

Andrea Barbetta

List of Publications by Year in descending order

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54
papers

4,246
citations

117453

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168136

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docs citations

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times ranked

5203
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidic Bioprinting of Heterogeneous 3D Tissue Constructs Using Low-Viscosity Bioink. <i>Advanced Materials</i> , 2016, 28, 677-684.	11.1	677
2	Morphology and Surface Area of Emulsion-Derived (PolyHIPE) Solid Foams Prepared with Oil-Phase Soluble Porogenic Solvents: A Span 80 as Surfactant. <i>Macromolecules</i> , 2004, 37, 3188-3201.	2.2	299
3	Microfluidic-enhanced 3D bioprinting of aligned myoblast-laden hydrogels leads to functionally organized myofibers <i>in vitro</i> and <i>in vivo</i> . <i>Biomaterials</i> , 2017, 131, 98-110.	5.7	252
4	3D bioprinting of BM-MSCs-loaded ECM biomimetic hydrogels for <i>in vitro</i> neocartilage formation. <i>Biofabrication</i> , 2016, 8, 035002.	3.7	211
5	Morphology and Surface Area of Emulsion-Derived (PolyHIPE) Solid Foams Prepared with Oil-Phase Soluble Porogenic Solvents: A Three-Component Surfactant System. <i>Macromolecules</i> , 2004, 37, 3202-3213.	2.2	158
6	Tailoring the Porosity and Morphology of Gelatin-Methacrylate PolyHIPE Scaffolds for Tissue Engineering Applications. <i>Langmuir</i> , 2005, 21, 12333-12341.	1.6	143
7	High internal phase emulsions (HIPEs) containing divinylbenzene and 4-vinylbenzyl chloride and the morphology of the resulting PolyHIPE materials. <i>Chemical Communications</i> , 2000, , 221-222.	2.2	133
8	Scaffolds Based on Biopolymeric Foams. <i>Advanced Functional Materials</i> , 2005, 15, 118-124.	7.8	122
9	The influence of porogen type on the porosity, surface area and morphology of poly(divinylbenzene) PolyHIPE foams. <i>Journal of Materials Chemistry</i> , 2000, 10, 2466-2471.	6.7	121
10	3D bioprinting of hydrogel constructs with cell and material gradients for the regeneration of full-thickness chondral defect using a microfluidic printing head. <i>Biofabrication</i> , 2019, 11, 044101.	3.7	120
11	Enzymatic Cross-Linking versus Radical Polymerization in the Preparation of Gelatin PolyHIPEs and Their Performance as Scaffolds in the Culture of Hepatocytes. <i>Biomacromolecules</i> , 2006, 7, 3059-3068.	2.6	102
12	Porous gelatin hydrogels by gas-in-liquid foam templating. <i>Soft Matter</i> , 2010, 6, 1785.	1.2	99
13	Porous Alginate Hydrogels: Synthetic Methods for Tailoring the Porous Texture. <i>Biomacromolecules</i> , 2009, 10, 2328-2337.	2.6	94
14	Morphological Comparison of PVA Scaffolds Obtained by Gas Foaming and Microfluidic Foaming Techniques. <i>Langmuir</i> , 2013, 29, 82-91.	1.6	92
15	3D bioprinted hydrogel model incorporating β -tricalcium phosphate for calcified cartilage tissue engineering. <i>Biofabrication</i> , 2019, 11, 035016.	3.7	82
16	Highly ordered and tunable polyHIPEs by using microfluidics. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2290.	2.9	80
17	Rheological properties of guar and its methyl, hydroxypropyl and hydroxypropyl-methyl derivatives in semidilute and concentrated aqueous solutions. <i>Polymer</i> , 2010, 51, 1972-1982.	1.8	75
18	Co-axial wet-spinning in 3D bioprinting: state of the art and future perspective of microfluidic integration. <i>Biofabrication</i> , 2019, 11, 012001.	3.7	75

