Andrea Bagno

List of Publications by Citations

51 papers	905 citations	15 h-index	29 g-index
55 ext. papers	1,045 ext. citations	4.6 avg, IF	3.93 L-index

#	Paper	IF	Citations
51	Surface treatments and roughness properties of Ti-based biomaterials. *Journal of Materials Science: Materials in Medicine*, **2004**, 15, 935-49	4.5	195
50	Human osteoblast-like cell adhesion on titanium substrates covalently functionalized with synthetic peptides. *Bone*, **2007**, 40, 693-9	4.7	86
49	Effect of synthetic peptides on osteoblast adhesion. *Biomaterials*, **2005**, 26, 4507-15	15.6	63
48	Electrospun scaffolds of self-assembling peptides with poly(ethylene oxide) for bone tissue engineering. *Acta Biomaterialia*, **2011**, 7, 2526-32	10.8	43
47	Covalent surface modification of titanium oxide with different adhesive peptides: surface characterization and osteoblast-like cell adhesion. *Journal of Biomedical Materials Research - Part A*, **2009**, 90, 35-45	5.4	39
46	Mechanical testing of pericardium for manufacturing prosthetic heart valves. *Interactive Cardiovascular and Thoracic Surgery*, **2016**, 22, 72-84	1.8	38
45	A sterilization method for decellularized xenogeneic cardiovascular scaffolds. *Acta Biomaterialia*, **2018**, 67, 282-294	10.8	36
44	Cells, scaffolds and bioreactors for tissue-engineered heart valves: a journey from basic concepts to contemporary developmental innovations. *European Journal of Cardio-thoracic Surgery*, **2011**, 39, 523-31	3	35
43	Mechanisms underlying the attachment and spreading of human osteoblasts: from transient interactions to focal adhesions on vitronectin-grafted bioactive surfaces. *Acta Biomaterialia*, **2013**, 9, 6105-15	10.8	33
42	In vitro comparative assessment of decellularized bovine pericardial patches and commercial bioprosthetic heart valves. *Biomedical Materials (Bristol)*, **2017**, 12, 015021	3.5	28
41	Assessment of novel chemical strategies for covalent attachment of adhesive peptides to rough titanium surfaces: XPS analysis and biological evaluation. *Journal of Biomedical Materials Research - Part A*, **2009**, 91, 463-79	5.4	28
40	Human Vitronectin-Derived Peptide Covalently Grafted onto Titanium Surface Improves Osteogenic Activity: A Pilot In Vivo Study on Rabbits. *Tissue Engineering - Part A*, **2009**, 15, 2917-26	3.9	26
39	Contact profilometry and correspondence analysis to correlate surface properties and cell adhesion in vitro of uncoated and coated Ti and Ti6Al4V disks. *Biomaterials*, **2004**, 25, 2437-45	15.6	26
38	SPPS of difficult sequences. *Chemical Biology and Drug Design*, **2009**, 49, 103-111		22
37	A Comprehensive Comparison of Bovine and Porcine Decellularized Pericardia: New Insights for Surgical Applications. *Biomolecules*, **2020**, 10,	5.9	20
36	The wavelet analysis for the assessment of microvascular function with the laser Doppler fluxmetry over the last 20 years. Looking for hidden informations. *Clinical Hemorheology and Microcirculation*, **2018**, 70, 213-229	2.5	14
35	Evaluation of silicon dioxide-based coating enriched with bioactive peptides mapped on human vitronectin and fibronectin: in vitro and in vivo assays. *Tissue Engineering*, **2006**, 12, 3509-23		13

