenerative Medicine</i> , 2019 , 14, 1047-1056	2.5	0
450	Human Adipose-Derived Stem Cells with Great Therapeutic Potential. <i>Current Stem Cell Research and Therapy</i> , 2019 , 14, 532-548	3.6	17
449	Relaxivity and toxicological properties of manganese oxide nanoparticles for MRI applications. <i>RSC Advances</i> , 2019 , 6, 45462-45474	3.7	26
448	Emerging In Vitro 3D Tumour Models in Nanoparticle-Based Gene and Drug Therapy. <i>Trends in Biotechnology</i> , 2018 , 36, 477-480	15.1	1
447	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

446	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
445	Injectable Hydrogel versus Plastically Compressed Collagen Scaffold for Central Nervous System Applications. <i>International Journal of Biomaterials</i> , 2018 , 2018, 3514019	3.2	14
444	Translational Regenerative Therapies for Chronic Spinal Cord Injury. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	28
443	Comparison of the antibacterial effects of a short cationic peptide and 1% silver bioactive glass against extensively drug-resistant bacteria, <i>Pseudomonas aeruginosa</i> and <i>Acinetobacter baumannii</i> , isolated from burn patients. <i>Amino Acids</i> , 2018 , 50, 1617-1628	3.5	12
442	Stem cells for spinal cord injuries bearing translational potential. <i>Neural Regeneration Research</i> , 2018 , 13, 35-42	4.5	21
441	High-Performance Enzyme-Free Glucose Sensor with Co-Cu Nanorod Arrays on Si Substrates. <i>Recent Patents on Biotechnology</i> , 2018 , 12, 126-133	2.2	1
440	Silk fibroin/amniotic membrane 3D bi-layered artificial skin. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 035003	3.6	66
439	The Effect of Melanocyte Stimulating Hormone and Hydroxyapatite on Osteogenesis in Pulp Stem Cells of Human Teeth Transferred into Polyester Scaffolds. <i>Fibers and Polymers</i> , 2018 , 19, 2245-2253	2	3
438	Effect of Laser Irradiation on Cell Cycle and Mitosis. <i>Journal of Lasers in Medical Sciences</i> , 2018 , 9, 249-253	3.6	5
437	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
436	Evaluation of Sterilisation Techniques for Regenerative Medicine Scaffolds Fabricated with Polyurethane Nonbiodegradable and Bioabsorbable Nanocomposite Materials. <i>International Journal of Biomaterials</i> , 2018 , 2018, 6565783	3.2	12
435	In vivo toxicological evaluation of graphene oxide nanoplatelets for clinical application. <i>International Journal of Nanomedicine</i> , 2018 , 13, 4757-4769	7.3	37
434	Nanoparticles in wound healing; from hope to promise, from promise to routine. <i>Frontiers in Bioscience - Landmark</i> , 2018 , 23, 1038-1059	2.8	34
433	Conductive Polymers: Opportunities and Challenges in Biomedical Applications. <i>Chemical Reviews</i> , 2018 , 118, 6766-6843	68.1	320
432	Stem cells for tissue engineered vascular bypass grafts. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2017 , 45, 999-1010	6.1	7
431	Biocompatibility and nanostructured materials: applications in nanomedicine. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2017 , 45, 833-842	6.1	106
430	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
429	In Vitro Hydrodynamic Assessment of a New Transcatheter Heart Valve Concept (the TRISKELE). <i>Journal of Cardiovascular Translational Research</i> , 2017 , 10, 104-115	3.3	18

428	Will Nanotechnology Bring New Hope for Gene Delivery?. <i>Trends in Biotechnology</i> , 2017 , 35, 434-451	15.1	80
427	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
426	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
425	Targeted Drug Delivery Based on Gold Nanoparticle Derivatives. <i>Current Pharmaceutical Design</i> , 2017 , 23, 2918-2929	3.3	42
424	Limitations in Clinical Translation of Nanoparticle-Based Gene Therapy. <i>Trends in Biotechnology</i> , 2017 , 35, 1124-1125	15.1	8
423	Towards reconstruction of epithelialized cartilages from autologous adipose tissue-derived stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 3078-3089	4.4	7
422	Magnetic Nanoparticles: New Perspectives in Drug Delivery. <i>Current Pharmaceutical Design</i> , 2017 , 23, 2908-2917	3.3	24
421	Regenerative Medicine Applications in Wound Care. <i>Current Stem Cell Research and Therapy</i> , 2017 , 12, 658-674	3.6	6
420	Nanotechnology and regenerative therapeutics in plastic surgery: The next frontier. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2016 , 69, 1-13	1.7	13
419	Next generation covered stents made from nanocomposite materials: A complete assessment of uniformity, integrity and biomechanical properties. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 1-12	6	23
418	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
417	Biomechanical Characterisation of the Human Auricular Cartilages; Implications for Tissue Engineering. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 3460-3467	4.7	28
416	Biomechanical Characterization of Human Soft Tissues Using Indentation and Tensile Testing. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	31
415	Oxygen-Generating Biomaterials: A New, Viable Paradigm for Tissue Engineering?. <i>Trends in Biotechnology</i> , 2016 , 34, 1010-1021	15.1	134
414	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
413	Development of mechano-responsive polymeric scaffolds using functionalized silica nano-fillers for the control of cellular functions. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 1725-33	6	22
412	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
411	Quantum dot nanoparticle for optimization of breast cancer diagnostics and therapy in a clinical setting. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 1581-92	6	27

410	Personalized development of human organs using 3D printing technology. <i>Medical Hypotheses</i> , 2016 , 87, 30-3	3.8	58
409	Slow chlorine releasing compounds: A viable sterilisation method for bioabsorbable nanocomposite biomaterials. <i>Journal of Biomaterials Applications</i> , 2016 , 30, 1114-24	2.9	2
408	Enhancing tissue integration and angiogenesis of a novel nanocomposite polymer using plasma surface polymerisation, an in vitro and in vivo study. <i>Biomaterials Science</i> , 2016 , 4, 145-58	7.4	33
407	BIOMECHANICAL REMODELING OF BIODEGRADABLE SMALL-DIAMETER VASCULAR GRAFTS IN SITU. <i>Vestnik Transplantologii I Iskusstvennykh Organov</i> , 2016 , 18, 99-109	0.3	3
406	Haemoxygenase modulates cytokine induced neutrophil chemoattractant in hepatic ischemia reperfusion injury. <i>World Journal of Gastroenterology</i> , 2016 , 22, 7518-35	5.6	7
405	A new transcatheter heart valve concept (the TRISKELE): feasibility in an acute preclinical model. <i>EuroIntervention</i> , 2016 , 12, 901-8	3.1	8
404	Nanohydroxyapatite Effect on the Degradation, Osteoconduction and Mechanical Properties of Polymeric Bone Tissue Engineered Scaffolds. <i>The Open Orthopaedics Journal</i> , 2016 , 10, 900-919	0.3	18
403	Conjugation with RGD Peptides and Incorporation of Vascular Endothelial Growth Factor Are Equally Efficient for Biofunctionalization of Tissue-Engineered Vascular Grafts. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	25
402	Bioabsorbable Bypass Grafts Biofunctionalised with RGD Have Enhanced Biophysical Properties and Endothelialisation Tested In vivo. <i>Frontiers in Pharmacology</i> , 2016 , 7, 136	5.6	11
401	A Bidesigned Nanocomposite Biomaterial for Auricular Cartilage Reconstruction. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1203-12	10.1	16
400	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
399	Development of a Tissue-Engineered Lymphatic Graft Using Nanocomposite Polymer for the Treatment of Secondary Lymphedema. <i>Artificial Organs</i> , 2016 , 40, E1-11	2.6	10
398	pH-Activatable MnO-Based Fluorescence and Magnetic Resonance Bimodal Nanoprobe for Cancer Imaging. <i>Advanced Healthcare Materials</i> , 2016 , 5, 721-9	10.1	30
397	Novel heart valve prosthesis with self-endothelialization potential made of modified polyhedral oligomeric silsesquioxane-nanocomposite material. <i>Biointerphases</i> , 2016 , 11, 029801	1.8	14
396	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
395	An arsenal of magnetic nanoparticles; perspectives in the treatment of cancer. <i>Nanomedicine</i> , 2016 , 11, 2215-32	5.6	15
394	The influence of silica nanoparticles on small mesenteric arterial function. <i>Nanomedicine</i> , 2016 , 11, 2131-46	4.6	7
393	Cancer Imaging: pH-Activatable MnO-Based Fluorescence and Magnetic Resonance Bimodal Nanoprobe for Cancer Imaging (Adv. Healthcare Mater. 6/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 720-720	10.1	1

