

Alexander Marcus Seifalian

List of Publications by Year in descending order

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509
papers

30,434
citations

5896

81
h-index

8866

145
g-index

528
all docs

528
docs citations

528
times ranked

35184
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanosilver as a new generation of nanoparticle in biomedical applications. Trends in Biotechnology, 2010, 28, 580-588.	9.3	1,213
2	Liposomes and nanoparticles: nanosized vehicles for drug delivery in cancer. Trends in Pharmacological Sciences, 2009, 30, 592-599.	8.7	1,097
3	Biological applications of quantum dots. Biomaterials, 2007, 28, 4717-4732.	11.4	952
4	Properties of the amniotic membrane for potential use in tissue engineering. , 2008, 7, 88-99.		604
5	Conductive Polymers: Opportunities and Challenges in Biomedical Applications. Chemical Reviews, 2018, 118, 6766-6843.	47.7	579
6	Toxicology and clinical potential of nanoparticles. Nano Today, 2011, 6, 585-607.	11.9	558
7	REVIEW: Ischemiaâ€“Reperfusion Injury of the Intestine and Protective Strategies Against Injury. Digestive Diseases and Sciences, 2004, 49, 1359-1377.	2.3	552
8	Current status of prosthetic bypass grafts: A review. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 74B, 570-581.	3.4	463
9	Stem-cell-based, tissue engineered tracheal replacement in a child: a 2-year follow-up study. Lancet, The, 2012, 380, 994-1000.	13.7	421
10	Polyhedral Oligomeric Silsesquioxane Nanocomposites:â€“ The Next Generation Material for Biomedical Applications. Accounts of Chemical Research, 2005, 38, 879-884.	15.6	398
11	The Mechanical Behavior of Vascular Grafts: A Review. Journal of Biomaterials Applications, 2001, 15, 241-278.	2.4	342
12	The roles of tissue engineering and vascularisation in the development of micro-vascular networks: a review. Biomaterials, 2005, 26, 1857-1875.	11.4	341
13	Biofunctionalization of Biomaterials for Accelerated in Situ Endothelialization: A Review. Biomacromolecules, 2008, 9, 2969-2979.	5.4	319
14	Remote Ischemic Preconditioning: A Novel Protective Method From Ischemia Reperfusion Injuryâ€“A Review. Journal of Surgical Research, 2008, 150, 304-330.	1.6	302
15	Liver ischemia/reperfusion injury: Processes in inflammatory networks-A review. Liver Transplantation, 2010, 16, 1016-1032.	2.4	296
16	The Mechanical Properties of Infrainguinal Vascular Bypass Grafts: Their Role in Influencing Patency. European Journal of Vascular and Endovascular Surgery, 2006, 31, 627-636.	1.5	259
17	A Nanocage for Nanomedicine: Polyhedral Oligomeric Silsesquioxane (POSS). Macromolecular Rapid Communications, 2011, 32, 1032-1046.	3.9	246
18	Skin regeneration scaffolds: a multimodal bottom-up approach. Trends in Biotechnology, 2012, 30, 638-648.	9.3	242

