

Diego Mantovani

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Proteomics as a tool to gain next level insights into photo-crosslinkable biopolymer modifications.. <i>Bioactive Materials</i> , 2022 , 17, 204-220	16.7	0
338	Polysaccharide-based layer-by-layer nanoarchitectonics with sulfated chitosan for tuning anti-thrombogenic properties.. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 213, 112359	6	0
337	Improving the radiopacity of Fe-Mn biodegradable metals by magnetron-sputtered W-Fe-Mn-C coatings: Application for thinner stents.. <i>Bioactive Materials</i> , 2022 , 12, 64-70	16.7	0
336	Effect of silver in thermal treatments of Fe-Mn-C degradable metals: Implications for stent processing.. <i>Bioactive Materials</i> , 2022 , 12, 30-41	16.7	
335	Surface processing for iron-based degradable alloys: A preliminary study on the importance of acid pickling.. <i>Bioactive Materials</i> , 2022 , 11, 166-180	16.7	2
334	Physiologically relevant platform for an advanced in vitro model of the vascular wall: focus on in situ fabrication and mechanical maturation. <i>In Vitro Models</i> , 2022 , 1, 179		
333	Detecting Respiratory Rate Using Flexible Multi-Material Fiber Electrodes Designed for a Wearable Garment. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	0
332	FeMn Alloys Electroforming Process Using Choline Chloride Based Deep Eutectic Solvents. <i>Materials Proceedings</i> , 2021 , 5, 40	0.3	0
331	The mechanical characterization of blood vessels and their substitutes in the continuous quest for physiological-relevant performances. A critical review. <i>Materials Today Bio</i> , 2021 , 10, 100106	9.9	13
330	On the adhesion of diamond-like carbon coatings deposited by low-pressure plasma on 316L stainless steel. <i>Surface and Interface Analysis</i> , 2021 , 53, 658	1.5	0
329	Flexor tendon repair using a reinforced tubular, medicated electrospun construct. <i>Journal of Orthopaedic Research</i> , 2021 ,	3.8	2
328	On arginine-based polyurethane-blends specific to vascular prostheses. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51247	2.9	2
327	In-Situ One-Step Direct Loading of Agents in Poly(acrylic acid) Coating Deposited by Aerosol-Assisted Open-Air Plasma. <i>Polymers</i> , 2021 , 13,	4.5	1
326	Mechanical and degradation behavior of three Fe-Mn-C alloys for potential biomedical applications. <i>Materials Today Communications</i> , 2021 , 27, 102250	2.5	4
325	A Novel Strategy to Coat Dopamine-Functionalized Titanium Surfaces With Agarose-Based Hydrogels for the Controlled Release of Gentamicin. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021 , 11, 678081	5.9	3
324	Six-Month Long Degradation Tests of Biodegradable Twinning-Induced Plasticity Steels Alloyed with Ag for Stent Applications. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 3669-3682	5.5	1
323	A microfluidic approach for development of hybrid collagen-chitosan extracellular matrix-like membranes for on-chip cell cultures. <i>Journal of Materials Science and Technology</i> , 2021 , 63, 54-61	9.1	5