392 Advancing Translational Nanotechnology to Clinical Application **2015**, 363-379

391 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. *Advanced Healthcare Materials*, **2015**, 4, 918-26 10.1 48

390 Evaluation of experimental methods for nitric oxide release from cardiovascular implants; bypass grafts as an exemplar. *Therapeutic Advances in Cardiovascular Disease*, **2015**, 9, 375-88 3.4 1

389 Transdermal Delivery of Functional Collagen Via Polyvinylpyrrolidone Microneedles. *Annals of Biomedical Engineering*, **2015**, 43, 2978-90 4.7 24

388 A potential platform for developing 3D tubular scaffolds for paediatric organ development. *Journal of Materials Science: Materials in Medicine*, **2015**, 26, 141 4.5 7

387 Tendon Reconstruction with Tissue Engineering Approach--A Review. *Journal of Biomedical Nanotechnology*, **2015**, 11, 1495-523 4 21

386 The effect of TGF- β and BMP-4 on bone marrow-derived stem cell morphology on a novel bioabsorbable nanocomposite material. *Artificial Cells, Nanomedicine and Biotechnology*, **2015**, 43, 230-46.1 4

385 Novel POSS-PCU Nanocomposite Material as a Biocompatible Coating for Quantum Dots. *Bioconjugate Chemistry*, **2015**, 26, 2384-96 6.3 29

384 The influence of porosity on the hemocompatibility of polyhedral oligomeric silsesquioxane poly (caprolactone-urea) urethane. *International Journal of Biochemistry and Cell Biology*, **2015**, 68, 176-86 5.6 17

383 Preventing in-stent restenosis using lipoprotein (a), lipid and cholesterol adsorbent materials. *Medical Hypotheses*, **2015**, 85, 986-8 3.8 4

382 The application of POSS nanostructures in cartilage tissue engineering: the chondrocyte response to nanoscale geometry. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, E27-38 4.4 22

381 Tissue engineering vascular grafts a fortiori: looking back and going forward. *Expert Opinion on Biological Therapy*, **2015**, 15, 231-44 5.4 35

380 Differentiation of human endometrial stem cells into urothelial cells on a three-dimensional nanofibrous silk-collagen scaffold: an autologous cell resource for reconstruction of the urinary bladder wall. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, 1268-76 4.4 31

379 Scarring, stem cells, scaffolds and skin repair. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, 649-68 4.4 47

378 Trachea transplantation: from laboratory to patient. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, 357-67 4.4 64

377 Biomimetic modified clinical-grade POSS-PCU nanocomposite polymer for bypass graft applications: a preliminary assessment of endothelial cell adhesion and haemocompatibility. *Materials Science and Engineering C*, **2015**, 46, 400-8 8.3 45

376 Octa-ammonium POSS-conjugated single-walled carbon nanotubes as vehicles for targeted delivery of paclitaxel. *Nano Reviews*, **2015**, 6, 28297 13

375 Controllable degradation kinetics of POSS nanoparticle-integrated poly(ϵ -caprolactone urea)urethane elastomers for tissue engineering applications. *Scientific Reports*, **2015**, 5, 15040 4.9 15

374	In situ Endothelialization: Bioengineering Considerations to Translation. <i>Small</i> , 2015 , 11, 6248-64	11	51
373	Role of nanotopography in the development of tissue engineered 3D organs and tissues using mesenchymal stem cells. <i>World Journal of Stem Cells</i> , 2015 , 7, 266-80	5.6	34
372	Vascularisation in regenerative therapeutics and surgery. <i>Materials Science and Engineering C</i> , 2015 , 54, 225-38	8.3	9
371	Sterilization-Induced Changes in Surface Topography of Biodegradable POSS-PCLU and the Cellular Response of Human Dermal Fibroblasts. <i>Tissue Engineering - Part C: Methods</i> , 2015 , 21, 614-30	2.9	8
370	173 Infused silica nanoparticles compromise vascular function in small mesenteric arteries. <i>Heart</i> , 2015 , 101, A98.2-A98	5.1	
369	Nanotopography and plasma treatment: redesigning the surface for vascular graft endothelialisation. <i>European Journal of Vascular and Endovascular Surgery</i> , 2015 , 49, 335-43	2.3	29
368	Advances in regenerative therapies for spinal cord injury: a biomaterials approach. <i>Neural Regeneration Research</i> , 2015 , 10, 726-42	4.5	93
367	Nanotechnology and bio-functionalisation for peripheral nerve regeneration. <i>Neural Regeneration Research</i> , 2015 , 10, 1191-4	4.5	15
366	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
365	Accelerating in situ endothelialisation of cardiovascular bypass grafts. <i>International Journal of Molecular Sciences</i> , 2014 , 16, 597-627	6.3	44
364	A polyhedral oligomeric silsesquioxane-based bilayered dermal scaffold seeded with adipose tissue-derived stem cells: in vitro assessment of biomechanical properties. <i>Journal of Surgical Research</i> , 2014 , 188, 361-72	2.5	16
363	Fluorescence lifetime imaging and FRET-induced intracellular redistribution of Tat-conjugated quantum dot nanoparticles through interaction with a phthalocyanine photosensitiser. <i>Small</i> , 2014 , 10, 782-92	11	51
362	Tissue-engineered lymphatic graft for the treatment of lymphedema. <i>Journal of Surgical Research</i> , 2014 , 192, 544-54	2.5	15
361	Toxicology of chemically modified graphene-based materials for medical application. <i>Archives of Toxicology</i> , 2014 , 88, 1987-2012	5.8	55
360	The Use of Skin Substitutes in the Treatment of Burns 2014 , 771-782		3
359	Enhancing the electrical conductivity of a hybrid POSS-PCL/graphene nanocomposite polymer. <i>Journal of Colloid and Interface Science</i> , 2014 , 435, 145-55	9.3	36
358	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
357	Regenerative nanotechnology in oral and maxillofacial surgery. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2014 , 52, 884-93	1.4	7

356	Quantification of reactive oxygen species generation by photoexcitation of PEGylated quantum dots. <i>Small</i> , 2014 , 10, 5106-15	11	25
355	Endometrial stem cells in regenerative medicine. <i>Journal of Biological Engineering</i> , 2014 , 8, 20	6.3	53
354	The use of adipose stem cells in cranial facial surgery. <i>Stem Cell Reviews and Reports</i> , 2014 , 10, 671-85	6.4	29
353	Tissue engineering's green shoots of disruptive innovation. <i>Lancet, The</i> , 2014 , 384, 288-90	40	10
352	Investigation of Schwann cell behaviour on RGD-functionalised bioabsorbable nanocomposite for peripheral nerve regeneration. <i>New Biotechnology</i> , 2014 , 31, 203-13	6.4	26
351	Exosomes as immunotheranostic nanoparticles. <i>Clinical Therapeutics</i> , 2014 , 36, 820-9	3.5	62
350	Carbon nanotubes leading the way forward in new generation 3D tissue engineering. <i>Biotechnology Advances</i> , 2014 , 32, 1000-14	17.8	109
349	Three-dimensional biomaterial degradation - Material choice, design and extrinsic factor considerations. <i>Biotechnology Advances</i> , 2014 , 32, 984-99	17.8	49
348	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
347	Stem cell tracking using iron oxide nanoparticles. <i>International Journal of Nanomedicine</i> , 2014 , 9, 1641-53	3.3	68
346	Bioabsorbable stent quo vadis: a case for nano-theranostics. <i>Theranostics</i> , 2014 , 4, 514-33	12.1	10
345	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
344	Polyhedral Oligomeric Silsesquioxane Poly (Carbonate-Urea) Urethane (POSS-PCU): Applications in Nanotechnology and Regenerative Medicine. <i>Critical Reviews in Biomedical Engineering</i> , 2014 ,	1.1	4
343	Personalized in vitro cancer modeling - fantasy or reality?. <i>Translational Oncology</i> , 2014 , 7, 657-64	4.9	28
342	Treatment of life-threatening wounds with a combination of allogenic platelet-rich plasma, fibrin glue and collagen matrix, and a literature review. <i>Experimental and Therapeutic Medicine</i> , 2014 , 8, 423-429	2.1	16
341	Nerve conduits for peripheral nerve surgery. <i>Plastic and Reconstructive Surgery</i> , 2014 , 133, 1420-1430	2.7	82
340	Fumed silica nanoparticle mediated biomimicry for optimal cell-material interactions for artificial organ development. <i>Macromolecular Bioscience</i> , 2014 , 14, 307-13	5.5	8
339	Adipogenic differentiation of adipose-derived stem cells in 3-dimensional spheroid cultures (microtissue): implications for the reconstructive surgeon. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2014 , 67, 1726-34	1.7	38

