

Diego Mantovani

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339
papers

12,400
citations

54
h-index

101
g-index

362
ext. papers

14,091
ext. citations

5.5
avg, IF

6.62
L-index

#	Paper	IF	Citations
339	Antibacterial Coatings: Challenges, Perspectives, and Opportunities. <i>Trends in Biotechnology</i> , 2015 , 33, 637-652	15.1	430
338	Developments in metallic biodegradable stents. <i>Acta Biomaterialia</i> , 2010 , 6, 1693-7	10.8	424
337	Functional human corneal equivalents constructed from cell lines. <i>Science</i> , 1999 , 286, 2169-72	33.3	389
336	Biodegradable metals for cardiovascular stent application: interests and new opportunities. <i>International Journal of Molecular Sciences</i> , 2011 , 12, 4250-70	6.3	383
335	Shape Memory Materials for Biomedical Applications. <i>Advanced Engineering Materials</i> , 2002 , 4, 91-104	3.5	353
334	Preparation of ready-to-use, storable and reconstituted type I collagen from rat tail tendon for tissue engineering applications. <i>Nature Protocols</i> , 2006 , 1, 2753-8	18.8	349
333	Small-diameter vascular tissue engineering. <i>Nature Reviews Cardiology</i> , 2013 , 10, 410-21	14.8	309
332	Osteoconduction and osteoinduction of low-temperature 3D printed bioceramic implants. <i>Biomaterials</i> , 2008 , 29, 944-53	15.6	274
331	Fe-Mn alloys for metallic biodegradable stents: degradation and cell viability studies. <i>Acta Biomaterialia</i> , 2010 , 6, 1852-60	10.8	235
330	The stimulation of angiogenesis and collagen deposition by copper. <i>Biomaterials</i> , 2010 , 31, 824-31	15.6	231
329	Long-term clinical study and multiscale analysis of in vivo biodegradation mechanism of Mg alloy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 716-21	11.5	230
328	Novel Zn-based alloys for biodegradable stent applications: Design, development and in vitro degradation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 60, 581-602	4.1	213
327	Collagen-based wound dressing: effects of hyaluronic acid and fibronectin on wound healing. <i>Biomaterials</i> , 1986 , 7, 3-8	15.6	198
326	Design of a pseudo-physiological test bench specific to the development of biodegradable metallic biomaterials. <i>Acta Biomaterialia</i> , 2008 , 4, 284-95	10.8	192
325	IronManganese: new class of metallic degradable biomaterials prepared by powder metallurgy. <i>Powder Metallurgy</i> , 2008 , 51, 38-45	1.9	191
324	Angiogenesis in calcium phosphate scaffolds by inorganic copper ion release. <i>Tissue Engineering - Part A</i> , 2009 , 15, 1601-9	3.9	177
323	Current status and outlook on the clinical translation of biodegradable metals. <i>Materials Today</i> , 2019 , 23, 57-71	21.8	155

