

Andrea Bagno

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,222
citations

394390

19
h-index

377849

34
g-index

55
all docs

55
docs citations

55
times ranked

1546
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface treatments and roughness properties of Ti-based biomaterials. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 935-949.	3.6	228
2	Human osteoblast-like cell adhesion on titanium substrates covalently functionalized with synthetic peptides. <i>Bone</i> , 2007, 40, 693-699.	2.9	92
3	Effect of synthetic peptides on osteoblast adhesion. <i>Biomaterials</i> , 2005, 26, 4507-4515.	11.4	70
4	A sterilization method for decellularized xenogeneic cardiovascular scaffolds. <i>Acta Biomaterialia</i> , 2018, 67, 282-294.	8.3	52
5	Electrospun scaffolds of self-assembling peptides with poly(ethylene oxide) for bone tissue engineering. <i>Acta Biomaterialia</i> , 2011, 7, 2526-2532.	8.3	49
6	Mechanical testing of pericardium for manufacturing prosthetic heart valves. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2016, 22, 72-84.	1.1	47
7	Covalent surface modification of titanium oxide with different adhesive peptides: Surface characterization and osteoblast-like cell adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 90A, 35-45.	4.0	46
8	Biomaterials and Their Biomedical Applications: From Replacement to Regeneration. <i>Processes</i> , 2021, 9, 1949.	2.8	45
9	Cells, scaffolds and bioreactors for tissue-engineered heart valves: a journey from basic concepts to contemporary developmental innovations. <i>European Journal of Cardio-thoracic Surgery</i> , 2011, 39, 523-531.	1.4	44
10	A Comprehensive Comparison of Bovine and Porcine Decellularized Pericardia: New Insights for Surgical Applications. <i>Biomolecules</i> , 2020, 10, 371.	4.0	42
11	Mechanisms underlying the attachment and spreading of human osteoblasts: From transient interactions to focal adhesions on vitronectin-grafted bioactive surfaces. <i>Acta Biomaterialia</i> , 2013, 9, 6105-6115.	8.3	41
12	When the Total Hip Replacement Fails: A Review on the Stress-Shielding Effect. <i>Processes</i> , 2022, 10, 612.	2.8	40
13	<i>In vitro</i> comparative assessment of decellularized bovine pericardial patches and commercial bioprosthetic heart valves. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 015021.	3.3	37
14	Assessment of novel chemical strategies for covalent attachment of adhesive peptides to rough titanium surfaces: XPS analysis and biological evaluation. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 91A, 463-479.	4.0	33
15	Human Vitronectin-Derived Peptide Covalently Grafted onto Titanium Surface Improves Osteogenic Activity: A Pilot <i>In Vivo</i> Study on Rabbits. <i>Tissue Engineering - Part A</i> , 2009, 15, 2917-2926.	3.1	33
16	Contact profilometry and correspondence analysis to correlate surface properties and cell adhesion <i>in vitro</i> of uncoated and coated Ti and Ti6Al4V disks. <i>Biomaterials</i> , 2004, 25, 2437-2445.	11.4	31
17	SPPS of difficult sequences. <i>Chemical Biology and Drug Design</i> , 1997, 49, 103-111.	1.1	27
18	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. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2826.	4.1	25

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19	The wavelet analysis for the assessment of microvascular function with the laser Doppler fluxmetry over the last 20 years. Looking for hidden informations. <i>Clinical Hemorheology and Microcirculation</i> , 2018, 70, 213-229.	1.7	24
20	Autologous chondrocytes as a novel source for neo-chondrogenesis in haemophiliacs. <i>Cell and Tissue Research</i> , 2016, 366, 51-61.	2.9	19
21	The Biocompatibility Challenges in the Total Artificial Heart Evolution. <i>Annual Review of Biomedical Engineering</i> , 2019, 21, 85-110.	12.3	17
22	Endovascular treatment of aortic arch aneurysm with a single-branched double-stage stent graft. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017, 154, e75-e77.	0.8	16
23	Evaluation of Silicon Dioxide-Based Coating Enriched with Bioactive Peptides Mapped on Human Vitronectin and Fibronectin: In Vitro and In Vivo Assays. <i>Tissue Engineering</i> , 2006, 12, 3509-3523.	4.6	15
24	Improvement of Anselme's adhesion model for evaluating human osteoblast response to peptide-grafted titanium surfaces. <i>Bone</i> , 2007, 41, 704-712.	2.9	15
25	Hybrid membranes for the production of blood contacting surfaces: physicochemical, structural and biomechanical characterization. <i>Biomaterials Research</i> , 2021, 25, 26.	6.9	12
26	Native Bovine and Porcine Pericardia Respond to Load With Additive Recruitment of Collagen Fibers. <i>Artificial Organs</i> , 2018, 42, 540-548.	1.9	11
27	Biofabrication of a novel leukocyte-fibrin-platelet membrane as a cells and growth factors delivery platform for tissue engineering applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1891-1906.	2.7	10
28	Bileaflet mechanical heart valve closing sounds: in vitro classification by phonocardiographic analysis. <i>Journal of Artificial Organs</i> , 2009, 12, 172-181.	0.9	9
29	Preliminary study of laser doppler perfusion signal by wavelet transform in patients with critical limb ischemia before and after revascularization. <i>Clinical Hemorheology and Microcirculation</i> , 2014, 58, 415-428.	1.7	8
30	An improved system for automated peptide synthesis. <i>Chemical Engineering and Technology</i> , 1995, 18, 210-215.	1.5	7
31	Wavelet transform analysis of skin perfusion during thermal stimulation. <i>Clinical Hemorheology and Microcirculation</i> , 2016, 64, 167-175.	1.7	7
32	Application of Wavelet Analysis to the Phonocardiographic Signal of Mechanical Heart Valve Closing Sounds. <i>International Journal of Artificial Organs</i> , 2009, 32, 166-172.	1.4	6
33	Comparative classification of thrombotic formations on bileaflet mechanical heart valves by phonographic analysis. <i>Journal of Artificial Organs</i> , 2011, 14, 100-111.	0.9	6
34	In-vitro detection of thrombotic formation on bileaflet mechanical heart valves. <i>Journal of Heart Valve Disease</i> , 2011, 20, 378-86.	0.5	6
35	Changes of the cutaneous flowmotion pattern after limb revascularization in patients with critical ischemia. <i>Clinical Hemorheology and Microcirculation</i> , 2014, 56, 347-358.	1.7	5
36	Wavelet analysis of the Laser Doppler signal to assess skin perfusion. , 2015, 2015, 7374-7.		5