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19	Polyhydroxyalkanoates production with mixed microbial cultures: from culture selection to polymer recovery in a high-rate continuous process. <i>New Biotechnology</i> , 2014, 31, 289-296.	2.4	74
20	3D Printing of Functionally Graded Porous Materials Using On-Demand Reconfigurable Microfluidics. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7620-7625.	7.2	73
21	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
22	Rapid prototyping of chitosan-coated alginate scaffolds through the use of a 3D fiber deposition technique. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6779-6791.	2.9	69
23	4D printing in biomedical applications: emerging trends and technologies. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7608-7632.	2.9	65
24	Gas-in-Liquid Foam Templating as a Method for the Production of Highly Porous Scaffolds. <i>Biomacromolecules</i> , 2009, 10, 3188-3192.	2.6	63
25	Synthesis and characterization of porous glycidylmethacrylate-divinylbenzene monoliths using the high internal phase emulsion approach. <i>Reactive and Functional Polymers</i> , 2009, 69, 724-736.	2.0	62
26	Emulsion Templated Scaffolds that Include Gelatin and Glycosaminoglycans. <i>Biomacromolecules</i> , 2008, 9, 2844-2856.	2.6	61
27	Porous Biomaterials Obtained Using Supercritical CO ₂ -Water Emulsions. <i>Langmuir</i> , 2007, 23, 8243-8251.	1.6	60
28	Polysaccharide based scaffolds obtained by freezing the external phase of gas-in-liquid foams. <i>Soft Matter</i> , 2010, 6, 5213.	1.2	60
29	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
30	Human cardiosphere-seeded gelatin and collagen scaffolds as cardiogenic engineered bioconstructs. <i>Biomaterials</i> , 2011, 32, 9271-9281.	5.7	59
31	Microfluidic Foaming: A Powerful Tool for Tailoring the Morphological and Permeability Properties of Sponge-like Biopolymeric Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23660-23671.	4.0	55
32	Skin tears and risk factors assessment: a systematic review on evidence-based medicine. <i>International Wound Journal</i> , 2018, 15, 38-42.	1.3	55
33	In Situ Precipitation of Amorphous Calcium Phosphate and Ciprofloxacin Crystals during the Formation of Chitosan Hydrogels and Its Application for Drug Delivery Purposes. <i>Langmuir</i> , 2012, 28, 15937-15946.	1.6	37
34	Designing unconventional Fmoc-peptide-based biomaterials: structure and related properties. <i>Soft Matter</i> , 2014, 10, 1944.	1.2	37
35	Influence of dialkyne structure on the properties of new click-gels based on hyaluronic acid. <i>International Journal of Pharmaceutics</i> , 2009, 378, 86-92.	2.6	34
36	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

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37	Synthesis and characterization of a novel poly(vinyl alcohol) 3D platform for the evaluation of hepatocytes' response to drug administration. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3083.	2.9	31
38	Cardiospheres and tissue engineering for myocardial regeneration: potential for clinical application. <i>Journal of Cellular and Molecular Medicine</i> , 2010, 14, no-no.	1.6	30
39	Porous Polymers by Emulsion Templating. <i>Macromolecular Symposia</i> , 2005, 226, 203-212.	0.4	28
40	Microfluidic Bioprinting of Heterogeneous 3D Tissue Constructs. <i>Methods in Molecular Biology</i> , 2017, 1612, 369-380.	0.4	28
41	Role of X-ray microtomography in tissue engineering. <i>Annali Dell'Istituto Superiore Di Sanita</i> , 2012, 48, 10-8.	0.2	28
42	Ionic gel formation of a (pseudo)alginate characterised by an alternating MG sequence produced by epimerising mannuronan with AlgE4. <i>Carbohydrate Polymers</i> , 2007, 67, 465-473.	5.1	24
43	Gas foaming technologies for 3D scaffold engineering. , 2018, , 127-149.		23
44	The role of adult tissueâ€derived stem cells in chronic leg ulcers: a systematic review focused on tissue regeneration medicine. <i>International Wound Journal</i> , 2016, 13, 1289-1298.	1.3	16
45	3D printing of biphasic inks: beyond single-scale architectural control. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12489-12508.	2.7	14
46	The Role of Biofilm in Central Venous Catheter Related Bloodstream Infections: Evidence-based Nursing and Review of the Literature. <i>Reviews on Recent Clinical Trials</i> , 2020, 15, 22-27.	0.4	14
47	Engineering Human-Scale Artificial Bone Grafts for Treating Critical-Size Bone Defects. <i>ACS Applied Bio Materials</i> , 2019, 2, 5077-5092.	2.3	12
48	Tackling Current Biomedical Challenges With Frontier Biofabrication and Organ-On-A-Chip Technologies. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 732130.	2.0	11
49	Spectroscopic investigation on poly[bis(carboxylatophenoxy)]-phosphazene polyelectrolyte interactions with cationic dyes in dilute aqueous solution. <i>Macromolecular Chemistry and Physics</i> , 1999, 200, 1157-1162.	1.1	6
50	3Dâ€Printing of Functionally Graded Porous Materials Using Onâ€Demand Reconfigurable Microfluidics. <i>Angewandte Chemie</i> , 2019, 131, 7702-7707.	1.6	6
51	C(6)-Oxidation and C(5)-Epimerization of Locust Bean Galactomannan Studied by High Field NMR and Circular Dichroism. <i>Biomacromolecules</i> , 2006, 7, 54-63.	2.6	5
52	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
53	Photocurable Biopolymers for Coaxial Bioprinting. <i>Methods in Molecular Biology</i> , 2021, 2147, 45-54.	0.4	3
54	Transient Anomalous Diffusion MRI Measurement Discriminates Porous Polymeric Matrices Characterized by Different Sub-Microstructures and Fractal Dimension. <i>Gels</i> , 2022, 8, 95.	2.1	2