322	Collagen fiber formation in repair tissue: development of strength and toughness. <i>Collagen and Related Research</i> , 1985 , 5, 481-92		155
321	Collagen-based wound dressings: control of the pore structure and morphology. <i>Journal of Biomedical Materials Research Part B</i> , 1986 , 20, 1219-28		152
320	Biological performances of collagen-based scaffolds for vascular tissue engineering. <i>Biomaterials</i> , 2005 , 26, 7410-7	15.6	151
319	Electroformed pure iron as a new biomaterial for degradable stents: in vitro degradation and preliminary cell viability studies. <i>Acta Biomaterialia</i> , 2010 , 6, 1843-51	10.8	140
318	Tailoring Mechanical Properties of Collagen-Based Scaffolds for Vascular Tissue Engineering: The Effects of pH, Temperature and Ionic Strength on Gelation. <i>Polymers</i> , 2010 , 2, 664-680	4.5	137
317	Shape memory alloys: Properties and biomedical applications. <i>Jom</i> , 2000 , 52, 36-44	2.1	137
316	Compliant electrospun silk fibroin tubes for small vessel bypass grafting. <i>Acta Biomaterialia</i> , 2010 , 6, 4019-26	10.8	135
315	Bioreactors for tissue engineering: focus on mechanical constraints. A comparative review. <i>Tissue Engineering</i> , 2006 , 12, 2367-83		133
314	Mutant huntingtin is present in neuronal grafts in Huntington disease patients. <i>Annals of Neurology</i> , 2014 , 76, 31-42	9.4	130
313	Chemical stability of polyether urethanes versus polycarbonate urethanes. <i>Journal of Biomedical Materials Research Part B</i> , 1997 , 36, 550-9		123
312	Direct Printing of Bioceramic Implants with Spatially Localized Angiogenic Factors. <i>Advanced Materials</i> , 2007 , 19, 795-800	24	123
311	Fabrication, mechanical properties and in vitro degradation behavior of newly developed ZnAg alloys for degradable implant applications. <i>Materials Science and Engineering C</i> , 2017 , 77, 1170-1181	8.3	122
310	Electroformed iron as new biomaterial for degradable stents: development process and structure-properties relationship. <i>Acta Biomaterialia</i> , 2010 , 6, 1726-35	10.8	121
309	Assessing the biocompatibility of degradable metallic materials: state-of-the-art and focus on the potential of genetic regulation. <i>Acta Biomaterialia</i> , 2010 , 6, 1800-7	10.8	106
308	Ammonia RF Plasma on PTFE Surfaces: Chemical Characterization of the Species Created on the Surface by Vapor Phase Chemical Derivatization. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 12490-12497 ^{3,4}		105
307	Effects of fibroblasts and basic fibroblast growth factor on facilitation of dermal wound healing by type I collagen matrices. <i>Journal of Biomedical Materials Research Part B</i> , 1991 , 25, 683-96		102
306	A genome-wide shRNA screen identifies GAS1 as a novel melanoma metastasis suppressor gene. <i>Genes and Development</i> , 2008 , 22, 2932-40	12.6	97
305	Macromolecular biomaterials for scaffold-based vascular tissue engineering. <i>Macromolecular Bioscience</i> , 2007 , 7, 701-18	5.5	97

304	A collagen-based scaffold for a tissue engineered human cornea: physical and physiological properties. <i>International Journal of Artificial Organs</i> , 2003 , 26, 764-73	1.9	96
303	Fibroblast growth on a porous collagen sponge containing hyaluronic acid and fibronectin. <i>Biomaterials</i> , 1987 , 8, 195-200	15.6	96
302	Artificial human corneas: scaffolds for transplantation and host regeneration. <i>Cornea</i> , 2002 , 21, S54-61	3.1	91
301	Brushite-collagen composites for bone regeneration. <i>Acta Biomaterialia</i> , 2008 , 4, 1315-21	10.8	85
300	Degradable metallic biomaterials: design and development of Fe-Mn alloys for stents. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 93, 1-11	5.4	81
299	A study of atmospheric pressure plasma discharges for surface functionalization of PTFE used in biomedical applications. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 3461-3469	3	80
298	Improving arterial prosthesis neo-endothelialization: application of a proactive VEGF construct onto PTFE surfaces. <i>Biomaterials</i> , 2005 , 26, 7402-9	15.6	77
297	Development of an optimized electrochemical process for subsequent coating of 316 stainless steel for stent applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2006 , 17, 647-57	4.5	76
296	Directional migration of endothelial cells towards angiogenesis using polymer fibres in a 3D co-culture system. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010 , 4, 524-31	4.4	70
295	Heparin-fibroblast growth factor-fibrin complex: in vitro and in vivo applications to collagen-based materials. <i>Biomaterials</i> , 1994 , 15, 665-72	15.6	69
294	Non-Viral in Vitro Gene Delivery: It is Now Time to Set the Bar!. <i>Pharmaceutics</i> , 2020 , 12,	6.4	64
293	Collagen-Based Tissue Engineering Strategies for Vascular Medicine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 166	5.8	64
292	Collagen biomineralization in vivo by sustained release of inorganic phosphate ions. <i>Advanced Materials</i> , 2010 , 22, 1858-62	24	62
291	Preparation of ready-to-use, stockable and reconstituted collagen. <i>Macromolecular Bioscience</i> , 2005 , 5, 821-8	5.5	62
290	Polydopamine as an intermediate layer for silver and hydroxyapatite immobilisation on metallic biomaterials surface. <i>Materials Science and Engineering C</i> , 2013 , 33, 4715-24	8.3	59
289	Size matters for in vitro gene delivery: investigating the relationships among complexation protocol, transfection medium, size and sedimentation. <i>Scientific Reports</i> , 2017 , 7, 44134	4.9	58
288	Reduced graphene oxide growth on 316L stainless steel for medical applications. <i>Nanoscale</i> , 2014 , 6, 8664-70	7.7	57
287	Collagen-reinforced electrospun silk fibroin tubular construct as small calibre vascular graft. <i>Macromolecular Bioscience</i> , 2012 , 12, 1566-74	5.5	57

