

Marcella Trombetta

List of Publications by Year in descending order

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105
papers

5,269
citations

61945

43
h-index

88593

70
g-index

108
all docs

108
docs citations

108
times ranked

7925
citing authors

#	ARTICLE	IF	CITATIONS
1	Current trends in the design of scaffolds for computer-aided tissue engineering. <i>Acta Biomaterialia</i> , 2014, 10, 580-594.	4.1	369
2	Microfluidic-enhanced 3D bioprinting of aligned myoblast-laden hydrogels leads to functionally organized myofibers in vitro and in vivo. <i>Biomaterials</i> , 2017, 131, 98-110.	5.7	252
3	FT-IR Studies on Light Olefin Skeletal Isomerization Catalysis. <i>Journal of Catalysis</i> , 1998, 179, 581-596.	3.1	188
4	Pluronic F127 Hydrogel Characterization and Biofabrication in Cellularized Constructs for Tissue Engineering Applications. <i>Procedia CIRP</i> , 2016, 49, 125-132.	1.0	179
5	Characterization and composition of commercial V ₂ O ₅ and WO ₃ /TiO ₂ SCR catalysts. <i>Applied Catalysis B: Environmental</i> , 1996, 10, 299-311.	10.8	161
6	Classification of M1/M2-polarized human macrophages by label-free hyperspectral reflectance confocal microscopy and multivariate analysis. <i>Scientific Reports</i> , 2017, 7, 8965.	1.6	158
7	An FT-IR study of the internal and external surfaces of HZSM5 zeolite. <i>Applied Catalysis A: General</i> , 2000, 192, 125-136.	2.2	133
8	Investigating Nonalcoholic Fatty Liver Disease in a Liver-on-a-Chip Microfluidic Device. <i>PLoS ONE</i> , 2016, 11, e0159729.	1.1	131
9	Combined additive manufacturing approaches in tissue engineering. <i>Acta Biomaterialia</i> , 2015, 24, 1-11.	4.1	115
10	Poly-L-Lactic Acid/Hydroxyapatite Electrospun Nanocomposites Induce Chondrogenic Differentiation of Human MSC. <i>Annals of Biomedical Engineering</i> , 2009, 37, 1376-1389.	1.3	107
11	Electrospinning of PCL/PVP blends for tissue engineering scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 1425-1442.	1.7	107
12	A study of the surface acidity of acid-treated montmorillonite clay catalysts. <i>Journal of Molecular Catalysis A</i> , 2001, 168, 247-256.	4.8	106
13	An investigation of the surface acidity of mesoporous Al-containing MCM-41 and of the external surface of ferrierite through pivalonitrile adsorption. <i>Applied Catalysis A: General</i> , 1999, 182, 225-235.	2.2	97
14	Polyurethane-based scaffolds for myocardial tissue engineering. <i>Interface Focus</i> , 2014, 4, 20130045.	1.5	95
15	A Simple New Route to Covalent Organic/Inorganic Hybrid Proton Exchange Polymeric Membranes. <i>Chemistry of Materials</i> , 2006, 18, 69-75.	3.2	87
16	IR study of alkene allylic activation on magnesium ferrite and alumina catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 4687.	1.7	85
17	Engineering muscle cell alignment through 3D bioprinting. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2582-2588.	2.1	84
18	Naturally derived proteins and glycosaminoglycan scaffolds for tissue engineering applications. <i>Materials Science and Engineering C</i> , 2017, 78, 1277-1299.	3.8	82