338	Nerve Regeneration and Bioengineering 2014 , 799-810		8
337	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
336	Design and development of nanocomposite scaffolds for auricular reconstruction. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014 , 10, 235-46	6	48
335	Nitric oxide-eluting nanocomposite for cardiovascular implants. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 917-29	4.5	20
334	Intracranial stents past, present and the future trend: stents made with nano-particle or nanocomposite biomaterials. <i>Current Medicinal Chemistry</i> , 2014 , 21, 4290-9	4.3	6
333	Intracranial aneurysms; in need of early diagnostic and treatment using bio- and nanotechnology. <i>Current Medicinal Chemistry</i> , 2014 , 21, 4300-10	4.3	1
332	Altered sensitivity to nitric oxide donors, induced by intravascular infusion of quantum dots, in murine mesenteric arteries. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013 , 9, 532-9	6	11
331	Self-assembly of PbS hollow sphere quantum dots via gasBubble technique for early cancer diagnosis. <i>Journal of Luminescence</i> , 2013 , 133, 188-193	3.8	27
330	Surface modification of a polyhedral oligomeric silsesquioxane poly(carbonate-urea) urethane (POSS-PCU) nanocomposite polymer as a stent coating for enhanced capture of endothelial progenitor cells. <i>Biointerphases</i> , 2013 , 8, 23	1.8	33
329	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
328	Arterial tissue regeneration for pediatric applications: inspiration from up-to-date tissue-engineered vascular bypass grafts. <i>Artificial Organs</i> , 2013 , 37, 423-34	2.6	16
327	Exosomes as nano-theranostic delivery platforms for gene therapy. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 357-67	18.5	166
326	Nitric oxide donors for cardiovascular implant applications. <i>Small</i> , 2013 , 9, 22-35	11	122
325	Effect of human urine on the tensile strength of sutures used for hypospadias surgery. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2013 , 66, 835-8	1.7	4
324	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
323	Inception to actualization: next generation coronary stent coatings incorporating nanotechnology. <i>Journal of Biotechnology</i> , 2013 , 164, 151-70	3.7	49
322	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
321	Rapid production of autologous fibrin hydrogels for cellular encapsulation in organ regeneration. <i>Methods in Molecular Biology</i> , 2013 , 1001, 145-52	1.4	4

320	Channelrhodopsins: visual regeneration and neural activation by a light switch. <i>New Biotechnology</i> , 2013 , 30, 461-74	6.4	19
319	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
318	Nanotechnology-based gene-eluting stents. <i>Molecular Pharmaceutics</i> , 2013 , 10, 1279-98	5.6	16
317	A novel cell therapy for stress urinary incontinence, short-term outcome. <i>Neurourology and Urodynamics</i> , 2013 , 32, 377-82	2.3	18
316	Carbon Nanotubes in the Diagnosis and Treatment of Malignant Melanoma. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2013 , 13, 171-185	2.2	10
315	Treatment of non-healing sternum wound after open-heart surgery with allogenic platelet-rich plasma and fibrin glue-preliminary outcomes. <i>Indian Journal of Plastic Surgery</i> , 2013 , 46, 538-42	0.9	10
314	Modifying three-dimensional scaffolds from novel nanocomposite materials using dissolvable porogen particles for use in liver tissue engineering. <i>Journal of Biomaterials Applications</i> , 2013 , 28, 250-61 ⁹	2.9	9
313	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
312	Surface and mechanical analysis of explanted Poly Implant Prosth�e silicone breast implants. <i>British Journal of Surgery</i> , 2013 , 100, 761-7	5.3	21
311	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
310	Chondrogenic potential of bone marrow-derived mesenchymal stem cells on a novel, auricular-shaped, nanocomposite scaffold. <i>Journal of Tissue Engineering</i> , 2013 , 4, 2041731413516782	7.5	9
309	Nasal reconstruction using tissue engineered constructs: an update. <i>Annals of Plastic Surgery</i> , 2013 , 71, 238-44	1.7	10
308	Phage nanobioparticle expressing apoptin efficiently suppress human breast carcinoma tumor growth in vivo. <i>PLoS ONE</i> , 2013 , 8, e79907	3.7	13
307	An anti-CD34 antibody-functionalized clinical-grade POSS-PCU nanocomposite polymer for cardiovascular stent coating applications: a preliminary assessment of endothelial progenitor cell capture and hemocompatibility. <i>PLoS ONE</i> , 2013 , 8, e77112	3.7	35
306	Cancer antibody enhanced real time imaging cell probes--a novel theranostic tool using polymer linked carbon nanotubes and quantum dots. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2013 , 13, 821-32 ^{2.2}	2.2	13
305	Polyhedral oligomeric silsesquioxane poly(carbonate-urea) urethane (POSS-PCU): applications in nanotechnology and regenerative medicine. <i>Critical Reviews in Biomedical Engineering</i> , 2013 , 41, 495-513 ^{1.1}	1.1	5
304	A rat decellularized small bowel scaffold that preserves villus-crypt architecture for intestinal regeneration. <i>Biomaterials</i> , 2012 , 33, 3401-10	15.6	163
303	Systematic review: the applications of nanotechnology in gastroenterology. <i>Alimentary Pharmacology and Therapeutics</i> , 2012 , 36, 213-21	6.1	23

302	Remote preconditioning improves hepatic oxygenation after ischaemia reperfusion injury. <i>Transplant International</i> , 2012 , 25, 783-91	3	20
301	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
300	Biofunctionalized quantum dots for live monitoring of stem cells: applications in regenerative medicine. <i>Regenerative Medicine</i> , 2012 , 7, 335-47	2.5	11
299	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
298	Synthesis of mercaptosuccinic acid/MercaptoPolyhedral oligomeric silsesquioxane coated cadmium telluride quantum dots in cell labeling applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 4928-35	1.3	10
297	PS200. Performance of a Nanocomposite Polymer Small Diameter Bypass Graft in a Log-term Sheep Model. <i>Journal of Vascular Surgery</i> , 2012 , 55, 77S-78S	3.5	2
296	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
295	Skin regeneration scaffolds: a multimodal bottom-up approach. <i>Trends in Biotechnology</i> , 2012 , 30, 638-48	5.1	197
294	Synergistic photothermal ablative effects of functionalizing carbon nanotubes with a POSS-PCU nanocomposite polymer. <i>Journal of Nanobiotechnology</i> , 2012 , 10, 34	9.4	22
293	Cyclooxygenase/lipoxygenase shunting lowers the anti-cancer effect of cyclooxygenase-2 inhibition in colorectal cancer cells. <i>World Journal of Surgical Oncology</i> , 2012 , 10, 200	3.4	18
292	Biochemical engineering nerve conduits using peptide amphiphiles. <i>Journal of Controlled Release</i> , 2012 , 163, 342-52	11.7	46
291	Organic nanocarriers for cancer drug delivery. <i>Current Opinion in Pharmacology</i> , 2012 , 12, 414-9	5.1	40
290	Next generation stent coatings: convergence of biotechnology and nanotechnology. <i>Trends in Biotechnology</i> , 2012 , 30, 406-9	15.1	21
289	A novel POSS-coated quantum dot for biological application. <i>International Journal of Nanomedicine</i> , 2012 , 7, 3915-27	7.3	23
288	Advancing nasal reconstructive surgery: the application of tissue engineering technology. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012 , 6, 757-68	4.4	17
287	Orchestrating cell/material interactions for tissue engineering of surgical implants. <i>Macromolecular Bioscience</i> , 2012 , 12, 1010-21	5.5	18
286	A silver nanocomposite biomaterial for blood-contacting implants. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 2348-57	5.4	22
285	Tissue-engineered heart valve: future of cardiac surgery. <i>World Journal of Surgery</i> , 2012 , 36, 1581-91	3.3	71