286	Process of prototyping coronary stents from biodegradable Fe-Mn alloys. <i>Acta Biomaterialia</i> , 2013 , 9, 8585-92	10.8	56
285	Cellularizing hydrogel-based scaffolds to repair bone tissue: How to create a physiologically relevant micro-environment?. <i>Journal of Tissue Engineering</i> , 2017 , 8, 2041731417712073	7.5	52
284	Design of a perfusion bioreactor specific to the regeneration of vascular tissues under mechanical stresses. <i>Artificial Organs</i> , 2005 , 29, 906-12	2.6	52
283	Influence of cross-rolling on the micro-texture and biodegradation of pure iron as biodegradable material for medical implants. <i>Acta Biomaterialia</i> , 2015 , 17, 68-77	10.8	51
282	Fucoidan in a 3D scaffold interacts with vascular endothelial growth factor and promotes neovascularization in mice. <i>Drug Delivery and Translational Research</i> , 2015 , 5, 187-97	6.2	50
281	Comparison of Atmospheric-Pressure Plasma versus Low-Pressure RF Plasma for Surface Functionalization of PTFE for Biomedical Applications. <i>Plasma Processes and Polymers</i> , 2006 , 3, 506-515	3.4	49
280	Experimental data confirm numerical modeling of the degradation process of magnesium alloys stents. <i>Acta Biomaterialia</i> , 2013 , 9, 8730-9	10.8	48
279	Behaviour of fibroblasts and epidermal cells cultivated on analogues of extracellular matrix. <i>Biomaterials</i> , 1988 , 9, 91-6	15.6	48
278	Evidence of antibacterial activity on titanium surfaces through nanotextures. <i>Applied Surface Science</i> , 2014 , 308, 275-284	6.7	47
277	Effect of electrodeposition current density on the microstructure and the degradation of electroformed iron for degradable stents. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 1812-1822	3.1	47
276	Preparation and characterization of a scaffold for vascular tissue engineering by direct-assembling of collagen and cells in a cylindrical geometry. <i>Macromolecular Bioscience</i> , 2007 , 7, 719-26	5.5	47
275	The influence of UV irradiation on surface composition of collagen/PVP blended films. <i>Applied Surface Science</i> , 2006 , 253, 1970-1977	6.7	47
274	Immobilized liposome layers for drug delivery applications: inhibition of angiogenesis. <i>Journal of Controlled Release</i> , 2002 , 80, 179-95	11.7	47
273	In vitro biological performances of phosphorylcholine-grafted ePTFE prostheses through RFGD plasma techniques. <i>Macromolecular Bioscience</i> , 2005 , 5, 829-39	5.5	44
272	Blood protein adsorption on sulfonated chitosan and Ectarrageenan films. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 111, 719-25	6	43
271	Osteoblast-derived survival factors protect PC-3 human prostate cancer cells from adriamycin apoptosis. <i>Urology</i> , 1998 , 52, 341-7	1.6	43
270	In vitro degradation behavior of Fe-20 Mn-1.2C alloy in three different pseudo-physiological solutions. <i>Materials Science and Engineering C</i> , 2016 , 61, 564-73	8.3	42
269	Development of Degradable Fe-35Mn Alloy for Biomedical Application. <i>Advanced Materials Research</i> , 2006 , 15-17, 107-112	0.5	42

