Federico Davide Mussano

List of Publications by Year
in descending order

72 papers	1,873 citations	293460 24 h-index	312153 41 g-index
77 all docs	77 docs citations	77 times ranked	2997 citing authors

#	Article	IF	Citations
1	CD73/Adenosine Pathway Involvement in the Interaction of Non-Small Cell Lung Cancer Stem Cells and Bone Cells in the Pre-Metastatic Niche. International Journal of Molecular Sciences, 2022, 23, 5126.	1.8	9
2	Disinfection and Biocompatibility of Titanium Surfaces Treated with Glycine Powder Airflow and Triple Antibiotic Mixture: An In Vitro Study. Materials, 2022, 15, 4850.	1.3	18
3	Using a Preoperative Scan Digital Impression and a Digital Index to Build Immediate Interim Full-Arch Implant-Supported Prosthesis. A Case Report and Proof of Concept. Applied Sciences (Switzerland), 2021, 11, 996.	1.3	2
4	Bioactivation of Bovine Bone Matrix and Collagen Scaffold Using Argon Plasma: In Vitro Study. International Journal of Oral and Maxillofacial Implants, 2021, 36, 242-247.	0.6	0
5	Isolation and Characterization of Buccal Fat Pad and Dental Pulp MSCs from the Same Donor. Biomedicines, 2021, 9, 265.	1.4	9
6	Biohybrid Bovine Bone Matrix for Controlled Release of Mesenchymal Stem/Stromal Cell Lyosecretome: A Device for Bone Regeneration. International Journal of Molecular Sciences, 2021, 22, 4064.	1.8	9
7	Early Biological Response of an Ultra-Hydrophilic Implant Surface Activated by Salts and Dry Technology: An In-Vitro Study. Applied Sciences (Switzerland), 2021, 11, 6120.	1.3	10
8	Evaluation of internal and external hexagon connections in immediately loaded fullâ€arch rehabilitations: A withinâ€person randomized splitâ€mouth controlled trial with a 3â€year followâ€up. Clinical Implant Dentistry and Related Research, 2021, 23, 562-567.	1.6	8
9	Oral Cavity as a Source of Mesenchymal Stem Cells Useful for Regenerative Medicine in Dentistry. Biomedicines, 2021, 9, 1085.	1.4	18
10	Micro-CT processingâ€™s effects on microscopic appearance of human fetal cardiac samples. Legal Medicine, 2021, 53, 101934.	0.6	6
11	Endothelial Heme Dynamics Drive Cancer Cell Metabolism by Shaping the Tumor Microenvironment. Biomedicines, 2021, 9, 1557.	1.4	5
12	Electron-Beam-Induced Grafting of Chitosan onto HDPE/ATZ Composites for Biomedical Applications. Polymers, 2021, 13, 4016.	2.0	1
13	Endothelial Cells Promote Osteogenesis by Establishing a Functional and Metabolic Coupling With Human Mesenchymal Stem Cells. Frontiers in Physiology, 2021, 12, 813547.	1.3	3
14	Beta1-integrin and TRPV4 are involved in osteoblast adhesion to different titanium surface topographies. Applied Surface Science, 2020, 507, 145112.	3.1	8
15	Effects of argon plasma treatment on the osteoconductivity of bone grafting materials. Clinical Oral Investigations, 2020, 24, 2611-2623.	1.4	11
16	Individual mandibular movement registration and reproduction using an optoeletronic jaw movement analyzer and a dedicated robot: a dental technique. BMC Oral Health, 2020, 20, 271.	0.8	15
17	Advances on Bone Substitutes through 3D Bioprinting. International Journal of Molecular Sciences, 2020, 21, 7012.	1.8	85
18	MORPHEUS: An automated tool for unbiased and reproducible cell morphometry. Journal of Cellular Physiology, 2020, 235, 10110-10115.	2.0	5

