

Antonio Gloria

List of Publications by Year in descending order

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109
papers

3,103
citations

117625

34
h-index

175258

52
g-index

112
all docs

112
docs citations

112
times ranked

4568
citing authors

#	ARTICLE	IF	CITATIONS
1	Alloys for Aeronautic Applications: State of the Art and Perspectives. <i>Metals</i> , 2019, 9, 662.	2.3	128
2	Towards the Design of 3D Fiber-Deposited Poly(ϵ -caprolactone)/Iron-Doped Hydroxyapatite Nanocomposite Magnetic Scaffolds for Bone Regeneration. <i>Journal of Biomedical Nanotechnology</i> , 2015, 11, 1236-1246.	1.1	125
3	Additive manufacturing of wet-spun polymeric scaffolds for bone tissue engineering. <i>Biomedical Microdevices</i> , 2012, 14, 1115-1127.	2.8	118
4	Layer-by-Layer Self-Assembly of Chitosan and Poly(γ -glutamic acid) into Polyelectrolyte Complexes. <i>Biomacromolecules</i> , 2011, 12, 4183-4195.	5.4	107
5	Collagen-low molecular weight hyaluronic acid semi-interpenetrating network loaded with gelatin microspheres for cell and growth factor delivery for nucleus pulposus regeneration. <i>Acta Biomaterialia</i> , 2015, 20, 10-21.	8.3	105
6	A comparison between mechanical properties of specimens 3D printed with virgin and recycled PLA. <i>Procedia CIRP</i> , 2019, 79, 143-146.	1.9	94
7	PLDLA/PCL-T Scaffold for Meniscus Tissue Engineering. <i>BioResearch Open Access</i> , 2013, 2, 138-147.	2.6	85
8	Rheological and mechanical properties of acellular and cell-laden methacrylated gellan gum hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 3438-3446.	4.0	84
9	Three-dimensional printed bone scaffolds: The role of nano/micro-hydroxyapatite particles on the adhesion and differentiation of human mesenchymal stem cells. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 555-564.	1.8	82
10	3D additive-manufactured nanocomposite magnetic scaffolds: Effect of the application mode of a time-dependent magnetic field on hMSCs behavior. <i>Bioactive Materials</i> , 2017, 2, 138-145.	15.6	72
11	3D fibre deposition and stereolithography techniques for the design of multifunctional nanocomposite magnetic scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 250.	3.6	65
12	Rheological Characterization of Hyaluronic Acid Derivatives as Injectable Materials Toward Nucleus Pulposus Regeneration. <i>Journal of Biomaterials Applications</i> , 2012, 26, 745-759.	2.4	64
13	Dynamic-mechanical properties of a novel composite intervertebral disc prosthesis. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 2159-2165.	3.6	63
14	Mechanical behavior of bulk direct composite versus block composite and lithium disilicate indirect Class II restorations by CAD-FEM modeling. <i>Dental Materials</i> , 2017, 33, 690-701.	3.5	63
15	Systematic Analysis of Injectable Materials and 3D Rapid Prototyped Magnetic Scaffolds: From CNS Applications to Soft and Hard Tissue Repair/Regeneration. <i>Procedia Engineering</i> , 2013, 59, 233-239.	1.2	60
16	Hydrogel-Based Platforms for the Regeneration of Osteochondral Tissue and Intervertebral Disc. <i>Polymers</i> , 2012, 4, 1590-1612.	4.5	57
17	CAD-FE modeling and analysis of class II restorations incorporating resin-composite, glass ionomer and glass ceramic materials. <i>Dental Materials</i> , 2017, 33, 1456-1465.	3.5	56
18	A Multi-component Fiber-reinforced PHEMA-based Hydrogel/HAPEX TM Device for Customized Intervertebral Disc Prosthesis. <i>Journal of Biomaterials Applications</i> , 2011, 25, 795-810.	2.4	55