268	Denatured collagen as support for a FGF-2 delivery system: physicochemical characterizations and in vitro release kinetics and bioactivity. <i>Biomaterials</i> , 2004 , 25, 3761-72	15.6	42
267	Turbidimetric and morphological studies of type I collagen fibre self assembly in vitro and the influence of fibronectin. <i>International Journal of Biological Macromolecules</i> , 1985 , 7, 135-140	7.9	42
266	Effect of grain sizes on mechanical properties and biodegradation behavior of pure iron for cardiovascular stent application. <i>Biomatter</i> , 2016 , 6, e959874		40
265	On the effects of UV-C and pH on the mechanical behavior, molecular conformation and cell viability of collagen-based scaffold for vascular tissue engineering. <i>Macromolecular Bioscience</i> , 2010 , 10, 307-16	5.5	40
264	Characterization of film failures by bismuth electrodepositionApplication to thin deformed fluorocarbon films for stent applications. <i>Electrochimica Acta</i> , 2010 , 55, 1042-1050	6.7	39
263	Extracellular matrix analogs as carriers for growth factors: in vitro fibroblast behavior. <i>Journal of Biomedical Materials Research Part B</i> , 1993 , 27, 389-97		39
262	Long-term stability of hydrogenated DLC coatings: Effects of aging on the structural, chemical and mechanical properties. <i>Diamond and Related Materials</i> , 2014 , 48, 65-72	3.5	38
261	Investigation of Corrosion Behaviour of Magnesium Alloy AM60B-F under Pseudo-Physiological Conditions. <i>Materials Science Forum</i> , 2003 , 426-432, 521-526	0.4	37
260	Biological molecule-impregnated polyester: an in vivo angiogenesis study. <i>Biomaterials</i> , 1996 , 17, 1659-65.6	65.6	37
259	Surface modifications of 316 stainless steel for the improvement of its interface properties with RFGD-deposited fluorocarbon coating. <i>Surface and Coatings Technology</i> , 2005 , 197, 278-287	4.4	36
258	Chemical and Morphological Characterization of Ultra-Thin Fluorocarbon Plasma-Polymer Deposition on 316 Stainless Steel Substrates: A First Step Toward the Improvement of the Long-Term Safety of Coated-Stents. <i>Plasma Processes and Polymers</i> , 2005 , 2, 424-440	3.4	36
257	Degradation Behaviour of Metallic Biomaterials for Degradable Stents. <i>Advanced Materials Research</i> , 2006 , 15-17, 113-118	0.5	35
256	Collagen-poly(N-isopropylacrylamide)-based membranes for corneal stroma scaffolds. <i>Cornea</i> , 2003 , 22, S81-8	3.1	34
255	Phosphorylation of chitosan to improve osteoinduction of chitosan/xanthan-based scaffolds for periosteal tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2020 , 143, 619-632	7.9	34
254	Plasma functionalization of poly(vinyl alcohol) hydrogel for cell adhesion enhancement. <i>Biomatter</i> , 2013 , 3,		33
253	In Vitro Bioactivity Assessment of Metallic Magnesium. <i>Key Engineering Materials</i> , 2006 , 309-311, 453-456.4		33
252	Wettability of cross-linked collagenous biomaterials: in vitro study. <i>Biomaterials</i> , 1992 , 13, 612-6	15.6	33
251	Biodegradable Magnesium Alloys Promote Angio-Osteogenesis to Enhance Bone Repair. <i>Advanced Science</i> , 2020 , 7, 2000800	13.6	32