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19	A new era of cancer treatment: carbon nanotubes as drug delivery tools. <i>International Journal of Nanomedicine</i> , 2011, 6, 2963.	6.7	219
20	Compliance properties of conduits used in vascular reconstruction. <i>British Journal of Surgery</i> , 2002, 87, 1516-1524.	0.3	218
21	Improving the Clinical Patency of Prosthetic Vascular and Coronary Bypass Grafts: The Role of Seeding and Tissue Engineering. <i>Artificial Organs</i> , 2002, 26, 307-320.	1.9	204
22	Exosomes as nano-theranostic delivery platforms for gene therapy. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 357-367.	13.7	196
23	Polymeric heart valves: new materials, emerging hopes. <i>Trends in Biotechnology</i> , 2009, 27, 359-367.	9.3	194
24	The contemporary role of antioxidant therapy in attenuating liver ischemia-reperfusion injury: A review. <i>Liver Transplantation</i> , 2005, 11, 1031-1047.	2.4	193
25	A rat decellularized small bowel scaffold that preserves villus-crypt architecture for intestinal regeneration. <i>Biomaterials</i> , 2012, 33, 3401-3410.	11.4	188
26	Biomaterials and scaffold design: key to tissue-engineering cartilage. <i>Biotechnology and Applied Biochemistry</i> , 2007, 46, 73.	3.1	186
27	Oxygen-Generating Biomaterials: A New, Viable Paradigm for Tissue Engineering?. <i>Trends in Biotechnology</i> , 2016, 34, 1010-1021.	9.3	186
28	The Antithrombogenic Potential of a Polyhedral Oligomeric Silsesquioxane (POSS) Nanocomposite. <i>Biomacromolecules</i> , 2006, 7, 215-223.	5.4	185
29	Topical haemostatic agents. <i>British Journal of Surgery</i> , 2008, 95, 1197-1225.	0.3	184
30	The degradative resistance of polyhedral oligomeric silsesquioxane nanocore integrated polyurethanes: An in vitro study. <i>Biomaterials</i> , 2006, 27, 1971-1979.	11.4	180
31	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, 14360-14365.	7.1	176
32	Impairment of Hepatic Microcirculation in Fatty Liver. <i>Microcirculation</i> , 2003, 10, 447-456.	1.8	170
33	Nitric Oxide: A Guardian for Vascular Grafts?. <i>Chemical Reviews</i> , 2011, 111, 5742-5767.	47.7	157
34	Advancing cartilage tissue engineering: the application of stem cell technology. <i>Current Opinion in Biotechnology</i> , 2005, 16, 503-509.	6.6	156
35	Biocompatibility and nanostructured materials: applications in nanomedicine. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2017, 45, 833-842.	2.8	155
36	Fluorescence nanoparticles "quantum dots" as drug delivery system and their toxicity: a review. <i>Journal of Drug Targeting</i> , 2011, 19, 475-486.	4.4	153

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37	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, 528-538.	3.8	148
38	Anticoagulant and Antiplatelet Agents: Their Clinical and Device Application(s) Together with Usages to Engineer Surfaces. <i>Biomacromolecules</i> , 2004, 5, 798-813.	5.4	148
39	A novel nanocomposite polymer for development of synthetic heart valve leaflets. <i>Acta Biomaterialia</i> , 2009, 5, 2409-2417.	8.3	148
40	Quantum dots and their potential biomedical applications in photosensitization for photodynamic therapy. <i>Nanomedicine</i> , 2009, 4, 353-363.	3.3	148
41	THE EFFECT OF GRADED STEATOSIS ON FLOW IN THE HEPATIC PARENCHYMAL MICROCIRCULATION ^{1,2} . <i>Transplantation</i> , 1999, 68, 780-784.	1.0	147
42	Addressing thrombogenicity in vascular graft construction. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 82B, 100-108.	3.4	146
43	Nitric Oxide Donors for Cardiovascular Implant Applications. <i>Small</i> , 2013, 9, 22-35.	10.0	146
44	Modern surgical management of peripheral nerve gap. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2010, 63, 1941-1948.	1.0	141
45	Oral microbial biofilms: an update. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2019, 38, 2005-2019.	2.9	141
46	Advances in regenerative therapies for spinal cord injury: a biomaterials approach. <i>Neural Regeneration Research</i> , 2015, 10, 726.	3.0	134
47	In vivo biostability of a poly(carbonate-urea)urethane graft. <i>Biomaterials</i> , 2003, 24, 2549-2557.	11.4	133
48	Carbon nanotubes leading the way forward in new generation 3D tissue engineering. <i>Biotechnology Advances</i> , 2014, 32, 1000-1014.	11.7	131
49	The application of exosomes as a nanoscale cancer vaccine. <i>International Journal of Nanomedicine</i> , 2010, 5, 889.	6.7	128
50	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, 327-336.	2.8	127
51	New prostheses for use in bypass grafts with special emphasis on polyurethanes. <i>Vascular</i> , 2002, 10, 191-197.	0.5	126
52	In vivo demonstration of impaired microcirculation in steatotic human liver grafts. <i>Liver Transplantation</i> , 1998, 4, 71-77.	1.8	122
53	Development of a hybrid cardiovascular graft using a tissue engineering approach ¹ . <i>FASEB Journal</i> , 2002, 16, 791-796.	0.5	122
54	The regenerative role of adipose-derived stem cells (ADSC) in plastic and reconstructive surgery. <i>International Wound Journal</i> , 2017, 14, 112-124.	2.9	121

