

# Alessandra Giuliani

## List of Publications by Year in descending order

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72  
papers

1,238  
citations

393982

19  
h-index

395343

33  
g-index

74  
all docs

74  
docs citations

74  
times ranked

1821  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three Years After Transplants in Human Mandibles, Histological and In-Line Holotomography Revealed That Stem Cells Regenerated a Compact Rather Than a Spongy Bone: Biological and Clinical Implications. <i>Stem Cells Translational Medicine</i> , 2013, 2, 316-324.	1.6	149
2	Bulk and interface investigations of scaffolds and tissue-engineered bones by X-ray microtomography and X-ray microdiffraction. <i>Biomaterials</i> , 2007, 28, 2505-2524.	5.7	110
3	Bone Turnover in Wild Type and Pleiotrophin-Transgenic Mice Housed for Three Months in the International Space Station (ISS). <i>PLoS ONE</i> , 2012, 7, e33179.	1.1	78
4	Human DPSCs fabricate vascularized woven bone tissue: a new tool in bone tissue engineering. <i>Clinical Science</i> , 2017, 131, 699-713.	1.8	73
5	Altered bone development and turnover in transgenic mice overexpressing Lipocalin $\alpha$ 2 in bone. <i>Journal of Cellular Physiology</i> , 2013, 228, 2210-2221.	2.0	50
6	Osteogenic potential of dualblocks cultured with human periodontal ligament stem cells: <i>in vitro</i> and synchrotron microtomography study. <i>Journal of Periodontal Research</i> , 2016, 51, 112-124.	1.4	48
7	Microstructural characterization and <i>in vitro</i> bioactivity of porous glass-ceramic scaffolds for bone regeneration by synchrotron radiation X-ray microtomography. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1553-1565.	2.8	47
8	In Vivo Regenerative Properties of Coralline-Derived (Biocoral) Scaffold Grafts in Human Maxillary Defects: Demonstrative and Comparative Study with Beta-Tricalcium Phosphate and Biphasic Calcium Phosphate by Synchrotron Radiation X-Ray Microtomography. <i>Clinical Implant Dentistry and Related Research</i> , 2014, 16, 736-750.	1.6	36
9	Polyglycolic Acid-Polylactic Acid Scaffold Response to Different Progenitor Cell <i>In Vitro</i> Cultures: A Demonstrative and Comparative X-Ray Synchrotron Radiation Phase-Contrast Microtomography Study. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 308-316.	1.1	32
10	Organization of Extracellular Matrix Fibers Within Polyglycolic Acid-Polylactic Acid Scaffolds Analyzed Using X-Ray Synchrotron-Radiation Phase-Contrast Micro Computed Tomography. <i>Tissue Engineering - Part C: Methods</i> , 2009, 15, 403-411.	1.1	31
11	Quantitative Kinetics Evaluation of Blocks Versus Granules of Biphasic Calcium Phosphate Scaffolds (HA/ $\beta$ -TCP 30/70) by Synchrotron Radiation X-ray Microtomography. <i>Implant Dentistry</i> , 2016, 25, 6-15.	1.7	30
12	Histological and Synchrotron Radiation-Based Computed Microtomography Study of 2 Human-Retrieved Direct Laser Metal Formed Titanium Implants. <i>Implant Dentistry</i> , 2013, 22, 175-181.	1.7	28
13	Effects of long time exposure to simulated micro- and hypergravity on skeletal architecture. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 51, 1-12.	1.5	27
14	Biomechanical performances of PCL/HA micro- and macro-porous lattice scaffolds fabricated via laser powder bed fusion for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2021, 128, 112300.	3.8	27
15	High-resolution X-ray microtomography for three-dimensional imaging of cardiac progenitor cell homing in infarcted rat hearts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, e168-e178.	1.3	23
16	Case Report: Histological and Histomorphometrical Results of a 3-D Printed Biphasic Calcium Phosphate Ceramic 7 Years After Insertion in a Human Maxillary Alveolar Ridge. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 614325.	2.0	23
17	Microleakage Analysis of Different Bulk-Filling Techniques for Class II Restorations: $\mu$ -CT, SEM and EDS Evaluations. <i>Materials</i> , 2021, 14, 31.	1.3	22
18	Relaxation of residual stress in MMC after combined plastic deformation and heat treatment. <i>Scripta Materialia</i> , 2004, 51, 999-1004.	2.6	20