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19	Surface bio-functionalization using plasma of argon could alter microbiological and topographic surface analysis of dental implants?. Annals of Anatomy, 2020, 230, 151489.	1.0	7
20	Fibroblast Interaction with Different Abutment Surfaces: In Vitro Study. International Journal of Molecular Sciences, 2020, 21, 1919.	1.8	20
21	A Novel Method to Optimize Autologous Adipose Tissue Recovery with Extracellular Matrix Preservation. Processes, 2020, 8, 88.	1.3	6
22	The role of different dry-mixing techniques on the mechanical and biological behavior of UHMWPE/alumina-zirconia composites for biomedical applications. European Polymer Journal, 2019, 120, 109274.	2.6	22
23	The Crosstalk Between Osteodifferentiating Stem Cells and Endothelial Cells Promotes Angiogenesis and Bone Formation. Frontiers in Physiology, 2019, 10, 1291.	1.3	36
24	The role of alumina-zirconia loading on the mechanical and biological properties of UHMWPE for biomedical applications. Composites Part B: Engineering, 2019, 164, 800-808.	5.9	39
25	The influence of boneâ€graft bioâ€functionalization with plasma of argon on bacterial contamination. Journal of Biomedical Materials Research - Part A, 2019, 107, 67-70.	2.1	9
26	Concentrated adipose tissue infusion for the treatment of knee osteoarthritis: clinical and histological observations. International Orthopaedics, 2019, 43, 15-23.	0.9	55
27	Energy dispersion spectroscopy analysis on failed implants: a preliminary survey. Minerva Stomatologica: A Journal on Dentirstry and Maxillofacial Surgery, 2019, 68, 177-182.	1.3	0
28	Hydrogenated amorphous silicon coatings may modulate gingival cell response. Applied Surface Science, 2018, 436, 603-612.	3.1	15
29	Plasma of argon enhances the adhesion of murine osteoblasts on different graft materials. Annals of Anatomy, 2018, 218, 265-270.	1.0	15
30	Heme accumulation in endothelial cells impairs angiogenesis by triggering paraptosis. Cell Death and Differentiation, 2018, 25, 573-588.	5.0	78
31	Effect of Bioactivation on Traditional Surfaces and Zirconium Nitride: Adhesion and Proliferation of Preosteoblastic Cells and Bacteria. International Journal of Oral and Maxillofacial Implants, 2018, 33, 1247-1254.	0.6	18
32	Nanoroughness, Surface Chemistry, and Drug Delivery Control by Atmospheric Plasma Jet on Implantable Devices. ACS Applied Materials & Interfaces, 2018, 10, 39512-39523.	4.0	41
33	Promising Antimicrobial Properties of Silicon-Based Thin-Film Coatings. , 2018, , 153-164.		0
34	Early Response of Fibroblasts and Epithelial Cells to Pink-Shaded Anodized Dental Implant Abutments: An In Vitro Study. International Journal of Oral and Maxillofacial Implants, 2018, 33, 571-579.	0.6	27
35	Adipose-Derived Stromal Vascular Fraction/Xenohybrid Bone Scaffold: An Alternative Source for Bone Regeneration. Stem Cells International, 2018, 2018, 1-11.	1.2	36
36	Nano-Pore Size of Alumina Affects Osteoblastic Response. International Journal of Molecular Sciences, 2018, 19, 528.	1.8	22

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37	Osteogenic Differentiation Modulates the Cytokine, Chemokine, and Growth Factor Profile of ASCs and SHED. International Journal of Molecular Sciences, 2018, 19, 1454.	1.8	31
38	Apical periodontitis: preliminary assessment of microbiota by 16S rRNA high throughput amplicon target sequencing. BMC Oral Health, 2018, 18, 55.	0.8	26
39	In vitro characterization of two different atmospheric plasma jet chemical functionalizations of titanium surfaces. Applied Surface Science, 2017, 409, 314-324.	3.1	24
40	Role of surface finishing on the in vitro biological properties of a silicon nitrideâ€“titanium nitride (Si3N4â€“TiN) composite. Journal of Materials Science, 2017, 52, 467-477.	1.7	20
41	Morphometric Changes Induced by Cold Argon Plasma Treatment on Osteoblasts Grown on Different Dental Implant Surfaces. International Journal of Periodontics and Restorative Dentistry, 2017, 37, 541-548.	0.4	23
42	Plasma of Argon Increases Cell Attachment and Bacterial Decontamination on Different Implant Surfaces. International Journal of Oral and Maxillofacial Implants, 2017, 32, 1315-1323.	0.6	45
43	Cytokine, Chemokine, and Growth Factor Profile Characterization of Undifferentiated and Osteoinduced Human Adipose-Derived Stem Cells. Stem Cells International, 2017, 2017, 1-11.	1.2	38
44	Surface Treatments and Functional Coatings for Biocompatibility Improvement and Bacterial Adhesion Reduction in Dental Implantology. Coatings, 2016, 6, 7.	1.2	113
45	Overcoming physical constraints in bone engineering: â€˜the importance of being vascularizedâ€™. Journal of Biomaterials Applications, 2016, 30, 940-951.	1.2	31
46	Plasma of Argon Affects the Earliest Biological Response of Different Implant Surfaces. Journal of Dental Research, 2016, 95, 566-573.	2.5	85
47	Cytokine, chemokine, and growth factor profile of platelet-rich plasma. Platelets, 2016, 27, 467-471.	1.1	126
48	Transglutaminase 2 May Be Associated with Peri-implant Gingival Overgrowth: Preliminary Assessments. International Journal of Prosthodontics, 2015, 28, 615-620.	0.7	1
49	An Alumina Toughened Zirconia Composite for Dental Implant Application:In VivoAnimal Results. BioMed Research International, 2015, 2015, 1-9.	0.9	50
50	Biomaterials for dental implants: current and future trends. Journal of Materials Science, 2015, 50, 4779-4812.	1.7	158
51	Reduction of bacterial adhesion on dental composite resins by siliconâ€“oxygen thin film coatings. Biomedical Materials (Bristol), 2015, 10, 015017.	1.7	19
52	Aluminaâ€“zirconia composites functionalized with laminin-1 and laminin-5 for dentistry: Effect of protein adsorption on cellular response. Colloids and Surfaces B: Biointerfaces, 2014, 114, 284-293.	2.5	22
53	Presence of osteoinductive factors in bovine colostrum. Bioscience, Biotechnology and Biochemistry, 2014, 78, 662-671.	0.6	7
54	Immediate Postextractive Dental Implant Placement with Immediate Loading on Four Implants for Mandibularâ€Fullâ€Arch Rehabilitation: A Retrospective Analysis. Clinical Implant Dentistry and Related Research, 2013, 15, 332-340.	1.6	28