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19	FT-IR Studies on Light Olefin Skeletal Isomerization Catalysis. <i>Journal of Catalysis</i> , 1997, 168, 334-348.	3.1	81
20	Fabrication of bioactive glass-ceramic foams mimicking human bone portions for regenerative medicine. <i>Acta Biomaterialia</i> , 2008, 4, 362-369.	4.1	80
21	Characterization of age-related changes of tendon stem cells from adult human tendons. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2014, 22, 2856-2866.	2.3	79
22	Surface acidity modifications induced by thermal treatments and acid leaching on microcrystalline H-BEA zeolite. A FTIR, XRD and MAS-NMR study. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 3529-3537.	1.3	76
23	Old Myths, New Concerns: the Long-Term Effects of Ascending Aorta Replacement with Dacron Grafts. Not All That Glitters Is Gold. <i>Journal of Cardiovascular Translational Research</i> , 2016, 9, 334-342.	1.1	76
24	Characterization of alumina-titania mixed oxide supports. <i>Microporous and Mesoporous Materials</i> , 1998, 23, 265-275.	2.2	75
25	A covalent organic/inorganic hybrid proton exchange polymeric membrane: synthesis and characterization. <i>Polymer</i> , 2005, 46, 1754-1758.	1.8	70
26	Correlation between porous texture and cell seeding efficiency of gas foaming and microfluidic foaming scaffolds. <i>Materials Science and Engineering C</i> , 2016, 62, 668-677.	3.8	70
27	Solid acid catalysts from clays. <i>Applied Catalysis A: General</i> , 2000, 193, 55-69.	2.2	69
28	FTIR study of the interaction of some branched aliphatic molecules with the external and internal sites of H-ZSM5 zeolite. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 3341-3348.	1.3	66
29	Bioactive electrospun scaffold for annulus fibrosus repair and regeneration. <i>European Spine Journal</i> , 2012, 21, 20-26.	1.0	65
30	Graded porous polyurethane foam: A potential scaffold for oro-maxillary bone regeneration. <i>Materials Science and Engineering C</i> , 2015, 51, 329-335.	3.8	64
31	Electrospun scaffolds for bone tissue engineering. <i>Musculoskeletal Surgery</i> , 2011, 95, 69-80.	0.7	62
32	Combining Type I Interferons and 5-Aza-2-Deoxycytidine to Improve Anti-Tumor Response against Melanoma. <i>Journal of Investigative Dermatology</i> , 2017, 137, 159-169.	0.3	60
33	Engineering Muscle Networks in 3D Gelatin Methacryloyl Hydrogels: Influence of Mechanical Stiffness and Geometrical Confinement. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, 22.	2.0	60
34	Biomechanical Characterization at the Cell Scale: Present and Prospects. <i>Frontiers in Physiology</i> , 2018, 9, 1449.	1.3	59
35	A study of the external and internal sites of MFI-type zeolitic materials through the FT-IR investigation of the adsorption of nitriles. <i>Applied Catalysis A: General</i> , 2001, 216, 59-71.	2.2	58
36	Drug releasing systems in cardiovascular tissue engineering. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 422-439.	1.6	58