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19	Regeneration of Achilles' Tendon: The Role of Dynamic Stimulation for Enhanced Cell Proliferation and Mechanical Properties. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 1173-1190.	3.5	53
20	Nanocomposites for Neurodegenerative Diseases: Hydrogel-Nanoparticle Combinations for a Challenging Drug Delivery. <i>International Journal of Artificial Organs</i> , 2011, 34, 1115-1127.	1.4	52
21	Effects of intraoral aging on surface properties of coated nickel-titanium archwires. <i>Angle Orthodontist</i> , 2014, 84, 665-672.	2.4	52
22	Bone Tissue Engineering: 3D PCL-based Nanocomposite Scaffolds with Tailored Properties. <i>Procedia CIRP</i> , 2016, 49, 51-54.	1.9	52
23	Hydrogels for nucleus replacement—Facing the biomechanical challenge. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 14, 67-77.	3.1	51
24	<i>In vitro</i> and <i>in silico</i> investigations of disc nucleus replacement. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1869-1879.	3.4	50
25	Synthesis and Characterization of Sintered Sr/Fe-Modified Hydroxyapatite Bioceramics for Bone Tissue Engineering Applications. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 375-388.	5.2	49
26	Polymer-based composite scaffolds for tissue engineering. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2010, 8, 57-67.	0.4	49
27	Multidisciplinary Perspectives for Alzheimer's and Parkinson's Diseases: Hydrogels for Protein Delivery and Cell-Based Drug Delivery as Therapeutic Strategies. <i>International Journal of Artificial Organs</i> , 2009, 32, 836-850.	1.4	48
28	Gallium-modified chitosan/poly(acrylic acid) bilayer coatings for improved titanium implant performances. <i>Carbohydrate Polymers</i> , 2017, 166, 348-357.	10.2	48
29	Mechanical behavior of endodontically restored canine teeth: Effects of ferrule, post material and shape. <i>Dental Materials</i> , 2017, 33, 1466-1472.	3.5	46
30	Further Theoretical Insight into the Mechanical Properties of Polycaprolactone Loaded with Organic-Inorganic Hybrid Fillers. <i>Materials</i> , 2018, 11, 312.	2.9	45
31	The effects of cavity-margin-angles and bolus stiffness on the mechanical behavior of indirect resin composite class II restorations. <i>Dental Materials</i> , 2017, 33, e39-e47.	3.5	43
32	A Further Analysis on Ti6Al4V Lattice Structures Manufactured by Selective Laser Melting. <i>Journal of Healthcare Engineering</i> , 2019, 2019, 1-9.	1.9	42
33	The influence of poly(ester amide) on the structural and functional features of 3D additive manufactured poly(μ -caprolactone) scaffolds. <i>Materials Science and Engineering C</i> , 2019, 98, 994-1004.	7.3	40
34	Combination Design of Time-Dependent Magnetic Field and Magnetic Nanocomposites to Guide Cell Behavior. <i>Nanomaterials</i> , 2020, 10, 577.	4.1	38
35	FE analysis of conceptual hybrid composite endodontic post designs in anterior teeth. <i>Dental Materials</i> , 2018, 34, 1063-1071.	3.5	33
36	Electrospun Scaffolds for Osteoblast Cells: Peptide-Induced Concentration-Dependent Improvements of Polycaprolactone. <i>PLoS ONE</i> , 2015, 10, e0137505.	2.5	32