34	Improvement of Anselmeld adhesion model for evaluating human osteoblast response to peptide-grafted titanium surfaces. *Bone*, **2007**, 41, 704-12	4.7	13
33	The Biocompatibility Challenges in the Total Artificial Heart Evolution. *Annual Review of Biomedical Engineering*, **2019**, 21, 85-110	12	12
32	Autologous chondrocytes as a novel source for neo-chondrogenesis in haemophiliacs. *Cell and Tissue Research*, **2016**, 366, 51-61	4.2	12
31	Endovascular treatment of aortic arch aneurysm with a single-branched double-stage stent graft. *Journal of Thoracic and Cardiovascular Surgery*, **2017**, 154, e75-e77	1.5	12
30	Bileaflet mechanical heart valve closing sounds: in vitro classification by phonocardiographic analysis. *Journal of Artificial Organs*, **2009**, 12, 172-81	1.8	8
29	Native Bovine and Porcine Pericardia Respond to Load With Additive Recruitment of Collagen Fibers. *Artificial Organs*, **2018**, 42, 540-548	2.6	7
28	Biofabrication of a novel leukocyte-fibrin-platelet membrane as a cells and growth factors delivery platform for tissue engineering applications. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 1891-1906	4.4	7
27	When the Total Hip Replacement Fails: A Review on the Stress-Shielding Effect. *Processes*, **2022**, 10, 612	2.9	7
26	In-vitro detection of thrombotic formation on bileaflet mechanical heart valves. *Journal of Heart Valve Disease*, **2011**, 20, 378-86		6
25	Preliminary study of laser doppler perfusion signal by wavelet transform in patients with critical limb ischemia before and after revascularization. *Clinical Hemorheology and Microcirculation*, **2014**, 58, 415-28	2.5	5
24	Changes of the cutaneous flowmotion pattern after limb revascularization in patients with critical ischemia. *Clinical Hemorheology and Microcirculation*, **2014**, 56, 347-58	2.5	5
23	Comparative classification of thrombotic formations on bileaflet mechanical heart valves by phonographic analysis. *Journal of Artificial Organs*, **2011**, 14, 100-11	1.8	5
22	Application of wavelet analysis to the phonocardiographic signal of mechanical heart valve closing sounds. *International Journal of Artificial Organs*, **2009**, 32, 166-72	1.9	5
21	An improved system for automated peptide synthesis. *Chemical Engineering and Technology*, **1995**, 18, 210-215	2	5
20	Hybrid membranes for the production of blood contacting surfaces: physicochemical, structural and biomechanical characterization. *Biomaterials Research*, **2021**, 25, 26	16.8	5
19	Wavelet analysis of the Laser Doppler signal to assess skin perfusion. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 7374-7	0.9	4
18	Automation of the liquid-phase synthesis of biopolymers. *Journal of Chemical Technology and Biotechnology*, **1998**, 71, 77-83	3.5	4
17	Biomaterials and Their Biomedical Applications: From Replacement to Regeneration. *Processes*, **2021**, 9, 1949	2.9	4

16	Wavelet transform analysis of skin perfusion during thermal stimulation. *Clinical Hemorheology and Microcirculation*, **2016**, 64, 167-175	2.5	4
15	Ultrasound phonocardiography for detecting thrombotic formations on bileaflet mechanical heart valves. *Journal of Heart Valve Disease*, **2013**, 22, 828-36		4
14	Porcine Small Intestinal Submucosa (SIS) as a Suitable Scaffold for the Creation of a Tissue-Engineered Urinary Conduit: Decellularization, Biomechanical and Biocompatibility Characterization Using New Approaches.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	4
13	Wavelet analysis of skin perfusion to assess the effects of FREMS therapy before and after occlusive reactive hyperemia. *Medical Engineering and Physics*, **2015**, 37, 1111-5	2.4	3
12	Is the analysis over the time domain or over the frequency domain significant for the detection of bileaflet mechanical heart valve dysfunction?. *Annals of Thoracic Surgery*, **2009**, 87, 986-7; author reply 987-8	2.7	3
11	Phonographic detection of mechanical heart valve thrombosis. *Journal of Artificial Organs*, **2017**, 20, 394-398	1.8	2
10	Preliminary Computational Analysis of Three Configurations for an Innovative Ventricular Chamber. *Processes*, **2020**, 8, 1358	2.9	2
9	Prosthetic valve thrombosis: When prevention is better than treatment. *American Heart Journal*, **2016**, 174, e1-2	4.9	2
8	Preliminary hemocompatibility assessment of an innovative material for blood contacting surfaces. *Journal of Materials Science: Materials in Medicine*, **2021**, 32, 86	4.5	2
7	Bridging the gap between basic research on microcirculation and clinical world: The translational marriage between engineering and medicine. *Clinical Hemorheology and Microcirculation*, **2019**, 71, 357-363	2.5	1
6	Development of artificial neural network-based algorithms for the classification of bileaflet mechanical heart valve sounds. *International Journal of Artificial Organs*, **2012**, 35, 279-87	1.9	1
5	Automation of Peptide Synthesis **2011**, 495-517		1
4	A novel algorithm for the coupling control in solid-phase peptide synthesis. *Chemical Biology and Drug Design*, **1997**, 50, 231-7		1
3	Hydrodynamic performance of heart valve prostheses: open discussion on European Committee for Standardization International Organization for Standardization standard 5840. *Journal of Thoracic and Cardiovascular Surgery*, **2010**, 139, 1356-7	1.5	1
2	Evaluation of Silicon Dioxide?Based Coating Enriched with Bioactive Peptides Mapped on Human Vitronectin and Fibronectin:In VitroandIn VivoAssays. *Tissue Engineering*, **2006**, 061115052226001		
1	DEPROTECTION MONITORING IN SPPS: CONDUCTIMETRIC VERSUS SPECTROPHOTOMETRIC TECHNIQUES **1995**, 12-16		