284	Modulation of microcirculatory changes in the late phase of hepatic ischaemia-reperfusion injury by remote ischaemic preconditioning. <i>Hpb</i> , 2012 , 14, 87-97	3.8	16
283	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
282	Nanotechnology and tissue-engineered organ regeneration 2012 , 403-427		
281	A sutureless aortic stent-graft based on a nitinol scaffold bonded to a compliant nanocomposite polymer is durable for 10 years in a simulated in vitro model. <i>Journal of Endovascular Therapy</i> , 2012 , 19, 415-27	2.5	13
280	Surface modification of biomaterials: a quest for blood compatibility. <i>International Journal of Biomaterials</i> , 2012 , 2012, 707863	3.2	71
279	Nanostructured materials for cardiovascular tissue engineering. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 4775-85	1.3	17
278	Application of OctaAmmonium-POSS functionalized single walled carbon nanotubes for thermal treatment of cancer. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 9018-28	1.3	6
277	The hepatic soluble guanylyl cyclase-cyclic guanosine monophosphate pathway mediates the protection of remote ischemic preconditioning on the microcirculation in liver ischemia-reperfusion injury. <i>Transplantation</i> , 2012 , 93, 880-6	1.8	11
276	Tissue engineering: revolution and challenge in auricular cartilage reconstruction. <i>Plastic and Reconstructive Surgery</i> , 2012 , 129, 1123-1137	2.7	68
275	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
274	Biomedical Application of Polyhedral Oligomeric Silsesquioxane Nanoparticles. <i>Advances in Silicon Science</i> , 2011 , 363-399		7
273	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
272	Nitric oxide: a guardian for vascular grafts?. <i>Chemical Reviews</i> , 2011 , 111, 5742-67	68.1	134
271	Un modèle aortique pour l'évaluation physiologique des endoprothèses couvertes. <i>Annales De Chirurgie Vasculaire</i> , 2011 , 25, 570-578		
270	The role of immunophilin ligands in nerve regeneration. <i>Regenerative Medicine</i> , 2011 , 6, 635-52	2.5	25
269	Tracheobronchial transplantation with a stem-cell-seeded bioartificial nanocomposite: a proof-of-concept study. <i>Lancet, The</i> , 2011 , 378, 1997-2004	4.0	353
268	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
267	Remote ischemic preconditioning by hindlimb occlusion prevents liver ischemic/reperfusion injury. <i>Annals of Surgery</i> , 2011 , 254, 178-80	7.8	4

266	Inhibition of the p38 MAPK pathway sensitises human colon cancer cells to 5-fluorouracil treatment. <i>International Journal of Oncology</i> , 2011 , 38, 1695-702	4.4	27
265	Nitric oxide is an essential mediator of the protective effects of remote ischaemic preconditioning in a mouse model of liver ischaemia/reperfusion injury. <i>Clinical Science</i> , 2011 , 121, 257-66	6.5	40
264	Glycine maintains mitochondrial activity and bile composition following warm liver ischemia-reperfusion injury. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2011 , 26, 194-200	4	15
263	Adipose-derived stem cells for clinical applications: a review. <i>Cell Proliferation</i> , 2011 , 44, 86-98	7.9	89
262	Toxicology and clinical potential of nanoparticles. <i>Nano Today</i> , 2011 , 6, 585-607	17.9	462
261	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
260	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
259	Effect of remote ischemic preconditioning on liver ischemia/reperfusion injury using a new mouse model. <i>Liver Transplantation</i> , 2011 , 17, 70-82	4.5	36
258	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
257	A nanocage for nanomedicine: polyhedral oligomeric silsesquioxane (POSS). <i>Macromolecular Rapid Communications</i> , 2011 , 32, 1032-46	4.8	227
256	In situ endothelialization of intravascular stents from progenitor stem cells coated with nanocomposite and functionalized biomolecules. <i>Biotechnology and Applied Biochemistry</i> , 2011 , 58, 2-13 ^{2.8}	2.8	29
255	Surface modification of POSS-nanocomposite biomaterials using reactive oxygen plasma treatment for cardiovascular surgical implant applications. <i>Biotechnology and Applied Biochemistry</i> , 2011 , 58, 147-61 ^{2.8}	2.8	35
254	A novel method for the extraction and culture of progenitor stem cells from human peripheral blood for use in regenerative medicine. <i>Biotechnology and Applied Biochemistry</i> , 2011 , 58, 328-34	2.8	8
253	The long-term stability in gene expression of human endothelial cells permits the production of large numbers of cells suitable for use in regenerative medicine. <i>Biotechnology and Applied Biochemistry</i> , 2011 , 58, 371-5	2.8	4
252	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
251	Nerve regeneration with aid of nanotechnology and cellular engineering. <i>Biotechnology and Applied Biochemistry</i> , 2011 , 58, 288-300	2.8	27
250	Development of a new lacrimal drainage conduit using POSS nanocomposite. <i>Biotechnology and Applied Biochemistry</i> , 2011 , 58, 363-70	2.8	52
249	In vivo study of a model tissue-engineered small-diameter vascular bypass graft. <i>Biotechnology and Applied Biochemistry</i> , 2011 , 58, 14-24	2.8	24

248	How safe and how good are drug-eluting stents?. <i>Future Cardiology</i> , 2011 , 7, 251-70	1.3	14
247	The one-pot synthesis of core/shell/shell CdTe/CdSe/ZnSe quantum dots in aqueous media for in vivo deep tissue imaging. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2877		37
246	An aortic model for the physiological assessment of endovascular stent-grafts. <i>Annals of Vascular Surgery</i> , 2011 , 25, 530-7	1.7	3
245	Polymeric coating of surface modified nitinol stent with POSS-nanocomposite polymer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 86, 93-105	6	40
244	Gold revolution--gold nanoparticles for modern medicine and surgery. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 3740-8	1.3	37
243	Current trends in the application of nanoparticles in drug delivery. <i>Current Medicinal Chemistry</i> , 2011 , 18, 1067-78	4.3	60
242	Remote ischaemic preconditioning versus no remote ischaemic preconditioning for vascular and endovascular surgical procedures. <i>The Cochrane Library</i> , 2011 , CD008472	5.2	15
241	Role of prosthetic conduits in coronary artery bypass grafting. <i>European Journal of Cardio-thoracic Surgery</i> , 2011 , 40, 394-8	3	48
240	Next generation brain implant coatings and nerve regeneration via novel conductive nanocomposite development. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 3253-7	0.9	10
239	Modifying biomaterial surfaces to optimise interactions with blood 2011 , 255-283		1
238	The study of collagen immobilization on a novel nanocomposite to enhance cell adhesion and growth. <i>Iranian Biomedical Journal</i> , 2011 , 15, 6-14	2	7
237	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
236	Haemodynamic regulation of gene expression in vascular tissue engineering. <i>Current Vascular Pharmacology</i> , 2011 , 9, 167-87	3.3	12
235	Pretreatment with insulin-like growth factor I protects skeletal muscle cells against oxidative damage via PI3K/Akt and ERK1/2 MAPK pathways. <i>Laboratory Investigation</i> , 2010 , 90, 391-401	5.9	32
234	Attenuation of warm ischemia-reperfusion injury in the liver by buccillamine through decreased neutrophil activation and Bax/Bcl-2 modulation. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2010 , 25, 1891-9	4	12
233	Inhibition of neointimal formation and hyperplasia in vein grafts by external stent/sheath. <i>Vascular Medicine</i> , 2010 , 15, 287-97	3.3	39
232	Development of Cardiovascular Implants Using Nanocomposite Polymer and Stem Cell Technology: From Lab to Commercialisation. <i>Advances in Science and Technology</i> , 2010 , 76, 207-213	0.1	
231	Viscoelastic behaviour of a small calibre vascular graft made from a POSS-nanocomposite. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 251-4	0.9	6