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55	Protection of the Liver by Ischemic Preconditioning: A Review of Mechanisms and Clinical Applications. <i>Digestive Surgery</i> , 2003, 20, 383-396.	1.2	115
56	Semiconductor quantum dots as fluorescent probes for <i>in vitro</i> and <i>in vivo</i> bio-molecular and cellular imaging. <i>Nano Reviews</i> , 2010, 1, 5161.	3.7	113
57	Tissue engineering of blood vessels. <i>British Journal of Surgery</i> , 2006, 93, 282-290.	0.3	111
58	Protocols and Mechanisms for Remote Ischemic Preconditioning: A Novel Method for Reducing Ischemia Reperfusion Injury. <i>Transplantation</i> , 2007, 84, 445-458.	1.0	111
59	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, 203-220.	2.2	110
60	Role of stem cells in cancer therapy and cancer stem cells: a review. <i>Cancer Cell International</i> , 2007, 7, 9.	4.1	110
61	Quantum dots and carbon nanotubes in oncology: a review on emerging theranostic applications in nanomedicine. <i>Nanomedicine</i> , 2011, 6, 1101-1114.	3.3	106
62	Nerve Conduits for Peripheral Nerve Surgery. <i>Plastic and Reconstructive Surgery</i> , 2014, 133, 1420-1430.	1.4	106
63	Adipose-derived stem cells for clinical applications: a review. <i>Cell Proliferation</i> , 2011, 44, 86-98.	5.3	104
64	The use of animal models in developing the discipline of cardiovascular tissue engineering: a review. <i>Biomaterials</i> , 2004, 25, 1627-1637.	11.4	102
65	Tissue Engineering of Vascular Bypass Grafts: Role of Endothelial Cell Extraction. <i>European Journal of Vascular and Endovascular Surgery</i> , 2001, 21, 193-201.	1.5	98
66	Silsesquioxane Nanocomposites as Tissue Implants. <i>Plastic and Reconstructive Surgery</i> , 2007, 119, 1653-1662.	1.4	98
67	Will Nanotechnology Bring New Hope for Gene Delivery?. <i>Trends in Biotechnology</i> , 2017, 35, 434-451.	9.3	97
68	Silk fibroin/amniotic membrane 3D bi-layered artificial skin. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 035003.	3.3	97
69	Surface Modification of Biomaterials: A Quest for Blood Compatibility. <i>International Journal of Biomaterials</i> , 2012, 2012, 1-8.	2.4	94
70	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, 287-295.	1.5	93
71	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, 65-69.	0.9	91
72	Interactions between endothelial cells and a poly(carbonate-silsesquioxane-bridge-urea)urethane. <i>Biomaterials</i> , 2005, 26, 6271-6279.	11.4	91

