Andrea Barbetta

List of Publications by Year
in descending order

54 papers	4,246 citations	117453 34 h-index	168136 53 g-index
54 all docs	54 docs citations	54 times ranked	5203 citing authors

#	Article	IF	Citations
1	Transient Anomalous Diffusion MRI Measurement Discriminates Porous Polymeric Matrices Characterized by Different Sub-Microstructures and Fractal Dimension. Gels, 2022, 8, 95.	2.1	2
2	3D printing of biphasic inks: beyond single-scale architectural control. Journal of Materials Chemistry C, 2021, 9, 12489-12508.	2.7	14
3	4D printing in biomedical applications: emerging trends and technologies. Journal of Materials Chemistry B, 2021, 9, 7608-7632.	2.9	65
4	Tackling Current Biomedical Challenges With Frontier Biofabrication and Organ-On-A-Chip Technologies. Frontiers in Bioengineering and Biotechnology, 2021, 9, 732130.	2.0	11
5	Photocurable Biopolymers for Coaxial Bioprinting. Methods in Molecular Biology, 2021, 2147, 45-54.	0.4	3
6	The Role of Biofilm in Central Venous Catheter Related Bloodstream Infections: Evidence-based Nursing and Review of the Literature. Reviews on Recent Clinical Trials, 2020, 15, 22-27.	0.4	14
7	Engineering Human-Scale Artificial Bone Grafts for Treating Critical-Size Bone Defects. ACS Applied Bio Materials, 2019, 2, 5077-5092.	2.3	12
8	3D bioprinting of hydrogel constructs with cell and material gradients for the regeneration of full-thickness chondral defect using a microfluidic printing head. Biofabrication, 2019, 11, 044101.	3.7	120
9	3Dâ€Printing of Functionally Graded Porous Materials Using Onâ€Demand Reconfigurable Microfluidics. Angewandte Chemie - International Edition, 2019, 58, 7620-7625.	7.2	73
10	3Dâ€Printing of Functionally Graded Porous Materials Using Onâ€Demand Reconfigurable Microfluidics. Angewandte Chemie, 2019, 131, 7702-7707.	1.6	6
11	3D bioprinted hydrogel model incorporating <i>Î²</i> -tricalcium phosphate for calcified cartilage tissue engineering. Biofabrication, 2019, 11, 035016.	3.7	82
12	Co-axial wet-spinning in 3D bioprinting: state of the art and future perspective of microfluidic integration. Biofabrication, 2019, 11, 012001.	3.7	75
13	Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering. Advanced Functional Materials, 2018, 28, 1800874.	7.8	32
14	Skin tears and risk factors assessment: a systematic review on evidenceâ€based medicine. International Wound Journal, 2018, 15, 38-42.	1.3	55
15	Energy Harvesting: Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering (Adv. Funct. Mater. 20/2018). Advanced Functional Materials, 2018, 28, 1870133.	7.8	4
16	Gas foaming technologies for 3D scaffold engineering. , 2018, , 127-149.		23
17	Microfluidic Bioprinting of Heterogeneous 3D Tissue Constructs. Methods in Molecular Biology, 2017, 1612, 369-380.	0.4	28
18	Microfluidic-enhanced 3D bioprinting of aligned myoblast-laden hydrogels leads to functionally organized myofibers inÂvitro and inÂvivo. Biomaterials, 2017, 131, 98-110.	5.7	252

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19	Engineering Muscle Networks in 3D Gelatin Methacryloyl Hydrogels: Influence of Mechanical Stiffness and Geometrical Confinement. Frontiers in Bioengineering and Biotechnology, 2017, 5, 22.	2.0	60
20	Microfluidic Bioprinting of Heterogeneous 3D Tissue Constructs Using Lowâ€Viscosity Bioink. Advanced Materials, 2016, 28, 677-684.	11.1	677
21	The role of adult tissueâ€derived stem cells in chronic leg ulcers: a systematic review focused on tissue regeneration medicine. International Wound Journal, 2016, 13, 1289-1298.	1.3	16
22	3D bioprinting of BM-MSCs-loaded ECM biomimetic hydrogels for <i>in vitro</i> neocartilage formation. Biofabrication, 2016, 8, 035002.	3.7	211
23	Correlation between porous texture and cell seeding efficiency of gas foaming and microfluidic foaming scaffolds. Materials Science and Engineering C, 2016, 62, 668-677.	3.8	70
24	Microfluidic Foaming: A Powerful Tool for Tailoring the Morphological and Permeability Properties of Sponge-like Biopolymeric Scaffolds. ACS Applied Materials & Interfaces, 2015, 7, 23660-23671.	4.0	55
25	Designing unconventional Fmoc-peptide-based biomaterials: structure and related properties. Soft Matter, 2014, 10, 1944.	1.2	37
26	Polyhydroxyalkanoates production with mixed microbial cultures: from culture selection to polymer recovery in a high-rate continuous process. New Biotechnology, 2014, 31, 289-296.	2.4	74
27	Highly ordered and tunable polyHIPEs by using microfluidics. Journal of Materials Chemistry B, 2014, 2, 2290.	2.9	80
28	Rapid prototyping of chitosan-coated alginate scaffolds through the use of a 3D fiber deposition technique. Journal of Materials Chemistry B, 2014, 2, 6779-6791.	2.9	69
29	Synthesis and characterization of a novel poly(vinyl alcohol) 3D platform for the evaluation of hepatocytes' response to drug administration. Journal of Materials Chemistry B, 2013, 1, 3083.	2.9	31
30	Morphological Comparison of PVA Scaffolds Obtained by Gas Foaming and Microfluidic Foaming Techniques. Langmuir, 2013, 29, 82-91.	1.6	92
31	In Situ Precipitation of Amorphous Calcium Phosphate and Ciprofloxacin Crystals during the Formation of Chitosan Hydrogels and Its Application for Drug Delivery Purposes. Langmuir, 2012, 28, 15937-15946.	1.6	37
32	Role of X-ray microtomography in tissue engineering. Annali Dell'Istituto Superiore Di Sanita, 2012, 48, 10-8.	0.2	28
33	Human cardiosphere-seeded gelatin and collagen scaffolds as cardiogenic engineered bioconstructs. Biomaterials, 2011, 32, 9271-9281.	5.7	59
34	Cardiospheres and tissue engineering for myocardial regeneration: potential for clinical application. Journal of Cellular and Molecular Medicine, 2010, 14, no-no.	1.6	30
35	Rheological properties of guar and its methyl, hydroxypropyl and hydroxypropyl-methyl derivatives in semidilute and concentrated aqueous solutions. Polymer, 2010, 51, 1972-1982.	1.8	75
36	Porous gelatin hydrogels by gas-in-liquid foam templating. Soft Matter, 2010, 6, 1785.	1.2	99