230	Semiconductor quantum dots as fluorescent probes for in vitro and in vivo bio-molecular and cellular imaging. <i>Nano Reviews</i> , 2010 , 1,		96
229	Chondrogenic potential of blood-acquired mesenchymal progenitor cells. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2010 , 63, 841-7	1.7	11
228	Modern surgical management of peripheral nerve gap. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2010 , 63, 1941-8	1.7	118
227	Ischemic preconditioning of small bowel mitigates the late phase of reperfusion injury: heme oxygenase mediates cytoprotection. <i>American Journal of Surgery</i> , 2010 , 199, 223-31	2.7	31
226	Intracellular oxygenation and cytochrome oxidase C activity in ischemic preconditioning of steatotic rabbit liver. <i>American Journal of Surgery</i> , 2010 , 200, 507-18	2.7	7
225	Development of conductive polymer with carbon nanotubes for regenerative medicine applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 815-8	0.9	8
224	The implications of human stem cell differentiation to endothelial cell via fluid shear stress in cardiovascular regenerative medicine: a review. <i>Current Pharmaceutical Design</i> , 2010 , 16, 3848-61	3.3	14
223	Obesity and arterial compliance alterations. <i>Current Vascular Pharmacology</i> , 2010 , 8, 155-68	3.3	49
222	The application of exosomes as a nanoscale cancer vaccine. <i>International Journal of Nanomedicine</i> , 2010 , 5, 889-900	7.3	101
221	Surface structural conformations of fibrinogen polypeptides for improved biocompatibility. <i>Biomaterials</i> , 2010 , 31, 3781-92	15.6	39
220	AAA stent-grafts: past problems and future prospects. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 1259-75	4.5	26
219	Properties evaluation of a new MRI contrast agent based on Gd-loaded nanoparticles. <i>Biological Trace Element Research</i> , 2010 , 137, 324-34	4.5	15
218	Nanosilver as a new generation of nanoprodukt in biomedical applications. <i>Trends in Biotechnology</i> , 2010 , 28, 580-8	15.1	1019
217	Nanotechnology and its applications in surgery. <i>British Journal of Surgery</i> , 2010 , 97, 463-5	5.3	15
216	Liver ischemia/reperfusion injury: processes in inflammatory networks--a review. <i>Liver Transplantation</i> , 2010 , 16, 1016-32	4.5	255
215	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
214	Doxycycline in mitochondrial mediated pathway of apoptosis: a systematic review. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2010 , 10, 556-63	2.2	12
213	Acute limb ischemia caused by femoral arterial line induces remote liver injury in a rabbit model of liver ischemia/reperfusion injury. <i>Angiology</i> , 2009 , 60, 554-61	2.1	5

212	Polymeric heart valves: new materials, emerging hopes. <i>Trends in Biotechnology</i> , 2009 , 27, 359-67	15.1	157
211	IGF-I activates caspases 3/7, 8 and 9 but does not induce cell death in colorectal cancer cells. <i>BMC Cancer</i> , 2009 , 9, 158	4.8	9
210	Degradation studies on biodegradable nanocomposite based on polycaprolactone/polycarbonate (80:20%) polyhedral oligomeric silsesquioxane. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 91, 834-44	5.4	22
209	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
208	Authors's reply: Topical haemostatic agents (Br J Surg 2008; 95: 1197-1225). <i>British Journal of Surgery</i> , 2009 , 96, 445-445	5.3	
207	Functional blocking of specific integrins inhibit colonic cancer migration. <i>Clinical and Experimental Metastasis</i> , 2009 , 26, 769-80	4.7	20
206	Effect of remote ischemic preconditioning on hepatic microcirculation and function in a rat model of hepatic ischemia reperfusion injury. <i>Hpb</i> , 2009 , 11, 108-17	3.8	39
205	Bucillamine improves hepatic microcirculation and reduces hepatocellular injury after liver warm ischaemia-reperfusion injury. <i>Hpb</i> , 2009 , 11, 264-73	3.8	7
204	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
203	A novel nanocomposite polymer for development of synthetic heart valve leaflets. <i>Acta Biomaterialia</i> , 2009 , 5, 2409-17	10.8	121
202	A new biodegradable nanocomposite based on polyhedral oligomeric silsesquioxane nanocages: cytocompatibility and investigation into electrohydrodynamic jet fabrication techniques for tissue-engineered scaffolds. <i>Biotechnology and Applied Biochemistry</i> , 2009 , 52, 1-8	2.8	33
201	In vitro small intestinal epithelial cell growth on a nanocomposite polycaprolactone scaffold. <i>Biotechnology and Applied Biochemistry</i> , 2009 , 54, 221-9	2.8	31
200	In situ endothelialization potential of a biofunctionalised nanocomposite biomaterial-based small diameter bypass graft. <i>Bio-Medical Materials and Engineering</i> , 2009 , 19, 317-31	1	33
199	Liposomes and nanoparticles: nanosized vehicles for drug delivery in cancer. <i>Trends in Pharmacological Sciences</i> , 2009 , 30, 592-9	13.2	945
198	Apoptosis and colorectal cancer: implications for therapy. <i>Trends in Molecular Medicine</i> , 2009 , 15, 225-33	11.5	70
197	The effect of consecutively larger doses of L-arginine on hepatic microcirculation and tissue oxygenation in hepatic steatosis. <i>Microvascular Research</i> , 2009 , 78, 206-11	3.7	9
196	Does doxycycline work in synergy with cisplatin and oxaliplatin in colorectal cancer?. <i>World Journal of Surgical Oncology</i> , 2009 , 7, 2	3.4	14
195	Ex Vivo Formation of Blood Vessels 2009 , 685-692		1

194	Electrohydrodynamic jetting behaviour of polyhedral oligomeric silsesquioxane nanocomposite. <i>Journal of Biomaterials Applications</i> , 2009 , 23, 293-309	2.9	21
193	Quantum dots and their potential biomedical applications in photosensitization for photodynamic therapy. <i>Nanomedicine</i> , 2009 , 4, 353-63	5.6	126
192	The in-vivo effect of pyrrolidine dithiocarbamate on hepatic parenchymal microcirculation and oxygenation of the rat liver. <i>European Journal of Gastroenterology and Hepatology</i> , 2009 , 21, 1184-90	2.2	1
191	Endothelial cell retention on a viscoelastic nanocomposite vascular conduit is improved by exposure to shear stress preconditioning prior to physiological flow. <i>Artificial Organs</i> , 2008 , 32, 977-81	2.6	9
190	Assessment of the potential of progenitor stem cells extracted from human peripheral blood for seeding a novel vascular graft material. <i>Cell Proliferation</i> , 2008 , 41, 321-35	7.9	33
189	An in vivo rat model for early development of colorectal cancer metastasis to liver. <i>International Journal of Experimental Pathology</i> , 2008 , 89, 447-57	2.8	8
188	Percutaneous heart valve replacement: an update. <i>Trends in Cardiovascular Medicine</i> , 2008 , 18, 117-25	6.9	13
187	Development of cardiovascular bypass grafts: endothelialization and applications of nanotechnology. <i>Expert Review of Cardiovascular Therapy</i> , 2008 , 6, 1259-77	2.5	42
186	Glycine Protects Bile Physiology and Biliary-Specific Liver Cell Metabolism from Ischemia-Reperfusion Injury: A 1H NMR Study. <i>Cell Preservation Technology</i> , 2008 , 6, 173-180		2
185	Biofunctionalization of biomaterials for accelerated in situ endothelialization: a review. <i>Biomacromolecules</i> , 2008 , 9, 2969-79	6.9	292
184	Inducing apoptosis of human colon cancer cells by an IGF-I D domain analogue peptide. <i>Molecular Cancer</i> , 2008 , 7, 17	42.1	10
183	Dynamic protein adsorption at the polyurethane copolymer/water interface. <i>Biomedical Materials (Bristol)</i> , 2008 , 3, 034123	3.5	22
182	Vascular risk factors in South Asians. <i>International Journal of Cardiology</i> , 2008 , 128, 5-16	3.2	39
181	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
180	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
179	Integrins: a method of early intervention in the treatment of colorectal liver metastases. <i>Current Pharmaceutical Design</i> , 2008 , 14, 296-305	3.3	27
178	In vivo models for early development of colorectal liver metastasis. <i>International Journal of Experimental Pathology</i> , 2008 , 89, 1-12	2.8	13
177	Topical haemostatic agents. <i>British Journal of Surgery</i> , 2008 , 95, 1197-225	5.3	152