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73	Remote ischaemic preconditioning of the hind limb reduces experimental liver warm ischaemiaâ€“reperfusion injury. <i>British Journal of Surgery</i> , 2006, 93, 762-768.	0.3	91
74	The anti-calcification potential of a silsesquioxane nanocomposite polymer under in vitro conditions: Potential material for synthetic leaflet heart valveâ€“t. <i>Acta Biomaterialia</i> , 2010, 6, 4249-4260.	8.3	90
75	Control of stem cell fate by engineering their micro and nanoenvironment. <i>World Journal of Stem Cells</i> , 2015, 7, 37.	2.8	90
76	Apoptosis and colorectal cancer: implications for therapy. <i>Trends in Molecular Medicine</i> , 2009, 15, 225-233.	6.7	89
77	Osteogenic potential of stem cellsâ€“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.	3.4	89
78	Cardiovascular tissue engineering: state of the art. <i>Pathologie Et Biologie</i> , 2005, 53, 599-612.	2.2	88
79	Electroconductive polyurethane/graphene nanocomposite for biomedical applications. <i>Composites Part B: Engineering</i> , 2019, 168, 421-431.	12.0	87
80	Current developments and future prospects for heart valve replacement therapy. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 88B, 290-303.	3.4	86
81	Small calibre polyhedral oligomeric silsesquioxane nanocomposite cardiovascular grafts: Influence of porosity on the structure, haemocompatibility and mechanical properties. <i>Acta Biomaterialia</i> , 2011, 7, 3857-3867.	8.3	86
82	Manufacturing and hydrodynamic assessment of a novel aortic valve made of a new nanocomposite polymer. <i>Journal of Biomechanics</i> , 2012, 45, 1205-1211.	2.1	85
83	Exosomes as Immunotheranostic Nanoparticles. <i>Clinical Therapeutics</i> , 2014, 36, 820-829.	2.5	84
84	Polyhedral oligomeric silsequioxaneâ€“polyurethane nanocomposite microvessels for an artificial capillary bed. <i>Biomaterials</i> , 2006, 27, 4618-4626.	11.4	82
85	Tissue Engineering. <i>Plastic and Reconstructive Surgery</i> , 2012, 129, 1123-1137.	1.4	82
86	The Effect of Short-Term Treatment with Simvastatin on Renal Function in Patients with Peripheral Arterial Disease. <i>Angiology</i> , 2004, 55, 53-62.	1.8	81
87	Shear-stress preconditioning and tissue-engineering-based paradigms for generating arterial substitutes. <i>Biotechnology and Applied Biochemistry</i> , 2004, 39, 151.	3.1	81
88	Intima-media thickness of elastic and muscular arteries of young women with polycystic ovaries. <i>Atherosclerosis</i> , 2004, 175, 353-359.	0.8	81
89	Stem cell tracking using iron oxide nanoparticles. <i>International Journal of Nanomedicine</i> , 2014, 9, 1641.	6.7	81
90	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.	8.0	81

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91	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, 609-618.	2.8	80
92	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, 207-218.	3.1	78
93	Clinical Potential of Quantum Dots. <i>Journal of Biomedicine and Biotechnology</i> , 2007, 2007, 1-10.	3.0	78
94	Tissue-Engineered Heart Valve: Future of Cardiac Surgery. <i>World Journal of Surgery</i> , 2012, 36, 1581-1591.	1.6	77
95	Personalized development of human organs using 3D printing technology. <i>Medical Hypotheses</i> , 2016, 87, 30-33.	1.5	77
96	The Endothelialization of Polyhedral Oligomeric Silsesquioxane Nanocomposites: An In Vitro Study. <i>Cell Biochemistry and Biophysics</i> , 2006, 45, 129-136.	1.8	76
97	Evolution of covered stents in the contemporary era: clinical application, materials and manufacturing strategies using nanotechnology. <i>Biotechnology Advances</i> , 2013, 31, 524-542.	11.7	76
98	The nitric oxide pathway – evidence and mechanisms for protection against liver ischaemia reperfusion injury. <i>Liver International</i> , 2012, 32, 531-543.	3.9	75
99	Trachea transplantation: from laboratory to patient. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 357-367.	2.7	75
100	Optimization of chondrocyte isolation and characterization for large-scale cartilage tissue engineering. <i>Journal of Surgical Research</i> , 2013, 181, 41-48.	1.6	74
101	Arterial Elastic Properties and Cardiovascular Risk/Event. <i>European Journal of Vascular and Endovascular Surgery</i> , 2002, 24, 383-397.	1.5	72
102	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, 918-926.	7.6	72
103	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, 358-364.	1.5	71
104	Advances in peripheral nervous system regenerative therapeutic strategies: A biomaterials approach. <i>Materials Science and Engineering C</i> , 2016, 65, 425-432.	7.3	71
105	Impaired Carotid Viscoelastic Properties in Women With Polycystic Ovaries. <i>Circulation</i> , 2002, 106, 81-85.	1.6	70
106	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.	1.5	69
107	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.	5.4	68
108	Bacteriophage Based Biosensors: Trends, Outcomes and Challenges. <i>Nanomaterials</i> , 2020, 10, 501.	4.1	68