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37	SPEEK/PPSU-based organic-inorganic membranes: proton conducting electrolytes in anhydrous and wet environments. <i>Journal of Membrane Science</i> , 2006, 279, 186-191.	4.1	56
38	FT-IR Studies on Light Olefin Skeletal Isomerization Catalysis. <i>Journal of Catalysis</i> , 1997, 168, 349-363.	3.1	55
39	Biological response of human mesenchymal stromal cells to titanium grade 4 implants coated with PCL/ZrO ₂ hybrid materials synthesized by sol-gel route: in vitro evaluation. <i>Materials Science and Engineering C</i> , 2014, 45, 395-401.	3.8	55
40	Load-Adaptive Scaffold Architecturing: A Bioinspired Approach to the Design of Porous Additively Manufactured Scaffolds with Optimized Mechanical Properties. <i>Annals of Biomedical Engineering</i> , 2012, 40, 966-975.	1.3	53
41	Ammonia Adsorption and Oxidation on Cu/Mg/Al Mixed Oxide Catalysts Prepared via Hydrothermal-Type Precursors. <i>Langmuir</i> , 1997, 13, 4628-4637.	1.6	51
42	Scaffold-Based Delivery of a Clinically Relevant Anti-Angiogenic Drug Promotes the Formation of <i>in Vivo</i> Stable Cartilage. <i>Tissue Engineering - Part A</i> , 2013, 19, 1960-1971.	1.6	47
43	Simple fabrication technique for multilayered stratified composite scaffolds suitable for interface tissue engineering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 557, 54-58.	2.6	42
44	Biofabrication of Hepatic Constructs by 3D Bioprinting of a Cell-Laden Thermogel: An Effective Tool to Assess Drug-Induced Hepatotoxic Response. <i>Advanced Healthcare Materials</i> , 2020, 9, e2001163.	3.9	41
45	An FT-IR study of the adsorption of aromatic hydrocarbons and of 2,6-lutidine on H-FER and H-ZSM-5 zeolites. <i>Applied Catalysis A: General</i> , 2001, 220, 181-190.	2.2	40
46	Comparative Study of Different Techniques for the Sterilization of Poly-L-lactide Electrospun Microfibers: Effectiveness vs. Material Degradation. <i>International Journal of Artificial Organs</i> , 2010, 33, 76-85.	0.7	40
47	Surface functionalization of polyurethane scaffolds mimicking the myocardial microenvironment to support cardiac primitive cells. <i>PLoS ONE</i> , 2018, 13, e0199896.	1.1	38
48	Electrospun Nanomaterials Implementing Antibacterial Inorganic Nanophases. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1643.	1.3	37
49	An FT-IR study of the reactivity of hydrocarbons on the acid sites of HZSM5 zeolite. <i>Applied Catalysis A: General</i> , 2000, 198, 81-93.	2.2	35
50	Combination of biochemical and mechanical cues for tendon tissue engineering. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 2711-2719.	1.6	35
51	SPPSU-based hybrid proton conducting polymeric electrolytes for intermediate temperature PEMFCs. <i>Journal of Power Sources</i> , 2007, 167, 79-83.	4.0	34
52	Electrospun Hydroxyapatite-Functionalized PLLA Scaffold: Potential Applications in Sternal Bone Healing. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1882-1890.	1.3	33
53	Implantation of a Poly-L-Lactide GCSF-Functionalized Scaffold in a Model of Chronic Myocardial Infarction. <i>Journal of Cardiovascular Translational Research</i> , 2017, 10, 47-65.	1.1	33
54	Heparin-releasing scaffold for stem cells: a differentiating device for vascular aims. <i>Regenerative Medicine</i> , 2010, 5, 645-657.	0.8	32