176	Properties of the amniotic membrane for potential use in tissue engineering. <i>European Cells and Materials</i> , 2008 , 15, 88-99	4.3	482
175	Assessment of lower extremity peripheral arterial disease using a novel automated optical device. <i>Vascular and Endovascular Surgery</i> , 2007 , 41, 522-7	1.4	10
174	The role of established and emerging risk factors in peripheral vascular graft occlusion. <i>Expert Opinion on Pharmacotherapy</i> , 2007 , 8, 901-11	4	14
173	Role of insulin-like growth factor binding protein-4 in prevention of colon cancer. <i>World Journal of Surgical Oncology</i> , 2007 , 5, 128	3.4	11
172	Clinical potential of quantum dots. <i>Journal of Biomedicine and Biotechnology</i> , 2007 , 2007, 76087		64
171	Addressing thrombogenicity in vascular graft construction. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 82, 100-8	3.5	131
170	Role of stem cells in cancer therapy and cancer stem cells: a review. <i>Cancer Cell International</i> , 2007 , 7, 9	6.4	83
169	Increased apoptosis and decreased proliferation of colorectal cancer cells using insulin-like growth factor binding protein-4 gene delivered locally by gene transfer. <i>Colorectal Disease</i> , 2007 , 9, 625-31	2.1	16
168	Formation and role of plasma S-nitrosothiols in liver ischemia-reperfusion injury. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 882-92	7.8	21
167	Biomaterials and scaffold design: key to tissue-engineering cartilage. <i>Biotechnology and Applied Biochemistry</i> , 2007 , 46, 73-84	2.8	162
166	Stem cells and cancer: an overview. <i>Stem Cell Reviews and Reports</i> , 2007 , 3, 249-55	6.4	56
165	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
164	Biological applications of quantum dots. <i>Biomaterials</i> , 2007 , 28, 4717-32	15.6	843
163	Novel Electrohydrodynamic Printing of Nanocomposite Biopolymer Scaffolds. <i>Journal of Bioactive and Compatible Polymers</i> , 2007 , 22, 265-280	2	61
162	Optical techniques in the assessment of peripheral arterial disease. <i>Current Vascular Pharmacology</i> , 2007 , 5, 53-9	3.3	39
161	Vascular dysfunction during pregnancy in women with polycystic ovary syndrome. <i>Human Reproduction</i> , 2007 , 22, 1532-9	5.7	29
160	UV surface modification of a new nanocomposite polymer to improve cytocompatibility. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007 , 18, 453-68	3.5	25
159	Prospective assessment of lower-extremity peripheral arterial disease in diabetic patients using a novel automated optical device. <i>Angiology</i> , 2007 , 58, 579-85	2.1	22

158	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
157	Silsesquioxane nanocomposites as tissue implants. <i>Plastic and Reconstructive Surgery</i> , 2007 , 119, 1653-1662		84
156	Hind limb remote preconditioning of the liver: a role for nitric oxide and HO-1. <i>Transplantation</i> , 2007 , 83, 363-4	1.8	5
155	New vessels: Vascular tissue engineering. <i>Biochemist</i> , 2007 , 29, 12-15	0.5	
154	Insulin-like growth factor binding protein-4 gene therapy increases apoptosis by altering Bcl-2 and Bax proteins and decreases angiogenesis in colorectal cancer. <i>International Journal of Oncology</i> , 2007 , 30, 883-8	1	9
153	Flow behaviour of a POSS biopolymer solution. <i>Biorheology</i> , 2007 , 44, 265-72	1.7	7
152	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
151	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
150	Polyhedral Oligomeric Silsesquioxane Nanocomposites: The Next Generation Material for Biomedical Applications. <i>ChemInform</i> , 2006 , 37, no		1
149	Tissue engineering of blood vessels. <i>British Journal of Surgery</i> , 2006 , 93, 282-90	5.3	97
148	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
147	Incorporation of a lauric acid-conjugated GRGDS peptide directly into the matrix of a poly(carbonate-urea)urethane polymer for use in cardiovascular bypass graft applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 79, 606-17	5.4	21
146	Aortic function is compromised in a rat model of polycystic ovary syndrome. <i>Human Reproduction</i> , 2006 , 21, 651-6	5.7	13
145	Editorial [Pharmacological Modulation of Liver Ischemia - Reperfusion Injury Executive Editors: G.K. Glantzounis, D.P. Mikhailidis, A.M. Seifalian and B.R. Davidson]. <i>Current Pharmaceutical Design</i> , 2006 , 12, 2863-2865	3.3	1
144	The role of thiols in liver ischemia-reperfusion injury. <i>Current Pharmaceutical Design</i> , 2006 , 12, 2891-901	3.3	36
143	Critical parameter of burst pressure measurement in development of bypass grafts is highly dependent on methodology used. <i>Journal of Vascular Surgery</i> , 2006 , 44, 846-52	3.5	20
142	Tissue engineering of small intestine--current status. <i>Biomacromolecules</i> , 2006 , 7, 2701-9	6.9	34
141	Is there an alternative to systemic anticoagulation, as related to interventional biomedical devices?. <i>Expert Review of Medical Devices</i> , 2006 , 3, 245-61	3.5	21

140	The antithrombogenic potential of a polyhedral oligomeric silsesquioxane (POSS) nanocomposite. <i>Biomacromolecules</i> , 2006 , 7, 215-23	6.9	166
139	Vitreous cryopreservation maintains the viscoelastic property of human vascular grafts. <i>FASEB Journal</i> , 2006 , 20, 874-81	0.9	32
138	Pyrrolidine dithiocarbamate protects the small bowel from warm ischaemia/reperfusion injury of the intestine: the role of haem oxygenase. <i>Clinical Science</i> , 2006 , 111, 373-80	6.5	13
137	Quantitating therapeutic disruption of tumor blood flow with intravital video microscopy. <i>Cancer Research</i> , 2006 , 66, 11517-9	10.1	16
136	Biology of insulin-like growth factor binding protein-4 and its role in cancer (review) 2006 , 28, 1317		8
135	HER2 (ErbB2) receptors, a potential therapeutic target in squamous cell carcinoma of oesophagus. <i>British Journal of Cancer</i> , 2006 , 94, 1213-4; author reply 1214-5	8.7	5
134	The degradative resistance of polyhedral oligomeric silsesquioxane nanocore integrated polyurethanes: an in vitro study. <i>Biomaterials</i> , 2006 , 27, 1971-9	15.6	167
133	Polyhedral oligomeric silsesquioxane-polyurethane nanocomposite microvessels for an artificial capillary bed. <i>Biomaterials</i> , 2006 , 27, 4618-26	15.6	76
132	Review paper: principles and applications of surface analytical techniques at the vascular interface. <i>Journal of Biomaterials Applications</i> , 2006 , 21, 5-32	2.9	23
131	The effect of shear stress on human endothelial cells seeded on cylindrical viscoelastic conduits: an investigation of gene expression. <i>Biotechnology and Applied Biochemistry</i> , 2006 , 45, 119-30	2.8	13
130	The endothelialization of polyhedral oligomeric silsesquioxane nanocomposites: an in vitro study. <i>Cell Biochemistry and Biophysics</i> , 2006 , 45, 129-36	3.2	65
129	Statins and peripheral arterial disease: potential mechanisms and clinical benefits. <i>Annals of Vascular Surgery</i> , 2006 , 20, 696-705	1.7	38
128	Biology of insulin-like growth factor binding protein-4 and its role in cancer (review). <i>International Journal of Oncology</i> , 2006 , 28, 1317-25	1	33
127	Microvascular dysfunction in women with polycystic ovary syndrome. <i>Human Reproduction</i> , 2005 , 20, 3219-24	5.7	33
126	Novel approaches to the measurement of arterial blood flow from dynamic digital X-ray images. <i>IEEE Transactions on Medical Imaging</i> , 2005 , 24, 500-13	11.7	23
125	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
124	Cardiovascular tissue engineering: state of the art. <i>Pathologie Et Biologie</i> , 2005 , 53, 599-612		79
123	Polyhedral oligomeric silsesquioxane nanocomposites: the next generation material for biomedical applications. <i>Accounts of Chemical Research</i> , 2005 , 38, 879-84	24.3	368