322	Centrifugally spun mats based on biopolyesters/hydroxyapatite and their potential as bone scaffolds. <i>Journal of Applied Polymer Science</i> , 2021 , 138, app50139	2.9	4
321	Three-dimensional printed biodegradable poly(l-lactic acid)/(poly(d-lactic acid) scaffold as an intervention of biomedical substitute. <i>Polymer-Plastics Technology and Materials</i> , 2021 , 60, 1005-1015	1.5	2
320	Biocasting of an elastin-like recombinamer and collagen bi-layered model of the tunica adventitia and external elastic lamina of the vascular wall. <i>Biomaterials Science</i> , 2021 , 9, 3860-3874	7.4	2
319	Development of Multifunctional Materials Based on Poly(ether ether ketone) with Improved Biological Performances for Dental Applications. <i>Materials</i> , 2021 , 14,	3.5	2
318	Coronary stent CD31-mimetic coating favours endothelialization and reduces local inflammation and neointimal development in vivo. <i>European Heart Journal</i> , 2021 , 42, 1760-1769	9.5	6
317	Development of photo-crosslinkable collagen hydrogel building blocks for vascular tissue engineering applications: A superior alternative to methacrylated gelatin?. <i>Materials Science and Engineering C</i> , 2021 , 130, 112460	8.3	2
316	Synthesis and characterization of a polymeric network made of polyethylene glycol and chitosan as a treatment with antibacterial properties for skin wounds. <i>Journal of Biomaterials Applications</i> , 2020 , 35, 274-286	2.9	
315	Microstructural Precipitation Evolution and In Vitro Degradation Behavior of a Novel Chill-Cast Zn-Based Absorbable Alloy for Medical Applications. <i>Metals</i> , 2020 , 10, 586	2.3	2
314	Elastin-like recombinamers in collagen-based tubular gels improve cell-mediated remodeling and viscoelastic properties. <i>Biomaterials Science</i> , 2020 , 8, 3536-3548	7.4	5
313	Effect of Silver on Corrosion Behavior of Plastically Deformed Twinning-Induced Plasticity Steel for Biodegradable Stents. <i>Jom</i> , 2020 , 72, 1892-1901	2.1	5
312	A New Preventive Strategy for Better Remediation of Marine Biofouling by an Eco-friendly Physical and Morphological Modification Process. <i>Silicon</i> , 2020 , 12, 2901-2909	2.4	
311	Biodegradable Magnesium Alloys Promote Angio-Osteogenesis to Enhance Bone Repair. <i>Advanced Science</i> , 2020 , 7, 2000800	13.6	32
310	Biopolymer-based coatings for cardiovascular applications 2020 , 273-287		0
309	Non-Viral in Vitro Gene Delivery: It is Now Time to Set the Bar!. <i>Pharmaceutics</i> , 2020 , 12,	6.4	64
308	Oxidized bacterial cellulose membrane as support for enzyme immobilization: properties and morphological features. <i>Cellulose</i> , 2020 , 27, 3055-3083	5.5	22
307	Coacervation Conditions and Cross-Linking Determines Availability of Carbonyl Groups on Elastin and its Calcification. <i>Crystal Growth and Design</i> , 2020 , 20, 7170-7179	3.5	2
306	A simple and effective approach to produce tubular polysaccharide-based hydrogel scaffolds. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48510	2.9	6
305	Development, Validation, and Performance of Chitosan-Based Coatings Using Catechol Coupling. <i>Macromolecular Bioscience</i> , 2020 , 20, e1900253	5.5	1

304	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
303	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
302	Effect of laser welding on the mechanical and degradation behaviour of Fe-20Mn-0.6C bioabsorbable alloy. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 13474-13482	5.5	7
301	Influence of cross Rolling on the microstructure and mechanical properties of Zn bioabsorbable alloys. <i>Materials Letters</i> , 2020 , 279, 128504	3.3	1
300	Plasma-immersion ion implantation surface oxidation on a cobalt-chromium alloy for biomedical applications. <i>Biointerphases</i> , 2020 , 15, 041004	1.8	3
299	Polydopamine-modified interface improves the immobilization of natural bioactive-dye onto textile and enhances antifungal activity. <i>Biointerphases</i> , 2020 , 15, 041011	1.8	1
298	Laser surface texturing of SS316L for enhanced adhesion of HUVECs. <i>Surface Engineering</i> , 2020 , 36, 1240-1249	1.8	8
297	Pleiotrophin: Analysis of the endothelialisation potential. <i>Advances in Medical Sciences</i> , 2019 , 64, 144-151	1.8	2
296	Combined effect of Laponite and polymer molecular weight on the cell-interactive properties of synthetic PEO-based hydrogels. <i>Reactive and Functional Polymers</i> , 2019 , 136, 95-106	4.6	12
295	Surface modification and direct plasma amination of L605 CoCr alloys: on the optimization of the oxide layer for application in cardiovascular implants.. <i>RSC Advances</i> , 2019 , 9, 2292-2301	3.7	9
294	Absorbable metals for cardiovascular applications 2019 , 523-543		1
293	Luminal Plasma Treatment for Small Diameter Polyvinyl Alcohol Tubular Scaffolds. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 117	5.8	7
292	The addition of silver affects the deformation mechanism of a twinning-induced plasticity steel: Potential for thinner degradable stents. <i>Acta Biomaterialia</i> , 2019 , 98, 103-113	10.8	9
291	Heparin-Modified Collagen Gels for Controlled Release of Pleiotrophin: Potential for Vascular Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 74	5.8	13
290	Surface modifications by plasma treatment, chemical grafting and over dyeing of polyamide nets to improve the antifouling performance in the aquaculture field. <i>Dyes and Pigments</i> , 2019 , 166, 107-113	4.6	4
289	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
288	Current status and outlook on the clinical translation of biodegradable metals. <i>Materials Today</i> , 2019 , 23, 57-71	21.8	155
287	Iron-Based Degradable Implants 2019 , 374-385		4