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55	Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering. <i>Advanced Functional Materials</i> , 2018, 28, 1800874.	7.8	32
56	The role of extracellular matrix in age-related conduction disorders: a forgotten player?. <i>Journal of Geriatric Cardiology</i> , 2015, 12, 76-82.	0.2	32
57	Preliminary in Vivo Evaluation of a Hybrid Armored Vascular Graft Combining Electrospinning and Additive Manufacturing Techniques. <i>Drug Target Insights</i> , 2016, 10s1, DTI.S35202.	0.9	31
58	A G-CSF functionalized scaffold for stem cells seeding: a differentiating device for cardiac purposes. <i>Journal of Cellular and Molecular Medicine</i> , 2011, 15, 1096-1108.	1.6	29
59	Cells and extracellular matrix interplay in cardiac valve disease: because age matters. <i>Basic Research in Cardiology</i> , 2016, 111, 16.	2.5	29
60	CytoMatrix for a reliable and simple characterization of lung cancer stem cells from malignant pleural effusions. <i>Journal of Cellular Physiology</i> , 2020, 235, 1877-1887.	2.0	29
61	Characterization of Silica-Containing Aluminum Hydroxide and Oxide Aerogels. <i>Journal of Colloid and Interface Science</i> , 1997, 190, 416-426.	5.0	26
62	MESNA for chemically assisted tissue dissection. <i>Expert Opinion on Investigational Drugs</i> , 2010, 19, 699-707.	1.9	26
63	Tissue engineering and microRNAs: future perspectives in regenerative medicine. <i>Expert Opinion on Biological Therapy</i> , 2015, 15, 1601-1622.	1.4	25
64	Preoperative Assessment of TERT Promoter Mutation on Thyroid Core Needle Biopsies Supports Diagnosis of Malignancy and Addresses Surgical Strategy. <i>Hormone and Metabolic Research</i> , 2016, 48, 157-162.	0.7	25
65	The effect of post-mastectomy radiation therapy on breast implants: Unveiling biomaterial alterations with potential implications on capsular contracture. <i>Materials Science and Engineering C</i> , 2015, 57, 338-343.	3.8	23
66	As to the reasons of the high activity of a commercial pentasil-type zeolite in the vapor-phase Fries rearrangement. <i>Applied Catalysis A: General</i> , 2004, 257, 85-95.	2.2	22
67	ATR-FTIR and NMR spectroscopic studies on the structure of polymeric gel electrolytes for biomedical applications. <i>Polymer</i> , 2005, 46, 4670-4675.	1.8	22
68	Graphene-laden hydrogels: A strategy for thermally triggered drug delivery. <i>Materials Science and Engineering C</i> , 2021, 118, 111353.	3.8	22
69	Conversion and hydroconversion of hydrocarbons on zeolite-based catalysts: an FT-IR study. <i>Catalysis Today</i> , 2001, 65, 285-292.	2.2	21
70	Electrospinning of hydroxyapatite-chitosan nanofibers for tissue engineering applications. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014, 9, 407-414.	0.8	20
71	A primer of statistical methods for correlating parameters and properties of electrospun poly(ϵ -lactide) scaffolds for tissue engineering-PART 1: Design of experiments. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 91-102.	2.1	20
72	Proton Conducting Hybrid Membranes Based on Aromatic Polymers Blends for Direct Methanol Fuel Cell Applications. <i>Fuel Cells</i> , 2009, 9, 387-393.	1.5	17

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73	A primer of statistical methods for correlating parameters and properties of electrospun poly(L-lactide) scaffolds for tissue engineering-PART 2: Regression. Journal of Biomedical Materials Research - Part A, 2015, 103, 103-114.	2.1	16
74	Functionalization of poly(μ -caprolactone) surface with lactose-modified chitosan via alkaline hydrolysis: ToF-SIMS characterization. Biointerphases, 2016, 11, 02A323.	0.6	14
75	The long-term follow-up of large-diameter Dacron [®] vascular grafts in surgical practice: a review. Journal of Cardiovascular Surgery, 2019, 60, 501-513.	0.3	14
76	Hybrid organic/inorganic materials for photonic applications via assembling of nanostructured molecular units. Journal of Sol-Gel Science and Technology, 2008, 48, 217-223.	1.1	13
77	A G-CSF functionalized PLLA scaffold for wound repair: An in vitro preliminary study. , 2010, 2010, 843-6.		12
78	Electrospinning and microfluidics. , 2018, , 139-155.		12
79	Quercetin and hydroxytyrosol as modulators of hepatic steatosis: A NAFLD ^Δ chip study. Biotechnology and Bioengineering, 2021, 118, 142-152.	1.7	12
80	Nano-encapsulation of hydroxytyrosol into formulated nanogels improves therapeutic effects against hepatic steatosis: An in vitro study. Materials Science and Engineering C, 2021, 124, 112080.	3.8	12
81	Preparation and characterisation of histidine ^Δ and iron ^Δ histidine ^Δ zirconium phosphate intercalation compounds. Catalytic behaviour of the iron derivatives in oxidation reactions with H ₂ O ₂ . Journal of Materials Chemistry, 2003, 13, 834-840.	6.7	11
82	Tuning Structural Changes in Glucose Oxidase for Enzyme Fuel Cell Applications. ACS Applied Materials & Interfaces, 2015, 7, 28311-28318.	4.0	11
83	Comparative study of different techniques for the sterilization of poly-L-lactide electrospun microfibers: effectiveness vs. material degradation. International Journal of Artificial Organs, 2010, 33, 76-85.	0.7	11
84	EGFR/ErbB Inhibition Promotes OPC Maturation up to Axon Engagement by Co-Regulating PIP2 and MBP. Cells, 2019, 8, 844.	1.8	10
85	Proton ^Δ conducting electrolytes based on silylated and sulfonated polyetheretherketone: Synthesis and characterization. Journal of Polymer Science Part A, 2010, 48, 2178-2186.	2.5	9
86	ATR-FTIR spectroscopic study of the effect of ceramic addition in novel ionoconductor gels for biomedical applications in space. Journal of the European Ceramic Society, 2004, 24, 1153-1156.	2.8	8
87	Dermal Filler Complications from Unknown Biomaterials. Plastic and Reconstructive Surgery, 2013, 131, 597e-603e.	0.7	8
88	Computationally Informed Design of a Multi-Axial Actuated Microfluidic Chip Device. Scientific Reports, 2017, 7, 5489.	1.6	8
89	Enhanced Medical and Community Face Masks with Antimicrobial Properties: A Systematic Review. Journal of Clinical Medicine, 2021, 10, 4066.	1.0	8
90	Hybrid Siloxane-Based Nano Building Blocks for Optical Applications: Optimization of the Synthetic Procedures by Spectroscopic Analysis. Journal of Sol-Gel Science and Technology, 2005, 35, 151-157.	1.1	7