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109	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, 673-680.	4.6	67
110	Targeted Drug Delivery Based on Gold Nanoparticle Derivatives. <i>Current Pharmaceutical Design</i> , 2017, 23, 2918-2929.	1.9	67
111	In vivo femoropopliteal arterial wall compliance in subjects with and without lower limb vascular disease. <i>Journal of Vascular Surgery</i> , 1999, 30, 936-945.	1.1	66
112	Experimental study of liver dysfunction evaluated by direct indocyanine green clearance using near infrared spectroscopy. <i>British Journal of Surgery</i> , 2002, 86, 1005-1011.	0.3	66
113	Cardiovascular application of polyhedral oligomeric silsesquioxane nanomaterials: a glimpse into prospective horizons. <i>International Journal of Nanomedicine</i> , 2011, 6, 775.	6.7	66
114	Role of prosthetic conduits in coronary artery bypass grafting. <i>European Journal of Cardio-thoracic Surgery</i> , 2011, 40, 394-8.	1.4	66
115	The performance of a small-calibre graft for vascular reconstructions in a senescent sheep model. <i>Biomaterials</i> , 2014, 35, 9033-9040.	11.4	66
116	The Potential Application of Green-Synthesized Metal Nanoparticles in Dentistry: A Comprehensive Review. <i>Bioinorganic Chemistry and Applications</i> , 2022, 2022, 1-27.	4.1	66
117	Advancing vascular tissue engineering: the role of stem cell technology. <i>Trends in Biotechnology</i> , 2005, 23, 461-467.	9.3	65
118	Current Trends in the Application of Nanoparticles in Drug Delivery. <i>Current Medicinal Chemistry</i> , 2011, 18, 1067-1078.	2.4	65
119	Toxicology of chemically modified graphene-based materials for medical application. <i>Archives of Toxicology</i> , 2014, 88, 1987-2012.	4.2	65
120	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, 115-121.	5.3	65
121	Novel Electrohydrodynamic Printing of Nanocomposite Biopolymer Scaffolds. <i>Journal of Bioactive and Compatible Polymers</i> , 2007, 22, 265-280.	2.1	64
122	Design and development of nanocomposite scaffolds for auricular reconstruction. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 235-246.	3.3	64
123	In situ Endothelialization: Bioengineering Considerations to Translation. <i>Small</i> , 2015, 11, 6248-6264.	10.0	64
124	Scarring, stem cells, scaffolds and skin repair. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 649-668.	2.7	64
125	Graphene Oxide: Opportunities and Challenges in Biomedicine. <i>Nanomaterials</i> , 2021, 11, 1083.	4.1	64
126	Recent advances in artificial nerve conduit design: Strategies for the delivery of luminal fillers. <i>Journal of Controlled Release</i> , 2011, 156, 2-10.	9.9	63