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19	Synchrotron Phase Tomography: An Emerging Imaging Method for Microvessel Detection in Engineered Bone of Craniofacial Districts. <i>Frontiers in Physiology</i> , 2017, 8, 769.	1.3	20
20	High-Resolution X-Ray Tomography: A 3D Exploration Into the Skeletal Architecture in Mouse Models Submitted to Microgravity Constraints. <i>Frontiers in Physiology</i> , 2018, 9, 181.	1.3	20
21	Jawbone remodeling: a conceptual study based on Synchrotron High-resolution Tomography. <i>Scientific Reports</i> , 2020, 10, 3777.	1.6	20
22	Purified collagen I oriented membrane for tendon repair: An ex vivo morphological study. <i>Journal of Orthopaedic Research</i> , 2013, 31, 738-745.	1.2	19
23	Role of Cortico-Cancellous Heterologous Bone in Human Periodontal Ligament Stem Cell Xeno-Free Culture Studied by Synchrotron Radiation Phase-Contrast Microtomography. <i>International Journal of Molecular Sciences</i> , 2017, 18, 364.	1.8	19
24	Zirconia enriched dental adhesive: A solution for OCT contrast enhancement. Demonstrative study by synchrotron radiation microtomography. <i>Dental Materials</i> , 2014, 30, 417-423.	1.6	18
25	Osteogenic Potential of Bovine Bone Graft in Combination with Laser Photobiomodulation: An Ex Vivo Demonstrative Study in Wistar Rats by Cross-Linked Studies Based on Synchrotron Microtomography and Histology. <i>International Journal of Molecular Sciences</i> , 2020, 21, 778.	1.8	18
26	Morphological, physiological and behavioural evaluation of a $\mu$ Mice in Space $\mu$ ™ housing system. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2009, 179, 519-533.	0.7	16
27	The Bacterial Anti-Adhesive Activity of Double-Etched Titanium (DAE) as a Dental Implant Surface. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8315.	1.8	16
28	Regenerative properties of collagenated porcine bone grafts in human maxilla: demonstrative study of the kinetics by synchrotron radiation microtomography and light microscopy. <i>Clinical Oral Investigations</i> , 2018, 22, 505-513.	1.4	15
29	Advanced 3D Imaging of Uterine Leiomyoma $\mu$ ™s Morphology by Propagation-based Phase-Contrast Microtomography. <i>Scientific Reports</i> , 2019, 9, 10580.	1.6	15
30	Molecular, Cellular and Pharmaceutical Aspects of Bone Grafting Materials and Membranes During Maxillary Sinus-lift Procedures. Part 2: Detailed Characteristics of the Materials. <i>Current Pharmaceutical Biotechnology</i> , 2017, 18, 33-44.	0.9	15
31	Neutron and synchrotron radiation non-destructive methods for the characterisation of materials for different applications. <i>Journal of Alloys and Compounds</i> , 2004, 382, 39-45.	2.8	14
32	Novel insight into stem cell trafficking in dystrophic muscles. <i>International Journal of Nanomedicine</i> , 2012, 7, 3059.	3.3	14
33	Histological and synchrotron radiation-based computed microtomography study of 2 human-retrieved direct laser metal formed titanium implants. <i>Implant Dentistry</i> , 2013, 22, 175-81.	1.7	12
34	Neutron diffraction measurements for the determination of heat treatment effectiveness in generating compressive residual stress in an automotive crown gear. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 925-926.	1.3	10
35	Some applications of nanotechnologies in stem cells research. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 165, 139-147.	1.7	10
36	Bisphosphonate-related osteonecrosis of the human jaw: A combined 3D assessment of bone descriptors by histology and synchrotron radiation-based microtomography. <i>Oral Oncology</i> , 2018, 82, 200-202.	0.8	10