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91	Siloxane-Based Nanobuilding Blocks by Reaction Between Silanediol and Trifunctional Silicon Alkoxides. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 32, 57-61.	1.1	6
92	Textured and Smooth Breast Implants: Is There a Difference in the Chemical Structure of Silicone?. <i>Annals of Plastic Surgery</i> , 2009, 63, 373-377.	0.5	6
93	A Soft Zwitterionic Hydrogel as Potential Coating on a Polyimide Surface to Reduce Foreign Body Reaction to Intra-neural Electrodes. <i>Molecules</i> , 2022, 27, 3126.	1.7	6
94	Development of a New Bioartificial Liver Using a Porcine Autologous Biomatrix as Hepatocyte Support. <i>ASAIO Journal</i> , 2002, 48, 592-597.	0.9	5
95	In Situ Electrostimulation Drives a Regenerative Shift in the Zone of Infarcted Myocardium. <i>Cell Transplantation</i> , 2013, 22, 493-503.	1.2	5
96	Energy Harvesting: Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering (<i>Adv. Funct. Mater.</i> 20/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870133.	7.8	4
97	Protecting the Food Supply Chain from Terrorist Attack. <i>International Federation for Information Processing</i> , 2010, , 157-167.	0.4	3
98	A biomimetic three-layered compartmented scaffold for vascular tissue engineering. , 2010, 2010, 839-42.		2
99	Computer-aided tissue engineering for bone regeneration. , 2012, , .		2
100	Morphological and Molecular Assessment in Thyroid Cytology Using Cell-Capturing Scaffolds. <i>Hormone and Metabolic Research</i> , 2020, 52, 803-808.	0.7	2
101	Optimization Approaches for the Design of Additively Manufactured Scaffolds. <i>Computational Methods in Applied Sciences (Springer)</i> , 2014, , 113-128.	0.1	2
102	Functionalized ORMOSIL-Based Hybrid Membranes for Polymer Electrolyte Membrane Fuel Cells. <i>Materials Research Society Symposia Proceedings</i> , 2005, 885, 1.	0.1	0
103	Crosslinked Organic/Inorganic Hybrid Proton Exchange Polymeric Membranes. <i>Materials Research Society Symposia Proceedings</i> , 2005, 885, 1.	0.1	0
104	Muscle Reconstruction and Regeneration Using Biodegradable Scaffolds. , 2010, , .		0
105	Additive manufacturing of biomaterials. <i>Advances in Chemical Engineering</i> , 2021, , 233-260.	0.5	0