250	Antibacterial properties of chitosan-based coatings are affected by spacer-length and molecular weight. <i>Applied Surface Science</i> , 2018 , 445, 478-487	6.7	32
249	Effects of extracellular matrix proteins on the growth of haematopoietic progenitor cells. <i>Biomedical Materials (Bristol)</i> , 2011 , 6, 055011	3.5	32
248	Three-dimensional type I collagen gel system for the study of osteoblastic metastases produced by metastatic prostate cancer. <i>Journal of Bone and Mineral Research</i> , 1994 , 9, 1823-32	6.3	32
247	Bioactive polymer fibers to direct endothelial cell growth in a three-dimensional environment. <i>Biomacromolecules</i> , 2007 , 8, 864-73	6.9	32
246	Newly identified interfibrillar collagen crosslinking suppresses cell proliferation and remodelling. <i>Biomaterials</i> , 2015 , 54, 126-35	15.6	31
245	Chemotherapy Cytotoxicity of Human MCF-7 and MDA-MB 231 Breast Cancer Cells Is Altered by Osteoblast-Derived Growth Factors. <i>Molecular Medicine</i> , 1999 , 5, 86-97	6.2	31
244	Porosity and biological properties of polyethylene glycol-conjugated collagen materials. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1994 , 6, 715-28	3.5	31
243	Development and characterization of silver containing calcium phosphate coatings on pure iron foam intended for bone scaffold applications. <i>Materials and Design</i> , 2018 , 148, 124-134	8.1	30
242	Fibronectin promotes elastin deposition, elasticity and mechanical strength in cellularised collagen-based scaffolds. <i>Biomaterials</i> , 2018 , 180, 130-142	15.6	30
241	Study on the stability of plasma-polymerized fluorocarbon ultra-thin coatings on stainless steel in water. <i>Surface and Coatings Technology</i> , 2008 , 202, 4884-4891	4.4	30
240	Sulfonated chitosan and dopamine based coatings for metallic implants in contact with blood. <i>Materials Science and Engineering C</i> , 2017 , 72, 682-691	8.3	29
239	On the long term antibacterial features of silver-doped diamondlike carbon coatings deposited via a hybrid plasma process. <i>Biointerphases</i> , 2014 , 9, 029013	1.8	29
238	Study of the adhesion of thin plasma fluorocarbon coatings resisting plastic deformation for stent applications. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 045310	3	29
237	Unraveling the role of mechanical stimulation on smooth muscle cells: A comparative study between 2D and 3D models. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 2254-63	4.9	29
236	A new composite hydrogel combining the biological properties of collagen with the mechanical properties of a supramolecular scaffold for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e1489-e1500	4.4	28
235	Biodegradable Metal Stents: A Focused Review on Materials and Clinical Studies. <i>Journal of Biomaterials and Tissue Engineering</i> , 2014 , 4, 868-874	0.3	28
234	Irradiated Mesenchymal Stem Cells improve the ex vivo expansion of Hematopoietic Progenitors by partly mimicking the bone marrow endosteal environment. <i>Journal of Immunological Methods</i> , 2011 , 370, 93-103	2.5	27
233	Enhancing the functionality of cotton fabric by physical and chemical pre-treatments: A comparative study. <i>Carbohydrate Polymers</i> , 2016 , 147, 28-36	10.3	27