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37	Design of Decorated Self-Assembling Peptide Hydrogels as Architecture for Mesenchymal Stem Cells. <i>Materials</i> , 2016, 9, 727.	2.9	32
38	Collagen density gradient on three-dimensional printed poly(μ -caprolactone) scaffolds for interface tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 321-329.	2.7	32
39	Hydrogel-based delivery of Tat-fused protein Hsp70 protects dopaminergic cells in vitro and in a mouse model of Parkinson's disease. <i>NPG Asia Materials</i> , 2019, 11, .	7.9	28
40	Experimental study on hydrodynamic performances of naval propellers to adopt new additive manufacturing processes. <i>International Journal on Interactive Design and Manufacturing</i> , 2018, 12, 1-14.	2.2	26
41	Design of 3D Additively Manufactured Hybrid Structures for Cranioplasty. <i>Materials</i> , 2021, 14, 181.	2.9	26
42	Glucosamine grafting on poly(μ -caprolactone): a novel glycated polyester as a substrate for tissue engineering. <i>RSC Advances</i> , 2013, 3, 6286.	3.6	25
43	Hydrogel-Based Nanocomposites and Mesenchymal Stem Cells: A Promising Synergistic Strategy for Neurodegenerative Disorders Therapy. <i>Scientific World Journal</i> , The, 2013, 2013, 1-9.	2.1	25
44	Viscoelastic Properties of Rapid Prototyped Magnetic Nanocomposite Scaffolds for Osteochondral Tissue Regeneration. <i>Procedia CIRP</i> , 2016, 49, 76-82.	1.9	25
45	Stress distribution of bulk-fill resin composite in class II restorations. <i>American Journal of Dentistry</i> , 2017, 30, 227-232.	0.1	25
46	Technical features and criteria in designing fiber-reinforced composite materials: from the aerospace and aeronautical field to biomedical applications. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2011, 9, 151-163.	0.4	24
47	Galactose grafting on poly(μ -caprolactone) substrates for tissue engineering: a preliminary study. <i>Carbohydrate Research</i> , 2015, 405, 39-46.	2.3	24
48	Design and Analysis of 3D Customized Models of a Human Mandible. <i>Procedia CIRP</i> , 2016, 49, 199-202.	1.9	24
49	Bioactive chitosan-based scaffolds with improved properties induced by dextran-grafted nano-magnetite and L-arginine amino acid. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1244-1252.	4.0	24
50	Breast Cancer Cell Cultures on Electrospun Poly(μ -Caprolactone) as a Potential Tool for Preclinical Studies on Anticancer Treatments. <i>Bioengineering</i> , 2021, 8, 1.	3.5	22
51	Calorimetric and Thermomechanical Properties of Titanium-Based Orthodontic Wires: DSC-DMA Relationship to Predict the Elastic Modulus. <i>Journal of Biomaterials Applications</i> , 2012, 26, 829-844.	2.4	19
52	Modification of PMMA Cements for Cranioplasty with Bioactive Glass and Copper Doped Tricalcium Phosphate Particles. <i>Polymers</i> , 2020, 12, 37.	4.5	19
53	Reverse engineering of mandible and prosthetic framework: Effect of titanium implants in conjunction with titanium milled full arch bridge prostheses on the biomechanics of the mandible. <i>Journal of Biomechanics</i> , 2014, 47, 3825-3829.	2.1	18
54	Mechanical and Thermal Properties of Dental Composites Cured with CAD/CAM Assisted Solid-State Laser. <i>Materials</i> , 2018, 11, 504.	2.9	18