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37	Polysaccharide based scaffolds obtained by freezing the external phase of gas-in-liquid foams. Soft Matter, 2010, 6, 5213.	1.2	60
38	Influence of dialkyne structure on the properties of new click-gels based on hyaluronic acid. International Journal of Pharmaceutics, 2009, 378, 86-92.	2.6	34
39	Synthesis and characterization of porous glycidylmethacrylateâ€"divinylbenzene monoliths using the high internal phase emulsion approach. Reactive and Functional Polymers, 2009, 69, 724-736.	2.0	62
40	Gas-in-Liquid Foam Templating as a Method for the Production of Highly Porous Scaffolds. Biomacromolecules, 2009, 10, 3188-3192.	2.6	63
41	Porous Alginate Hydrogels: Synthetic Methods for Tailoring the Porous Texture. Biomacromolecules, 2009, 10, 2328-2337.	2.6	94
42	Emulsion Templated Scaffolds that Include Gelatin and Glycosaminoglycans. Biomacromolecules, 2008, 9, 2844-2856.	2.6	61
43	Porous Biomaterials Obtained Using Supercritical CO2â^'Water Emulsions. Langmuir, 2007, 23, 8243-8251.	1.6	60
44	Ionic gel formation of a (pseudo)alginate characterised by an alternating MG sequence produced by epimerising mannuronan with AlgE4. Carbohydrate Polymers, 2007, 67, 465-473.	5.1	24
45	Enzymatic Cross-Linking versus Radical Polymerization in the Preparation of Gelatin PolyHIPEs and Their Performance as Scaffolds in the Culture of Hepatocytes. Biomacromolecules, 2006, 7, 3059-3068.	2.6	102
46	C(6)-Oxidation and C(5)-Epimerization of Locust Bean Galactomannan Studied by High Field NMR and Circular Dichroism. Biomacromolecules, 2006, 7, 54-63.	2.6	5
47	Porous Polymers by Emulsion Templating. Macromolecular Symposia, 2005, 226, 203-212.	0.4	28
48	Scaffolds Based on Biopolymeric Foams. Advanced Functional Materials, 2005, 15, 118-124.	7.8	122
49	Tailoring the Porosity and Morphology of Gelatin-Methacrylate PolyHIPE Scaffolds for Tissue Engineering Applications. Langmuir, 2005, 21, 12333-12341.	1.6	143
50	Morphology and Surface Area of Emulsion-Derived (PolyHIPE) Solid Foams Prepared with Oil-Phase Soluble Porogenic Solvents:Â Span 80 as Surfactant. Macromolecules, 2004, 37, 3188-3201.	2.2	299
51	Morphology and Surface Area of Emulsion-Derived (PolyHIPE) Solid Foams Prepared with Oil-Phase Soluble Porogenic Solvents:Â Three-Component Surfactant System. Macromolecules, 2004, 37, 3202-3213.	2.2	158
52	High internal phase emulsions (HIPEs) containing divinylbenzene and 4-vinylbenzyl chloride and the morphology of the resulting PolyHIPE materials. Chemical Communications, 2000, , 221-222.	2.2	133
53	The influence of porogen type on the porosity, surface area and morphology of poly(divinylbenzene) PolyHIPE foams. Journal of Materials Chemistry, 2000, 10, 2466-2471.	6.7	121
54	Spectroscopic investigation on poly[bis(carboxylatophenoxy)]-phosphazene polyelectrolyte interactions with cationic dyes in dilute aqueous solution. Macromolecular Chemistry and Physics, 1999, 200, 1157-1162.	1.1	6