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37	Comparative Study between Laser Light Stereo-Lithography 3D-Printed and Traditionally Sintered Biphasic Calcium Phosphate Scaffolds by an Integrated Morphological, Morphometric and Mechanical Analysis. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3118.	1.8	10
38	Uterine leiomyoma as useful model to unveil morphometric and macromolecular collagen state and impairment in fibrotic diseases: An ex-vivo human study. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022, 1868, 166494.	1.8	10
39	Comparison of three different bulk-filling techniques for restoring class II cavities: $\mu$ CT, SEM-EDS combined analyses for margins and internal fit assessments. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 124, 104812.	1.5	9
40	Non-destructive compositional analysis of historic organ reed pipes. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 104250.	0.7	8
41	Residual stress analysis in aerospace MMC materials by neutron diffraction. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1701-s1703.	1.1	7
42	The Symmetric 3D Organization of Connective Tissue around Implant Abutment: A Key-Issue to Prevent Bone Resorption. <i>Symmetry</i> , 2021, 13, 1126.	1.1	6
43	Molecular, Cellular and Pharmaceutical Aspects of Bone Grafting Materials and Membranes During Maxillary Sinus-lift Procedures. Part 1: A General Overview. <i>Current Pharmaceutical Biotechnology</i> , 2017, 18, 19-32.	0.9	6
44	Neutron diffraction measurements for the determination of residual stresses in MMC tensile and fatigue specimens. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 923-924.	1.3	4
45	Neutron-diffraction measurements for residual stress analysis in automotive steel gears. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1698-s1700.	1.1	4
46	A new method based on hard x-ray diffraction for the investigation of archaeological artefacts. <i>Measurement Science and Technology</i> , 2006, 17, L1-L3.	1.4	4
47	Residual Stress Analysis in Reed Pipe Brass Tongues of Historic Organs. <i>Materials Science Forum</i> , 2006, 524-525, 969-974.	0.3	3
48	Defect Analysis on Optical Waveguide Arrays by Synchrotron Radiation Microtomography. <i>IEEE Transactions on Device and Materials Reliability</i> , 2011, 11, 548-550.	1.5	3
49	Synchrotron Radiation and Nanotechnology for Stem Cell Research. , 0, , .		3
50	Three-dimensional microarchitecture and local mineralization of human jaws affected by bisphosphonate-related osteonecrosis. <i>Oral Oncology</i> , 2018, 84, 128-130.	0.8	3
51	Could the Enrichment of a Biomaterial with Conditioned Medium or Extracellular Vesicles Modify Bone-Remodeling Kinetics during a Defect Healing? Evaluations on Rat Calvaria with Synchrotron-Based Microtomography. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2336.	1.3	3
52	Micro-computed tomography for assessing the internal and external voids of bulk-fill composite restorations: A technical report. <i>Imaging Science in Dentistry</i> , 2022, 52, 303.	0.6	3
53	Residual stress determination in several MMC samples submitted to different operating conditions. <i>Journal of Neutron Research</i> , 2001, 9, 107-117.	0.4	2
54	Imagistic Evaluation of the Orthodontics Interfaces. <i>Advanced Engineering Forum</i> , 0, 8-9, 317-326.	0.3	2

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55	Phase-contrast microtomography: are the tracers necessary for stem cell tracking in infarcted hearts?. Biomedical Physics and Engineering Express, 2018, 4, 055008.	0.6	2
56	Integrated 3D Information for Custom-Made Bone Grafts: Focus on Biphasic Calcium Phosphate Bone Substitute Biomaterials. International Journal of Environmental Research and Public Health, 2020, 17, 4931.	1.2	2
57	X-ray and neutron diffraction determination of residual stresses in a pressed and welded component. Physica B: Condensed Matter, 2000, 276-278, 876-877.	1.3	1
58	Residual stress analysis on AA6061+22% Al <sub>2</sub> O <sub>3</sub> p simple shape demonstrators of a wheel hub. Physica B: Condensed Matter, 2004, 350, E495-E498.	1.3	1
59	Neutron diffraction measurement of residual stresses in CFC/Cu/CuCrZr joints for nuclear fusion technology. Journal of Physics Condensed Matter, 2008, 20, 104260.	0.7	1
60	The Physiology and Mechanism of Growth. World Review of Nutrition and Dietetics, 2016, 114, 1-20.	0.1	1
61	Analysis of bone response to dental bone grafts by advanced physical techniques. , 2017, , 229-246.		1
62	Interactions between tissues, cells, and biomaterials: an advanced evaluation by synchrotron radiation-based high-resolution tomography. , 2019, , 1-34.		1
63	Biphasic Calcium Phosphate Biomaterials: Stem Cell-Derived Osteoinduction or In Vivo Osteoconduction? Novel Insights in Maxillary Sinus Augmentation by Advanced Imaging. Materials, 2021, 14, 2159.	1.3	1
64	Synchrotron Radiation and Nanotechnology for Stem Cell Researchers. , 2012, , 81-102.		1
65	Determination of the residual stress in a centrifuge bowl by neutron diffraction. Applied Physics A: Materials Science and Processing, 2002, 74, s1406-s1408.	1.1	0
66	Residual Stress Analysis on AA6061+22 vol.% Al <sub>2</sub> O <sub>3</sub> Rear Wheel Hubs. Journal of Neutron Research, 2004, 12, 51-56.	0.4	0
67	Residual stress analysis on tensile MMC specimens after loading/unloading tests in several conditions. Physica B: Condensed Matter, 2004, 350, E499-E501.	1.3	0
68	Analysis of neutron diffraction profiles in bronze archaeological statuettes produced by solid lost wax casting. Journal of Physics Condensed Matter, 2008, 20, 104251.	0.7	0
69	Micro-CT application for infiltration technology in paedodontics and orthodontics. , 2014, , .		0
70	Advanced Synchrotron Radiation and Neutron Scattering Techniques for Microstructural Characterization in Industrial Research. Key Engineering Materials, 0, 750, 53-66.	0.4	0
71	Into the Heart: What Contributions to Cardiac Regeneration?. Fundamental Biomedical Technologies, 2018, , 181-194.	0.2	0
72	Osteo-regeneration personalized for children by rapid maxillary expansion: an imaging study based on synchrotron radiation microtomography. BMC Oral Health, 2018, 18, 125.	0.8	0