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127	Three-dimensional biomaterial degradation – Material choice, design and extrinsic factor considerations. <i>Biotechnology Advances</i> , 2014, 32, 984-999.	11.7	62
128	Mechanism of Anosmia Caused by Symptoms of COVID-19 and Emerging Treatments. <i>ACS Chemical Neuroscience</i> , 2021, 12, 3795-3805.	3.5	62
129	Emerging treatment strategies in wound care. <i>International Wound Journal</i> , 2022, 19, 1934-1954.	2.9	61
130	Inception to actualization: Next generation coronary stent coatings incorporating nanotechnology. <i>Journal of Biotechnology</i> , 2013, 164, 151-170.	3.8	60
131	Endometrial stem cells in regenerative medicine. <i>Journal of Biological Engineering</i> , 2014, 8, 20.	4.7	60
132	Polyurethane-Polycaprolactone Blend Patches: Scaffold Characterization and Cardiomyoblast Adhesion, Proliferation, and Function. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 4299-4310.	5.2	60
133	Stem Cells and Cancer: An Overview. <i>Stem Cell Reviews and Reports</i> , 2007, 3, 249-255.	5.6	59
134	Conjugation of quantum dots on carbon nanotubes for medical diagnosis and treatment. <i>International Journal of Nanomedicine</i> , 2013, 8, 941.	6.7	59
135	Fabrication and <i>in vivo</i> 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, 2001-2010.	4.0	59
136	Organic nanocarriers for cancer drug delivery. <i>Current Opinion in Pharmacology</i> , 2012, 12, 414-419.	3.5	58
137	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, 782-792.	10.0	58
138	In vivo toxicological evaluation of graphene oxide nanoplatelets for clinical application. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 4757-4769.	6.7	58
139	Development of a new lacrimal drainage conduit using POSS nanocomposite. <i>Biotechnology and Applied Biochemistry</i> , 2011, 58, 363-370.	3.1	57
140	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, 279-289.	3.3	57
141	Obesity and Arterial Compliance Alterations. <i>Current Vascular Pharmacology</i> , 2010, 8, 155-168.	1.7	56
142	Role of endothelial nitric oxide synthase in remote ischemic preconditioning of the mouse liver. <i>Liver Transplantation</i> , 2011, 17, 610-619.	2.4	56
143	Hearts beating through decellularized scaffolds: whole-organ engineering for cardiac regeneration and transplantation. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 705-715.	9.0	56
144	Chemical group-dependent plasma polymerisation preferentially directs adipose stem cell differentiation towards osteogenic or chondrogenic lineages. <i>Acta Biomaterialia</i> , 2017, 50, 450-461.	8.3	56

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145	Nanoparticles in wound healing from hope to promise from promise to routine. <i>Frontiers in Bioscience - Landmark</i> , 2018, 23, 1038-1059.	3.0	56
146	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.	3.5	56
147	Continuous infusion of N-acetylcysteine reduces liver warm ischaemia-reperfusion injury. <i>British Journal of Surgery</i> , 2004, 91, 1330-1339.	0.3	55
148	Artificial nerve conduits in peripheral nerve repair. <i>Biotechnology and Applied Biochemistry</i> , 2005, 41, 193-200.	3.1	55
149	A Review of Methods Currently Used for Assessment of In vivo Endothelial Function. <i>European Journal of Vascular and Endovascular Surgery</i> , 2005, 29, 269-276.	1.5	54
150	Optical Techniques in the Assessment of Peripheral Arterial Disease. <i>Current Vascular Pharmacology</i> , 2007, 5, 53-59.	1.7	54
151	Surface modification of a POSS-nanocomposite material to enhance cellular integration of a synthetic bioscaffold. <i>Biomaterials</i> , 2016, 83, 283-293.	11.4	54
152	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.	2.7	54
153	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, 147-154.	1.5	53
154	A Hybrid Compliant Vascular Graft Seeded with Microvascular Endothelial Cells Extracted from Human Omentum. <i>Artificial Organs</i> , 2001, 25, 974-982.	1.9	53
155	The relationship of hepatic tissue oxygenation with nitric oxide metabolism in ischemic preconditioning of the liver. <i>FASEB Journal</i> , 2002, 16, 1654-1656.	0.5	53
156	Effect of ischemic preconditioning on hepatic microcirculation and function in a rat model of ischemia reperfusion injury. <i>Liver Transplantation</i> , 2002, 8, 1182-1191.	2.4	53
157	Biomechanical Characterization of Human Soft Tissues Using Indentation and Tensile Testing. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	53
158	Hydrogels as Emerging Materials for Cornea Wound Healing. <i>Small</i> , 2021, 17, e2006335.	10.0	52
159	Magnetic beads (Dynabeads) toxicity to endothelial cells at high bead concentration: Implication for tissue engineering of vascular prosthesis. <i>Cell Biology and Toxicology</i> , 2003, 19, 265-272.	5.3	51
160	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, 129-136.	2.5	51
161	Functionalization of single-walled carbon nanotubes and their binding to cancer cells. <i>International Journal of Nanomedicine</i> , 2012, 7, 905.	6.7	51
162	Biochemical engineering nerve conduits using peptide amphiphiles. <i>Journal of Controlled Release</i> , 2012, 163, 342-352.	9.9	51

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