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55	Stress Distributions for Hybrid Composite Endodontic Post Designs with and without a Ferrule: FEA Study. <i>Polymers</i> , 2020, 12, 1836.	4.5	17
56	Design of Additively Manufactured Lattice Structures for Biomedical Applications. <i>Journal of Healthcare Engineering</i> , 2020, 2020, 1-3.	1.9	16
57	Synthesis and characterization of divinyl-fumarate poly- $\hat{\mu}$ -caprolactone for scaffolds with controlled architectures. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e523-e531.	2.7	15
58	Mechanical characterization and modeling of downwind sailcloth in fluid-structure interaction analysis. <i>Ocean Engineering</i> , 2018, 165, 488-504.	4.3	15
59	Hydrogels for central nervous system therapeutic strategies. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2015, 229, 905-916.	1.8	14
60	Effect of in Vitro Enzymatic Degradation on 3D Printed Poly($\hat{\mu}$ -Caprolactone) Scaffolds: Morphological, Chemical and Mechanical Properties. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2017, 15, 185-195.	1.6	14
61	Strategies for the design of additively manufactured nanocomposite scaffolds for hard tissue regeneration. <i>Acta IMEKO (2012)</i> , 2020, 9, 53.	0.7	14
62	Poly($\hat{\mu}$ -Caprolactone) Reinforced with Sol-Gel Synthesized Organic-Inorganic Hybrid Fillers as Composite Substrates for Tissue Engineering. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2010, 8, 146-152.	0.4	13
63	Theoretical Design of Multilayer Dental Posts Using CAD-Based Approach and Sol-Gel Chemistry. <i>Materials</i> , 2018, 11, 738.	2.9	13
64	Additive manufacturing and technical strategies for improving outcomes in breast reconstructive surgery. <i>Acta IMEKO (2012)</i> , 2020, 9, 74.	0.7	12
65	3D fiber deposition technique to make multifunctional and tailor-made scaffolds for tissue engineering applications. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2009, 7, 141-52.	0.4	12
66	Nipple Sparing Mastectomy as a Risk-Reducing Procedure for BRCA-Mutated Patients. <i>Genes</i> , 2021, 12, 253.	2.4	11
67	Novel concepts and strategies in skull base reconstruction after endoscopic endonasal surgery. <i>Acta IMEKO (2012)</i> , 2020, 9, 67.	0.7	11
68	Development and Analysis of Semi-Interpenetrating Polymer Networks for Brain Injection in Neurodegenerative Disorders. <i>International Journal of Artificial Organs</i> , 2013, 36, 762-774.	1.4	10
69	An analysis on the potential of diode-pumped solid-state lasers for dental materials. <i>Materials Science and Engineering C</i> , 2018, 92, 862-867.	7.3	10
70	A 3D Printed Composite Scaffold Loaded with Clodronate to Regenerate Osteoporotic Bone: In Vitro Characterization. <i>Polymers</i> , 2021, 13, 150.	4.5	10
71	Low-Velocity Impacts on a Polymeric Foam for the Passive Safety Improvement of Sports Fields: Meshless Approach and Experimental Validation. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1174.	2.5	9
72	3D laser scanning in conjunction with surface texturing to evaluate shift and reduction of the tibiofemoral contact area after meniscectomy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 88, 41-47.	3.1	9

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73	A Preliminary Evaluation of the Pro-Chondrogenic Potential of 3D-Bioprinted Poly(ester Urea) Scaffolds. <i>Polymers</i> , 2020, 12, 1478.	4.5	9
74	From 3D Hierarchical Scaffolds for Tissue Engineering to Advanced Hydrogel-Based and Complex Devices for in situ Cell or Drug Release. <i>Procedia CIRP</i> , 2016, 49, 72-75.	1.9	8
75	The axillary flap in oncoplastic resection of breast cancers located in the upper-outer quadrants: a new surgical technique. <i>BMC Surgery</i> , 2019, 18, 21.	1.3	8
76	Impact of Magnetic Stimulation on Periodontal Ligament Stem Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 188.	4.1	8
77	Preparation of electrospun nanofibrous polycaprolactone scaffolds using nontoxic ethylene carbonate and glacial acetic acid solvent system. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48387.	2.6	7
78	EAK Hydrogels Cross-Linked by Disulfide Bonds: Cys Number and Position Are Matched to Performances. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1154-1164.	5.2	7
79	Poly(μ -caprolactone) reinforced with sol-gel synthesized organic-inorganic hybrid fillers as composite substrates for tissue engineering. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2010, 8, 146-52.	0.4	7
80	Skull base reconstruction after endoscopic endonasal surgery: new strategies for raising the dam. , 2019, , .		6
81	Reverse Engineering and Additive Manufacturing towards the design of 3D advanced scaffolds for hard tissue regeneration. , 2019, , .		6
82	Metal Posts and the Effect of Materialâ€œShape Combination on the Mechanical Behavior of Endodontically Treated Anterior Teeth. <i>Metals</i> , 2019, 9, 125.	2.3	6
83	Effect of Topical Antiinflammatory Drugs on Mechanical Behavior of Rabbit Cornea. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2017, 15, 142-148.	1.6	5
84	Analyzing the Role of Magnetic Features in Additive Manufactured Scaffolds for Enhanced Bone Tissue Regeneration. <i>Macromolecular Symposia</i> , 2021, 396, 2000314.	0.7	5
85	An Augmented Reality Approach to Remote Controlling Measurement Instruments for Educational Purposes During Pandemic Restrictions. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-20.	4.7	5
86	Magnetism in Dentistry: Review and Future Perspectives. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 95.	2.5	5
87	PCL and PCL/PLA <i>>Scaffolds</i> for Bone Tissue Regeneration. <i>Advanced Materials Research</i> , 0, 683, 168-171.	0.3	4
88	Improving Outcomes in Breast Reconstruction: From Implant-based Techniques towards Tissue Regeneration. <i>Procedia CIRP</i> , 2016, 49, 23-27.	1.9	4
89	Improving Outcomes In Breast Reconstruction: From Implant-Based Techniques Towards Tissue Regeneration. <i>Procedia CIRP</i> , 2016, 49, 183-187.	1.9	4
90	Additive manufacturing and tissue engineering to improve outcomes in breast reconstructive surgery. , 2019, , .		4