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37	Preliminary hemocompatibility assessment of an innovative material for blood contacting surfaces. <i>Journal of Materials Science: Materials in Medicine</i> , 2021, 32, 86.	3.6	5
38	Ultrasound phonocardiography for detecting thrombotic formations on bileaflet mechanical heart valves. <i>Journal of Heart Valve Disease</i> , 2013, 22, 828-36.	0.5	5
39	A New Decellularization Protocol of Porcine Aortic Valves Using Tergitol to Characterize the Scaffold with the Biocompatibility Profile Using Human Bone Marrow Mesenchymal Stem Cells. <i>Polymers</i> , 2022, 14, 1226.	4.5	5
40	Automation of the liquid-phase synthesis of biopolymers. <i>Journal of Chemical Technology and Biotechnology</i> , 1998, 71, 77-83.	3.2	4
41	Is the Analysis Over the Time Domain or Over the Frequency Domain Significant for the Detection of Bileaflet Mechanical Heart Valve Dysfunction?. <i>Annals of Thoracic Surgery</i> , 2009, 87, 986-987.	1.3	4
42	Wavelet analysis of skin perfusion to assess the effects of FREMS therapy before and after occlusive reactive hyperemia. <i>Medical Engineering and Physics</i> , 2015, 37, 1111-1115.	1.7	4
43	Phonographic detection of mechanical heart valve thrombosis. <i>Journal of Artificial Organs</i> , 2017, 20, 394-398.	0.9	3
44	Prosthetic valve thrombosis: When prevention is better than treatment. <i>American Heart Journal</i> , 2016, 174, e1-e2.	2.7	2
45	Preliminary Computational Analysis of Three Configurations for an Innovative Ventricular Chamber. <i>Processes</i> , 2020, 8, 1358.	2.8	2
46	Characterization of Ti and Ti6Al4V Surfaces After Mechanical and Chemical Treatments: A Rational Approach to the Design of Biomedical Devices. <i>Journal of Biotechnology & Biomaterials</i> , 2012, 02, .	0.3	2
47	A novel algorithm for the coupling control in solid-phase peptide synthesis. <i>Chemical Biology and Drug Design</i> , 1997, 50, 231-237.	1.1	1
48	Hydrodynamic performance of heart valve prostheses: Open discussion on European Committee for Standardization International Organization for Standardization standard 5840. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2010, 139, 1356-1357.	0.8	1
49	Development of Artificial Neural Network-Based Algorithms for the Classification of Bileaflet Mechanical Heart Valve Sounds. <i>International Journal of Artificial Organs</i> , 2012, 35, 279-287.	1.4	1
50	Bridging the gap between basic research on microcirculation and clinical world: The translational marriage between engineering and medicine. <i>Clinical Hemorheology and Microcirculation</i> , 2019, 71, 357-363.	1.7	1
51	Automation and Control of Solid-Phase Peptide Synthesis: Methods and Technology. <i>ChemInform</i> , 2005, 36, no.	0.0	0
52	Evaluation of Silicon Dioxide-Based Coating Enriched with Bioactive Peptides Mapped on Human Vitronectin and Fibronectin: In Vitro and In Vivo Assays. <i>Tissue Engineering</i> , 2006, .	4.6	0
53	DEPROTECTION MONITORING IN SPSS: CONDUCTIMETRIC VERSUS SPECTROPHOTOMETRIC TECHNIQUES. , 1995, , 12-16.		0