122	A registration framework for the comparison of mammogram sequences. <i>IEEE Transactions on Medical Imaging</i> , 2005 , 24, 782-90	11.7	28
121	Effect of ischaemic preconditioning on hepatic oxygenation, microcirculation and function in a rat model of moderate hepatic steatosis. <i>Clinical Science</i> , 2005 , 108, 55-63	6.5	26
120	Measurement of critical lower limb tissue hypoxia by coupling chemical and optical techniques. <i>Clinical Science</i> , 2005 , 108, 159-65	6.5	12
119	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
118	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
117	Development of an RNA isolation procedure for the characterisation of human endothelial cell interactions with polyurethane cardiovascular bypass grafts. <i>Biomaterials</i> , 2005 , 26, 3987-93	15.6	9
116	Interactions between endothelial cells and a poly(carbonate-silsesquioxane-bridge-urea)urethane. <i>Biomaterials</i> , 2005 , 26, 6271-9	15.6	82
115	Advancing cartilage tissue engineering: the application of stem cell technology. <i>Current Opinion in Biotechnology</i> , 2005 , 16, 503-9	11.4	139
114	Artificial nerve conduits in peripheral-nerve repair. <i>Biotechnology and Applied Biochemistry</i> , 2005 , 41, 193-200	2.8	51
113	Protective effects of ischemic preconditioning on the intestinal mucosal microcirculation following ischemia-reperfusion of the intestine. <i>Microcirculation</i> , 2005 , 12, 615-25	2.9	29
112	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
111	Advancing vascular tissue engineering: the role of stem cell technology. <i>Trends in Biotechnology</i> , 2005 , 23, 461-7	15.1	61
110	Malignant ascites increases the antioxidant ability of human ovarian (SKOV-3) and gastric adenocarcinoma (KATO-III) cells. <i>Gynecologic Oncology</i> , 2005 , 96, 430-8	4.9	14
109	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
108	Ischaemic preconditioning improves microvascular perfusion and oxygenation following reperfusion injury of the intestine. <i>British Journal of Surgery</i> , 2005 , 92, 1169-76	5.3	31
107	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
106	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
105	Nitric oxide synthase distribution and expression with ischemic preconditioning of the rat liver. <i>FASEB Journal</i> , 2005 , 19, 1155-7	0.9	44

104	Endothelial progenitor cells and their potential clinical applications in peripheral arterial disease. <i>Endothelium: Journal of Endothelial Cell Research</i> , 2005 , 12, 243-50		17
103	Pyrrolidine dithiocarbamate reduces ischemia-reperfusion injury of the small intestine. <i>World Journal of Gastroenterology</i> , 2005 , 11, 7308-13	5.6	27
102	Single stage cell seeding of small diameter prosthetic cardiovascular grafts. <i>Clinical Hemorheology and Microcirculation</i> , 2005 , 33, 209-26	2.5	20
101	Interfacial adsorption of fibrinogen and its inhibition by RGD peptide: a combined physical study. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S2483-S2491	1.8	31
100	Effect of inspired oxygen on portal and hepatic oxygenation: effective arterialization of portal blood by hyperoxia. <i>Cell Transplantation</i> , 2004 , 13, 801-8	4	40
99	Polycystic ovary syndrome, diabetes and cardiovascular disease: risks and risk factors. <i>Journal of Obstetrics and Gynaecology</i> , 2004 , 24, 613-21	1.3	37
98	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
97	Engineering of bypass conduits to improve patency. <i>Cell Proliferation</i> , 2004 , 37, 351-66	7.9	43
96	Cellular engineering of conduits for coronary and lower limb bypass surgery: role of cell attachment peptides and pre-conditioning in optimising smooth muscle cells (SMC) adherence to compliant poly(carbonate-urea)urethane (MyoLink) scaffolds. <i>European Journal of Vascular and Endovascular Surgery</i> , 2004 , 27, 608-16	2.3	25
95	Ischemia-reperfusion injury of the intestine and protective strategies against injury. <i>Digestive Diseases and Sciences</i> , 2004 , 49, 1359-77	4	478
94	Role of cyclooxygenase-2 in the angiogenesis of colorectal cancer. <i>International Journal of Colorectal Disease</i> , 2004 , 19, 1-11	3	28
93	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
92	Induction of adhesion molecule expression in liver ischaemia-reperfusion injury is associated with impaired hepatic parenchymal microcirculation. <i>British Journal of Surgery</i> , 2004 , 91, 1034-9	5.3	8
91	Continuous infusion of N-acetylcysteine reduces liver warm ischaemia-reperfusion injury. <i>British Journal of Surgery</i> , 2004 , 91, 1330-9	5.3	49
90	The effect of image colour distortion on evaluation of donor liver suitability for transplantation. <i>Computers in Biology and Medicine</i> , 2004 , 34, 615-32	7	3
89	Letter to the editor The Surgeon - Volume 2, Issue 5. <i>Journal of the Royal College of Surgeons of Edinburgh</i> , 2004 , 2, 302	2.5	
88	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
87	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

86	A mammographic image analysis method to detect and measure changes in breast density. <i>European Journal of Radiology</i> , 2004 , 52, 276-82	4.7	26
85	Near-infrared spectroscopic assessment of mitochondrial oxygenation status--comparison during normothermic extracorporeal liver perfusion by buffer only or buffer fortified with washed red blood cells: an experimental study. <i>Transplantation Proceedings</i> , 2004 , 36, 1265-7	1.1	2
84	A model to study total hepatic ischemia-reperfusion injury. <i>Transplantation Proceedings</i> , 2004 , 36, 2586-9	1.1	25
83	A comparison of bile composition from heart-beating and non-heart-beating rabbit organ donors during normothermic extracorporeal liver perfusion: experimental evaluation using proton magnetic resonance spectroscopy. <i>Transplantation Proceedings</i> , 2004 , 36, 2914-6	1.1	8
82	Intima-media thickness of elastic and muscular arteries of young women with polycystic ovaries. <i>Atherosclerosis</i> , 2004 , 175, 353-9	3.1	72
81	A real-time pointer to a preoperative surgical planning index block of ultrasound images for image guided surgery 2004 ,		1
80	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
79	Haemostatic effects of laser tissue solder as a reinforcement to anastomoses with PTFE grafts 2003 , 4949, 235		
78	Magnetic beads (Dynabead) toxicity to endothelial cells at high bead concentration: implication for tissue engineering of vascular prosthesis. <i>Cell Biology and Toxicology</i> , 2003 , 19, 265-72	7.4	40
77	Extraction of cells for single-stage seeding of vascular-bypass grafts. <i>Biotechnology and Applied Biochemistry</i> , 2003 , 38, 35-41	2.8	18
76	Synthesis and evaluation of amphiphilic RGD derivatives: uses for solvent casting in polymers and tissue engineering applications. <i>Medical and Biological Engineering and Computing</i> , 2003 , 41, 740-5	3.1	12
75	Differentiation of primary and secondary Raynaud's disease by carotid arterial stiffness. <i>European Journal of Vascular and Endovascular Surgery</i> , 2003 , 25, 336-41	2.3	24
74	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
73	Surface functionalization and grafting of heparin and/or RGD by an aqueous-based process to a poly(carbonate-urea)urethane cardiovascular graft for cellular engineering applications. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 66, 688-97		28
72	In vivo biostability of a poly(carbonate-urea)urethane graft. <i>Biomaterials</i> , 2003 , 24, 2549-57	15.6	122
71	Direct measurement of hepatic tissue hypoxia by using a novel tcpO ₂ /pCO ₂ monitoring system in comparison with near-infrared spectroscopy. <i>Liver International</i> , 2003 , 23, 163-70	7.9	15
70	Impairment of hepatic microcirculation in fatty liver. <i>Microcirculation</i> , 2003 , 10, 447-56	2.9	147
69	The influence of peripheral vascular disease on the carotid and femoral wall mechanics in subjects with abdominal aortic aneurysm. <i>Journal of Vascular Surgery</i> , 2003 , 37, 403-9	3.5	7