286	Increasing Cell Seeding Density Improves Elastin Expression and Mechanical Properties in Collagen Gel-Based Scaffolds Cellularized with Smooth Muscle Cells. <i>Biotechnology Journal</i> , 2019 , 14, e1700768	5.6	7
285	Optimisation of fluorapatite coating synthesis applied to a biodegradable substrate. <i>Surface Engineering</i> , 2019 , 35, 255-265	2.6	4
284	Polysaccharide-based tissue-engineered vascular patches. <i>Materials Science and Engineering C</i> , 2019 , 104, 109973	8.3	7
283	Collagen-Based Tissue Engineering Strategies for Vascular Medicine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 166	5.8	64
282	Comparison of the linking arm effect on the biological performance of a CD31 agonist directly grafted on L605 CoCr alloy by a plasma-based multistep strategy. <i>Biointerphases</i> , 2019 , 14, 051009	1.8	3
281	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
280	Understanding the effect of the reinforcement addition on corrosion behavior of Fe/Mg2Si composites for biodegradable implant applications. <i>Materials Chemistry and Physics</i> , 2019 , 223, 771-778	4.4	13
279	Medical Devices: Coronary Stents 2019 , 386-398		1
278	Long-term degradation behaviour of Fe and Fe/MgSi composites for biodegradable implant applications.. <i>RSC Advances</i> , 2018 , 8, 9627-9639	3.7	13
277	Optical emission spectroscopy as a process-monitoring tool in plasma enhanced chemical vapor deposition of amorphous carbon coatings - multivariate statistical modelling. <i>Thin Solid Films</i> , 2018 , 649, 106-114	2.2	3
276	Viscoelastic properties of multi-layered cellularized vascular tissues fabricated from collagen gel. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 80, 155-163	4.1	9
275	Prediction of circumferential compliance and burst strength of polymeric vascular grafts. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 79, 332-340	4.1	12
274	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
273	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
272	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
271	A Cost-Effective Culture System for the In Vitro Assembly, Maturation, and Stimulation of Advanced Multilayered Multiculture Tubular Tissue Models. <i>Biotechnology Journal</i> , 2018 , 13, 1700359	5.6	15
270	Incrementing the Frequency of Dynamic Strain on SMC-Cellularised Collagen-Based Scaffolds Affects Extracellular Matrix Remodeling and Mechanical Properties. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 3759-3767	5.5	0
269	Fibronectin promotes elastin deposition, elasticity and mechanical strength in cellularised collagen-based scaffolds. <i>Biomaterials</i> , 2018 , 180, 130-142	15.6	30

268 Coating stability for stents **2018**, 199-209

267	Low-pressure plasma treatment for direct amination of L605 CoCr alloy for the further covalent grafting of molecules. <i>Plasma Processes and Polymers</i> , 2018 , 15, 1700214	3.4	4
266	Antibacterial Coatings Based on Chitosan for Pharmaceutical and Biomedical Applications. <i>Current Pharmaceutical Design</i> , 2018 , 24, 866-885	3.3	25
265	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
264	Influence of cold rolling on cytotoxicity and electrochemical behaviour of an Fe-Mn-C biodegradable alloy in physiological solutions. <i>Heliyon</i> , 2018 , 4, e00926	3.6	9
263	Controlling Silver Ion Release from Ag-Based Nanocoatings by Plasma Surface Engineering. <i>Materials Science Forum</i> , 2018 , 941, 1625-1631	0.4	1
262	Oxidative Plasma Treatment of Fluorocarbon Surfaces for Blood-Contacting Applications. <i>Materials Science Forum</i> , 2018 , 941, 2528-2533	0.4	1
261	Real-Time Study of the Adsorption and Grafting Process of Biomolecules by Means of Bloch Surface Wave Biosensors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33611-33618	9.5	14
260	Surface modification of L605 by oxygen plasma immersion ion implantation for biomedical applications. <i>MRS Communications</i> , 2018 , 8, 1404-1412	2.7	3
259	Nano-Thick Amorphous Oxide Layer Produced by Plasma on Type 316L Stainless Steel for Improved Corrosion Resistance Under Plastic Deformation. <i>Corrosion</i> , 2018 , 74, 1011-1022	1.8	3
258	Transgenic zebrafish model for quantification and visualization of tissue toxicity caused by alloying elements in newly developed biodegradable metal. <i>Scientific Reports</i> , 2018 , 8, 13818	4.9	3
257	Enhancing the barrier properties of a fluorocarbon plasma-deposited coating by producing an Interface of amorphous oxide layer on 316L stainless steel for stent applications. <i>Surface and Coatings Technology</i> , 2018 , 347, 209-216	4.4	3
256	Incorporation of silver nanoparticles on Ti7.5Mo alloy surface containing TiO ₂ nanotubes arrays for promoting antibacterial coating \square In vitro and in vivo study. <i>Applied Surface Science</i> , 2018 , 455, 780-788	6.7	10
255	A Dual-Mode Bioreactor System for Tissue Engineered Vascular Models. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 1496-1510	4.7	15
254	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
253	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
252	Interaction of phosphorylcholine with fibronectin coatings: Surface characterization and biological performances. <i>Applied Surface Science</i> , 2017 , 396, 1613-1622	6.7	4
251	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