232	Mechanically-enhanced polysaccharide-based scaffolds for tissue engineering of soft tissues. <i>Materials Science and Engineering C</i> , 2019 , 94, 364-375	8.3	27
231	Comparative evaluation and optimization of off-the-shelf cationic polymers for gene delivery purposes. <i>Polymer Chemistry</i> , 2015 , 6, 6325-6339	4.9	26
230	Methods to Investigate the Adhesion of Soft Nano-Coatings on Metal Substrates [Application to Polymer-Coated Stents. <i>Macromolecular Materials and Engineering</i> , 2009 , 294, 11-19	3.9	26
229	Plasma polymerized allylamine films deposited on 316L stainless steel for cardiovascular stent coatings. <i>Surface and Coatings Technology</i> , 2010 , 205, 2461-2468	4.4	26
228	RCAS1 is associated with ductal breast cancer progression. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 293, 1544-9	3.4	26
227	The use of multiple pseudo-physiological solutions to simulate the degradation behavior of pure iron as a metallic resorbable implant: a surface-characterization study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19637-46	3.6	26
226	Removal of electrostatic artifacts in magnetic force microscopy by controlled magnetization of the tip: application to superparamagnetic nanoparticles. <i>Scientific Reports</i> , 2016 , 6, 26293	4.9	25
225	X-ray photoelectron emission microscopy and time-of-flight secondary ion mass spectrometry analysis of ultrathin fluoropolymer coatings for stent applications. <i>Langmuir</i> , 2008 , 24, 7897-905	4	25
224	Antibacterial Coatings Based on Chitosan for Pharmaceutical and Biomedical Applications. <i>Current Pharmaceutical Design</i> , 2018 , 24, 866-885	3.3	25
223	Controlled Distribution and Clustering of Silver in Ag-DLC Nanocomposite Coatings Using a Hybrid Plasma Approach. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21020-7	9.5	25
222	In vitro contraction rate of collagen in sponge-shape matrices. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1992 , 3, 301-13	3.5	24
221	In vitro angiogenesis in fibrin matrices containing fibronectin or hyaluronic acid. <i>Cell Biology International Reports</i> , 1992 , 16, 1251-63		24
220	Vascugraft [®] microporous polyesterurethane arterial prosthesis as a thoraco-abdominal bypass in dogs. <i>Biomaterials</i> , 1996 , 17, 1289-1300	15.6	24
219	Comparative study on complexes formed by chitosan and different polyanions: Potential of chitosan-pectin biomaterials as scaffolds in tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2019 , 132, 178-189	7.9	23
218	Mechanical and biological performances of new scaffolds made of collagen hydrogels and fibroin microfibers for vascular tissue engineering. <i>Macromolecular Bioscience</i> , 2012 , 12, 1253-64	5.5	23
217	Promotion of angiogenesis in tissue engineering: developing multicellular matrices with multiple capacities. <i>International Journal of Artificial Organs</i> , 2006 , 29, 1148-57	1.9	23
216	Oxidized bacterial cellulose membrane as support for enzyme immobilization: properties and morphological features. <i>Cellulose</i> , 2020 , 27, 3055-3083	5.5	22
215	Treatment of 4-chlorobenzoic acid by plasma-based advanced oxidation processes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013 , 72, 82-89	3.7	22

214	Synergistic control of sex hormones by 17 β HSD type 7: a novel target for estrogen-dependent breast cancer. <i>Journal of Molecular Cell Biology</i> , 2015 , 7, 568-79	6.3	22
213	Chemical inactivators as sterilization agents for bovine collagen materials. <i>Journal of Biomedical Materials Research Part B</i> , 1997 , 37, 212-21		22
212	In vivo evaluation of hydrophobic and fibrillar microporous polyetherurethane urea graft. <i>Biomaterials</i> , 1989 , 10, 521-31	15.6	22
211	Wound healing using a collagen matrix: effect of DC electrical stimulation. <i>Journal of Biomedical Materials Research Part B</i> , 1988 , 22, 191-206		22
210	On the potential for fibronectin/phosphorylcholine coatings on PTFE substrates to jointly modulate endothelial cell adhesion and hemocompatibility properties. <i>Biomatter</i> , 2015 , 5, e979679		21
209	Protein tyrosine phosphatase inhibition induces anti-tumor activity: evidence of Cdk2/p27 kip1 and Cdk2/SHP-1 complex formation in human ovarian cancer cells. <i>Cancer Letters</i> , 2008 , 262, 265-75	9.9	21
208	Silver-based antibacterial strategies for healthcare-associated infections: Processes, challenges, and regulations. An integrated review. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020 , 24, 102142	6	21
207	Fetal development, mechanobiology and optimal control processes can improve vascular tissue regeneration in bioreactors: an integrative review. <i>Medical Engineering and Physics</i> , 2012 , 34, 269-78	2.4	20
206	Synthesis, mechanical properties and corrosion behavior of powder metallurgy processed Fe/MgSi composites for biodegradable implant applications. <i>Materials Science and Engineering C</i> , 2017 , 81, 511-521	8.3	20
205	Human elastin-based recombinant biopolymers improve mesenchymal stem cell differentiation. <i>Macromolecular Bioscience</i> , 2012 , 12, 1546-54	5.5	20
204	Intestinal and multivisceral transplantation immunosuppression protocols--literature review. <i>Transplantation Proceedings</i> , 2012 , 44, 2445-8	1.1	20
203	siRNA-mediated down-regulation of P-glycoprotein in a Xenograft tumor model in NOD-SCID mice. <i>Pharmaceutical Research</i> , 2011 , 28, 2516-29	4.5	20
202	Influence of the 316 L stainless steel interface on the stability and barrier properties of plasma fluorocarbon films. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2323-31	9.5	20
201	Effects of a pseudophysiological environment on the elastic and viscoelastic properties of collagen gels. <i>International Journal of Biomaterials</i> , 2012 , 2012, 319290	3.2	20
200	On the Growth of Fluorocarbon Thin Films Deposited on Plasma-Etched 316L Stainless Steel. <i>Plasma Processes and Polymers</i> , 2010 , 7, 309-317	3.4	20
199	Prolonged delivery of BMP-2 by a non-polymer hydrogel for bone defect regeneration. <i>Drug Delivery and Translational Research</i> , 2018 , 8, 178-190	6.2	20
198	CO ₂ -rich atmosphere strongly affects the degradation of Fe-21Mn-1C for biodegradable metallic implants. <i>Materials Letters</i> , 2016 , 181, 362-366	3.3	19
197	Toward High-Performance Coatings for Biomedical Devices: Study on Plasma-Deposited Fluorocarbon Films and Ageing in PBS. <i>Materials</i> , 2010 , 3, 1515-1532	3.5	19