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91	Design of Functional Polymer and Composite Scaffolds for the Regeneration of Bone, Menisci, Osteochondral and Peripheral Nervous Tissues. <i>Advanced Materials Research</i> , 2011, 324, 8-13.	0.3	3
92	Design of Additively Manufactured Lattice Structures for Tissue Regeneration. <i>Materials Science Forum</i> , 2018, 941, 2154-2159.	0.3	3
93	Optical characterizations of airless radial tire. , 2020, , .		3
94	Recent Patents on Light Curing of Dental Materials. <i>Recent Patents on Biomedical Engineering</i> , 2009, 2, 97-109.	0.5	3
95	Mechanical and Biological Characteristics of Electrospun PCL Meshes – the Influence of Solvent Type and Concentration. <i>Advanced Materials Research</i> , 0, 683, 137-140.	0.3	2
96	Comparison of Commonly Used Sail Cloths through Photogrammetric Acquisitions, Experimental Tests and Numerical Aerodynamic Simulations. <i>Procedia Manufacturing</i> , 2017, 11, 1651-1658.	1.9	2
97	NMR Structure of the FIV gp36 C-terminal Heptad Repeat and Membrane-Proximal External Region. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2037.	4.1	2
98	Effect of light curing and dark reaction phases on the thermomechanical properties of a Bis-GMA based dental restorative material. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2009, 7, 132-40.	0.4	2
99	On the Suitability of Augmented Reality for Safe Experiments on Radioactive Materials in Physics Educational Applications. <i>IEEE Access</i> , 2022, 10, 54185-54196.	4.2	2
100	Sol-gel synthesis and characterization of SiO ₂ /PEG hybrid materials containing quercetin as implants with antioxidant properties. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	1
101	PEOT/PBT Polymeric Pastes to Fabricate Additive Manufactured Scaffolds for Tissue Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 704185.	4.1	1
102	A Further Investigation Toward the Design of Topology Optimized Solid-Lattice Hybrid Structures for Biomedical Applications. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 514-523.	0.4	1
103	Sol-gel silica-based nanocomposites containing a high PEG amount: Chemical characterization and study of biological properties. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
104	Towards Adaptive Switches through implementation of visual feedback in assistive devices. , 2019, , .		0
105	Towards the development of interfaces for students with speech disorder and motor impairments. <i>Procedia Manufacturing</i> , 2019, 38, 455-463.	1.9	0
106	Integrated Design Strategy for Additively Manufactured Scaffolds in Tissue Engineering. <i>Macromolecular Symposia</i> , 2021, 395, 2000263.	0.7	0
107	Photo-curing 3D Printing and Innovative Design of Porous Composite Structures for Biomedical Applications. <i>Macromolecular Symposia</i> , 2021, 395, 2000234.	0.7	0
108	Optimization Design Strategy for Additive Manufacturing Process to Develop 3D Magnetic Nanocomposite Scaffolds. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 948-958.	0.4	0

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109	A Preliminary Analysis of the Effects of Process Parameters on the Impact Resistance of 3D Printed PETG and HIPS. Lecture Notes in Mechanical Engineering, 2022, , 524-534.	0.4	0