250	Inhibition of 17beta-hydroxysteroid dehydrogenase type 7 modulates breast cancer protein profile and enhances apoptosis by down-regulating GRP78. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2017 , 172, 188-197	5.1	9
249	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
248	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
247	Collagen hydrogel-based scaffolds for vascular tissue regeneration: Mechanical and viscoelastic characterization 2017 , 397-439		3
246	In Situ control and modification of the probe magnetization state for accurate magnetic force microscopy 2017 ,		4
245	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
244	Single nanoparticles magnetization curves by controlled tip magnetization magnetic force microscopy. <i>Nanoscale</i> , 2017 , 9, 18000-18011	7.7	17
243	Hydrophobe-substituted bPEI derivatives: boosting transfection on primary vascular cells. <i>Science China Materials</i> , 2017 , 60, 529-542	7.1	6
242	Effect of electrolyte composition and deposition current for Fe/Fe-P electroformed bilayers for biodegradable metallic medical applications. <i>Materials Science and Engineering C</i> , 2017 , 70, 195-206	8.3	5
241	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
240	Effect of grain sizes on mechanical properties and biodegradation behavior of pure iron for cardiovascular stent application. <i>Biomatter</i> , 2016 , 6, e959874		40
239	A planar model of the vessel wall from cellularized-collagen scaffolds: focus on cell-matrix interactions in mono-, bi- and tri-culture models. <i>Biomaterials Science</i> , 2016 , 5, 153-162	7.4	14
238	Augmented Angiogenic Factors Expression via FP Signaling Pathways in Peritoneal Endometriosis. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016 , 101, 4752-4763	5.6	8
237	Rotation-based technique for the rapid densification of tubular collagen gel scaffolds. <i>Biotechnology Journal</i> , 2016 , 11, 1673-1679	5.6	8
236	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
235	Three-Dimensional Culture Assay to Explore Cancer Cell Invasiveness and Satellite Tumor Formation. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	1
234	CO2-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
233	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

232	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
231	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
230	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
229	Measurement of the nonmagnetic coating thickness of core-shell magnetic nanoparticles by controlled magnetization magnetic force microscopy 2016 ,		7
228	Fibronectin adsorption on surface-modified polyetherurethanes and their differentiated effect on specific blood elements related to inflammatory and clotting processes. <i>Biointerphases</i> , 2016 , 11, 029809 ^{1.8}		7
227	Characterization of Amorphous Oxide Nano-Thick Layers on 316L Stainless Steel by Electron Channeling Contrast Imaging and Electron Backscatter Diffraction. <i>Microscopy and Microanalysis</i> , 2016 , 22, 997-1006	0.5	9
226	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
225	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
224	A comparison of adsorbed and grafted fibronectin coatings under static and dynamic conditions. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 24704-12	3.6	10
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	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
221	Electroforming as a New Method for Fabricating Degradable Pure Iron Stent. <i>Springer Series in Biomaterials Science and Engineering</i> , 2015 , 85-100	0.6	2
220	In vitro interactions between mammary fibroblasts (Hs 578Bst) and cancer epithelial cells (MCF-7) modulate aromatase, steroid sulfatase and 17 β hydroxysteroid dehydrogenases. <i>Molecular and Cellular Endocrinology</i> , 2015 , 412, 339-48	4.4	8
219	Newly identified interfibrillar collagen crosslinking suppresses cell proliferation and remodelling. <i>Biomaterials</i> , 2015 , 54, 126-35	15.6	31
218	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
217	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
216	Antibacterial Coatings: Challenges, Perspectives, and Opportunities. <i>Trends in Biotechnology</i> , 2015 , 33, 637-652	15.1	430
215	Laser surface structuring affects polymer deposition, coating homogeneity, and degradation rate of Mg alloys. <i>Materials Letters</i> , 2015 , 160, 359-362	3.3	15