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55	Biological components in a standardized derivative of bovine colostrum. Journal of Dairy Science, 2013, 96, 1745-1754.	1.4	38
56	Healing properties of implants inserted concomitantly with anorganic bovine bone. A histomorphometric human study. Australian Dental Journal, 2013, 58, 57-66.	0.6	8
57	Guiding the osteogenic fate of mouse and human mesenchymal stem cells through feedback system control. Scientific Reports, 2013, 3, 3420.	1.6	48
58	The Effect of Glycine-Powder Airflow and Hand Instrumentation on Peri-implant Soft Tissues: A Split-Mouth Pilot Study. International Journal of Prosthodontics, 2013, 26, 42-44.	0.7	24
59	Immediate postextraction implant placement with immediate loading for maxillary full-arch rehabilitation. Journal of the American Dental Association, 2012, 143, 124-133.	0.7	19
60	Application of feedback system control (FSC) to identify the optimized osteogenic drug cocktails. , 2011, , .		0
61	Circadian Rhythm and Cartilage Extracellular Matrix Genes in Osseointegration: A Genome-Wide Screening of Implant Failure by Vitamin D Deficiency. PLoS ONE, 2011, 6, e15848.	1.1	50
62	179: BMP-2 MAY NOT INFLUENCE THE OSTEOGENIC FATE OF HUMAN ADIPOSE-DERIVED STEM CELLS. Plastic and Reconstructive Surgery, 2011, 127, 98.	0.7	0
63	AlNx and a-SiOx coatings with corrosion resistance properties for dental implants. Surface and Coatings Technology, 2011, 206, 1109-1115.	2.2	16
64	Adipose-derived Stem cells and BMP2: Part 2. BMP2 may not influence the osteogenic fate of human adipose-derived stem cells. Connective Tissue Research, 2011, 52, 119-132.	1.1	53
65	Differential effect of ionizing radiation exposure on multipotent and differentiationâ€restricted bone marrow mesenchymal stem cells. Journal of Cellular Biochemistry, 2010, 111, 322-332.	1.2	31
66	aâ€SiO_x Coatings Grown on Dental Materials by PECVD: Compositional Analysis and Preliminary Investigation of Biocompatibility Improvements. Chemical Vapor Deposition, 2010, 16, 29-34.	1.4	9
67	Low temperature growth of thin film coatings for the surface modification of dental prostheses. Surface and Coatings Technology, 2008, 202, 2477-2481.	2.2	18
68	Bone Morphogenetic Proteins and Bone Defects. Spine, 2007, 32, 824-830.	1.0	38
69	Oxidic Composite for Dental Purposes: Effect of the Laminin 1 Adsorption on Cells Growth. Applied Mechanics and Materials, 0, 302, 104-108.	0.2	0
70	Possible Role of Microcrystallinity on Surface Properties of Titanium Surfaces for Biomedical Application. , 0, , .		0
71	Ceramic Biomaterials for Dental Implants: Current Use and Future Perspectives. , 0, , .		5
72	Evaluation of the immune state activation in patients affected by ONJ: preliminary data. Qeios, 0, , .	0.0	0