68	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
67	Mediastinal fat: a source of cells for tissue engineering of coronary artery bypass grafts. <i>Microvascular Research</i> , 2003 , 65, 61-4	3.7	7
66	Tissue engineering therapy for cardiovascular diseases. <i>Circulation Research</i> , 2003 , 93, e1	15.7	
65	Assessing the role of quantitative analysis of mammograms in describing breast density changes in women using HRT 2003 , 547-551		1
64	Impairment of Hepatic Microcirculation in Fatty Liver 2003 , 10, 447		1
63	The effect of graded systemic hypoxaemia on hepatic tissue oxygenation. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 540, 317-23	3.6	2
62	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
61	Arterial elastic properties and cardiovascular risk/event. <i>European Journal of Vascular and Endovascular Surgery</i> , 2002 , 24, 383-97	2.3	60
60	Performance of a polyurethane vascular prosthesis carrying a dipyridamole (Persantin) coating on its luminal surface. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 61, 337-8		9
59	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
58	Impregnation of the the polymeric graft with adhesives molecules, typically oligopeptides or glycoprotein improves retention. <i>Artificial Organs</i> , 2002 , 26, 209-10; author reply 210-1	2.6	10
57	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
56	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
55	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
54	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
53	Polycystic ovaries. <i>British Journal of Radiology</i> , 2002 , 75, 9-16	3.4	37
52	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
51	Impaired carotid viscoelastic properties in women with polycystic ovaries. <i>Circulation</i> , 2002 , 106, 81-5	16.7	61

50	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
49	Effects of hepatic ischaemia/reperfusion injury in a rabbit model of Indocyanine Green clearance. <i>Clinical Science</i> , 2002 , 102, 579-586	6.5	6
48	Effects of hepatic ischaemia/reperfusion injury in a rabbit model of Indocyanine Green clearance. <i>Clinical Science</i> , 2002 , 102, 579	6.5	1
47	In-vitro validation of a novel model-based approach to the measurement of arterial blood flow waveforms from dynamic digital x-ray images 2002 , 4683, 286		2
46	Impaired carotid and femoral viscoelastic properties and elevated intima-media thickness in peripheral vascular disease. <i>Atherosclerosis</i> , 2002 , 164, 113-20	3.1	35
45	Regarding "Isolation of endothelial cells and their progenitor cells from human peripheral blood". <i>Journal of Vascular Surgery</i> , 2002 , 35, 827; author reply 827-8	3.5	4
44	New prostheses for use in bypass grafts with special emphasis on polyurethanes. <i>Vascular</i> , 2002 , 10, 191-7		110
43	Development of a hybrid cardiovascular graft using a tissue engineering approach. <i>FASEB Journal</i> , 2002 , 16, 791-6	0.9	109
42	In vitro stability of a novel compliant poly(carbonate-urea)urethane to oxidative and hydrolytic stress 2002 , 59, 207		2
41	Effects of hepatic ischaemia/reperfusion injury in a rabbit model of Indocyanine Green clearance. <i>Clinical Science</i> , 2002 , 102, 579-86	6.5	1
40	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
39	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
38	Assessment of hepatic ischaemia reperfusion injury by measuring intracellular tissue oxygenation using near infrared spectroscopy. <i>Liver</i> , 2001 , 21, 37-44		39
37	A new technique for measuring the cell growth and metabolism of endothelial cells seeded on vascular prostheses. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 55, 637-44		25
36	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
35	Effect of graded hypoxia on the rat hepatic tissue oxygenation and energy metabolism monitored by near-infrared and ³¹ P nuclear magnetic resonance spectroscopy. <i>FASEB Journal</i> , 2001 , 15, 2642-8	0.9	32
34	Hepatic indocyanine green uptake and excretion in a rabbit model of steatosis. <i>European Surgical Research</i> , 2001 , 33, 193-201	1.1	21
33	The mechanical behavior of vascular grafts: a review. <i>Journal of Biomaterials Applications</i> , 2001 , 15, 241-289		296

32	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
31	In-Vitro Validation of a Novel Model-Based Approach to the Measurement of Arterial Blood Flow Waveforms from Dynamic Digital X-ray Images. <i>Lecture Notes in Computer Science</i> , 2001 , 291-300	0.9	2
30	Effect of liver blood flow and function on hepatic indocyanine green clearance measured directly in a cirrhotic animal model. <i>British Journal of Surgery</i> , 2000 , 87, 568-74	5.3	26
29	In vivo evaluation of an implantable portal pump system for augmenting liver perfusion. <i>British Journal of Surgery</i> , 2000 , 87, 1024-9	5.3	3
28	Compliance properties of conduits used in vascular reconstruction. <i>British Journal of Surgery</i> , 2000 , 87, 1516-24	5.3	180
27	Measurement of hepatic tissue hypoxia using near infrared spectroscopy: comparison with hepatic vein oxygen partial pressure. <i>European Surgical Research</i> , 2000 , 32, 207-14	1.1	27
26	Validation of an optical flow algorithm to measure blood flow waveforms in arteries using dynamic digital x-ray images 2000 ,		6
25	Non-invasive measurement of hepatic oxygenation by an oxygen electrode in human orthotopic liver transplantation. <i>Medical Engineering and Physics</i> , 2000 , 22, 371-7	2.4	9
24	Optimal endothelialisation of a new compliant poly(carbonate-urea)urethane vascular graft with effect of physiological shear stress. <i>European Journal of Vascular and Endovascular Surgery</i> , 2000 , 20, 342-52	2.3	35
23	Development and evaluation of an ideal flow circuit: assessing the dynamic behavior of endothelial cell seeded grafts. <i>Journal of Artificial Organs</i> , 2000 , 3, 16-24	1.8	14
22	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
21	The effect of mechanically enhancing portal venous inflow on hepatic oxygenation, microcirculation, and function in a rabbit model with extensive hepatic fibrosis. <i>Hepatology</i> , 1999 , 30, 46-52	11.2	13
20	Changes in tissue oxygenation of the porcine liver measured by near-infrared spectroscopy. <i>Liver Transplantation</i> , 1999 , 5, 219-26		23
19	Effect of graded hypoxia on hepatic tissue oxygenation measured by near infrared spectroscopy. <i>Journal of Hepatology</i> , 1999 , 31, 71-6	13.4	31
18	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
17	The effect of graded steatosis on flow in the hepatic parenchymal microcirculation. <i>Transplantation</i> , 1999 , 68, 780-4	1.8	129
16	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
15	A note on the compartmental analysis and related issues in laser Doppler flowmetry. <i>IEEE Transactions on Biomedical Engineering</i> , 1998 , 45, 534-7	5	3

14	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
13	Distribution of breast skin blood flow in patients with breast cancer. <i>Breast</i> , 1998 , 7, 201-205	3.6	3
12	In vivo demonstration of impaired microcirculation in steatotic human liver grafts. <i>Liver Transplantation</i> , 1998 , 4, 71-7		109
11	Morphological and hemodynamic assessments of carotid stenosis using quantitative digital subtraction angiography. <i>Stroke</i> , 1996 , 27, 1672-8	6.7	6
10	Blood flow measurements using 3D distance-concentration functions derived from digital x-ray angiograms. <i>Developments in Cardiovascular Medicine</i> , 1996 , 425-442		5
9	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
8	Validation of volume blood flow measurements using three-dimensional distance-concentration functions derived from digital x-ray angiograms. <i>Investigative Radiology</i> , 1994 , 29, 434-42	10.1	15
7	Superior mesenteric artery blood flow in man measured with intra-arterial Doppler catheters: effect of octreotide. <i>Journal of Hepatology</i> , 1993 , 17, 20-7	13.4	35
6	Laser Doppler imaging for the assessment of liver perfusion during transplantation. <i>European Journal of Gastroenterology and Hepatology</i> , 1993 , 5, 479-482	2.2	9
5	Validation of a quantitative radiographic technique to estimate pulsatile blood flow waveforms using digital subtraction angiographic data. <i>Journal of Biomedical Engineering</i> , 1991 , 13, 225-33		21
4	Measurement of liver blood flow: a review. <i>HPB Surgery</i> , 1991 , 4, 171-86		20
3	A new algorithm for deriving pulsatile blood flow waveforms tested using stimulated dynamic angiographic data. <i>Neuroradiology</i> , 1989 , 31, 263-9	3.2	29
2	Insulin-like growth factor binding protein-4 gene therapy increases apoptosis by altering Bcl-2 and Bax proteins and decreases angiogenesis in colorectal cancer		3
1	Heart Valves, Polymeric: Biocompatibility3713-3721		2