214	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
213	Crystal structure of superparamagnetic Mg _{0.2} Ca _{0.8} Fe ₂ O ₄ nanoparticles synthesized by sol-gel method. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 374, 474-478	2.8	9
212	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
211	Surface Characterization of Biomimetic Hydroxyapatite-Silver Functionalized on Polydopamine Film. <i>Advanced Materials Research</i> , 2015 , 1125, 395-400	0.5	2
210	Experimental issues in magnetic force microscopy of nanoparticles 2015 ,		17
209	Engineering 3D Cellularized Collagen Gels for Vascular Tissue Regeneration. <i>Journal of Visualized Experiments</i> , 2015 , e52812	1.6	13
208	Mathematical modeling of uniaxial mechanical properties of collagen gel scaffolds for vascular tissue engineering. <i>Scientific World Journal, The</i> , 2015 , 2015, 859416	2.2	5
207	The Potential of Nanomaterials for Drug Delivery, Cell Tracking, and Regenerative Medicine 2014. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-2	3.2	3
206	Synergistic control of sex hormones by 17βHSD type 7: a novel target for estrogen-dependent breast cancer. <i>Journal of Molecular Cell Biology</i> , 2015 , 7, 568-79	6.3	22
205	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
204	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
203	Reduced graphene oxide growth on 316L stainless steel for medical applications. <i>Nanoscale</i> , 2014 , 6, 8664-70	7.7	57
202	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
201	Degradation of 4-Chlorobenzoic Acid in a Thin Falling Film Dielectric Barrier Discharge Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 10387-10396	3.9	4
200	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
199	Mutant huntingtin is present in neuronal grafts in Huntington disease patients. <i>Annals of Neurology</i> , 2014 , 76, 31-42	9.4	130
198	Arginine-glycine-glutamine and serine-isoleucine-lysine-valine-alanine-valine modified poly(L-lactide) films: bioactive molecules used for surface grafting to guide cellular contractile phenotype. <i>Biointerphases</i> , 2014 , 9, 029002	1.8	2
197	Magnetic Properties of Mg _{0.4} Ca _{0.6} Fe ₂ O ₄ Nanoparticles Synthesized by Sol-Gel Method for Hyperthermia Treatment. <i>Key Engineering Materials</i> , 2014 , 631, 193-197	0.4	

196	Dextran grafting on PTFE surface for cardiovascular applications. <i>Biomatter</i> , 2014 , 4, e28805		9
195	Carbides and their Role in Advanced Mechanical Properties of L605 Alloy: Implications for Medical Devices. <i>Materials Science Forum</i> , 2014 , 783-786, 1354-1359	0.4	4
194	12. Advanced materials for biomedical applications 2014 , 277-332		
193	Evidence of antibacterial activity on titanium surfaces through nanotextures. <i>Applied Surface Science</i> , 2014 , 308, 275-284	6.7	47
192	Covalent Grafting of Chitosan on Plasma-Treated Polytetrafluoroethylene Surfaces for Biomedical Applications. <i>Journal of Biomaterials and Tissue Engineering</i> , 2014 , 4, 915-924	0.3	11
191	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
190	Process of prototyping coronary stents from biodegradable Fe-Mn alloys. <i>Acta Biomaterialia</i> , 2013 , 9, 8585-92	10.8	56
189	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
188	Blood protein adsorption on sulfonated chitosan and Charrageenan films. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 111, 719-25	6	43
187	Caveolin: a possible biomarker of degradable metallic materials toxicity in vascular cells. <i>Acta Biomaterialia</i> , 2013 , 9, 8754-60	10.8	4
186	Experimental data confirm numerical modeling of the degradation process of magnesium alloys stents. <i>Acta Biomaterialia</i> , 2013 , 9, 8730-9	10.8	48
185	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
184	Acta Biomaterialia Special Issue: 4th Biometal 2012, Maratea, Italy: August 27-September 1, 2012. <i>Acta Biomaterialia</i> , 2013 , 9, 8474	10.8	
183	Histological study of stem-like cells in human colon adenocarcinoma at different stages of the disease. <i>Biotechnic and Histochemistry</i> , 2013 , 88, 222-34	1.8	2
182	Gene expression profile of mouse fibroblasts exposed to a biodegradable iron alloy for stents. <i>Acta Biomaterialia</i> , 2013 , 9, 8746-53	10.8	12
181	Small-diameter vascular tissue engineering. <i>Nature Reviews Cardiology</i> , 2013 , 10, 410-21	14.8	309
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15	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
14	In vivo evaluation of hydrophobic and fibrillar microporous polyetherurethane urea graft. <i>Biomaterials</i> , 1989 , 10, 521-31	15.6	22
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9	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
8	Collagen-based wound dressing: effects of hyaluronic acid and fibronectin on wound healing. <i>Biomaterials</i> , 1986 , 7, 3-8	15.6	198
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