196	Endothelial cells exposed to erythrocytes under shear stress: an in vitro study. <i>Biomaterials</i> , 1998 , 19, 1925-34	15.6	19
195	Poly(ethylene glycol)-serum albumin hydrogel as matrix for enzyme immobilization: biomedical applications. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 1995 , 23, 587-95		19
194	In vitro exposure of a novel polyesterurethane graft to enzymes: a study of the biostability of the Vascugraft arterial prosthesis. <i>Biomaterials</i> , 1994 , 15, 1129-44	15.6	19
193	Effect of Poly-L-Lysine coating on titanium osseointegration: from characterization to in vivo studies. <i>Journal of Oral Implantology</i> , 2015 , 41, 626-31	1.2	18
192	Computational modeling of adherent cell growth in a hollow-fiber membrane bioreactor for large-scale 3-D bone tissue engineering. <i>Journal of Artificial Organs</i> , 2012 , 15, 250-65	1.8	18
191	Insulin-like growth factor binding protein-2 and neurotrophin 3 synergize together to promote the expansion of hematopoietic cells ex vivo. <i>Cytokine</i> , 2012 , 58, 327-31	4	18
190	Relationship between mechanical properties and collagen structure of closed and open wounds. <i>Journal of Biomechanical Engineering</i> , 1988 , 110, 352-6	2.1	18
189	In vitro evaluation of anti-calcification and anti-coagulation on sulfonated chitosan and carrageenan surfaces. <i>Materials Science and Engineering C</i> , 2016 , 59, 241-248	8.3	17
188	Degradation behavior of biodegradable Fe35Mn alloy stents. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 572-7	3.5	17
187	Single nanoparticles magnetization curves by controlled tip magnetization magnetic force microscopy. <i>Nanoscale</i> , 2017 , 9, 18000-18011	7.7	17
186	Experimental issues in magnetic force microscopy of nanoparticles 2015 ,		17
185	Spontaneous and Biomimetic Apatite Formation on Pure Magnesium. <i>Materials Science Forum</i> , 2007 , 539-543, 589-594	0.4	17
184	Ammonia RF-Plasma Treatment of Tubular ePTFE Vascular Prostheses. <i>Plasmas and Polymers</i> , 1999 , 4, 207-228		17
183	Bioactive collagen sponge as connective tissue substitute. <i>Materials Science and Engineering C</i> , 1994 , 2, 43-49	8.3	17
182	Biomimetic coating of cross-linked gelatin to improve mechanical and biological properties of electrospun PET: A promising approach for small caliber vascular graft applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 2405-2415	5.4	16
181	Medium conditioned with mesenchymal stromal cell-derived osteoblasts improves the expansion and engraftment properties of cord blood progenitors. <i>Experimental Hematology</i> , 2014 , 42, 741-52.e1	3.1	16
180	A Dual-Mode Bioreactor System for Tissue Engineered Vascular Models. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 1496-1510	4.7	15
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