Stefano Cardea

List of Publications by Year
in descending order

70	2,460	147726 31	206029 48
papers	citations	h-index	g-index

76	76	76	2365
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aerogels with a Microporous Crystalline Host Phase. Advanced Materials, 2005, 17, 1515-1518.	11.1	182
2	Supercritical fluids processing of polymers for pharmaceutical and medical applications. Journal of Supercritical Fluids, 2009, 47, 484-492.	1.6	176
3	Production of controlled polymeric foams by supercritical CO2. Journal of Supercritical Fluids, 2007, 40, 144-152.	1.6	147
4	Formation of cellulose acetate membranes using a supercritical fluid assisted process. Journal of Membrane Science, 2004, 240, 187-195.	4.1	94
5	A new supercritical fluid-based process to produce scaffolds for tissue replacement. Journal of Supercritical Fluids, 2008, 45, 365-373.	1.6	88
6	Complete glutaraldehyde elimination during chitosan hydrogel drying by SC-CO2 processing. Journal of Supercritical Fluids, 2015, 103, 70-76.	1.6	76
7	Supercritical fluids in 3-D tissue engineering. Journal of Supercritical Fluids, 2012, 69, 97-107.	1.6	71
8	Generation of chitosan nanoporous structures for tissue engineering applications using a supercritical fluid assisted process. Journal of Supercritical Fluids, 2010, 54, 290-295.	1.6	65
9	Interpenetration of Natural Polymer Aerogels by Supercritical Drying. Polymers, 2016, 8, 106.	2.0	58
10	Supercritical Gel Drying: A Powerful Tool for Tailoring Symmetric Porous PVDFâ”HFP Membranes. ACS Applied Materials & Interfaces, 2009, 1, 171-180.	4.0	54
11	Production of loaded PMMA structures using the supercritical CO2 phase inversion process. Journal of Membrane Science, 2006, 273, 97-105.	4.1	53
12	Regeneration techniques for bone-to-tendon and muscle-to-tendon interfaces reconstruction. British Medical Bulletin, 2016, 117, 25-37.	2.7	52
13	Formation of polysulfone membranes by supercritical CO2. Journal of Supercritical Fluids, 2005, 35, 140-146.	1.6	51
14	PVDFâ”HFP Membrane Formation by Supercritical CO2Processing:Â Elucidation of Formation Mechanisms. Industrial & Engineering Chemistry Research, 2006, 45, 8939-8945.	1.8	51
15	Nanostructured PLLAâ”Hydroxyapatite Scaffolds Produced by a Supercritical Assisted Technique. Industrial & Engineering Chemistry Research, 2009, 48, 5310-5316.	1.8	51
16	Flexible supercritical CO2-assisted process for poly(methyl methacrylate) structure formation. Polymer Engineering and Science, 2006, 46, 188-197.	1.5	47
17	Tubular perfusion system culture of human mesenchymal stem cells on polyâ€<scp>Lâ€</scp>lactic acid scaffolds produced using a supercritical carbon dioxideâ€assisted process. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2563-2572.	2.1	42
18	Chitosan scaffolds formation by a supercritical freeze extraction process. Journal of Supercritical Fluids, 2014, 90, 27-34.	1.6	42

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19	A new tool to produce alginate-based aerogels for medical applications, by supercritical gel drying. Journal of Supercritical Fluids, 2019, 146, 152-158.	1.6	42
20	Porous Aerogels and Adsorption of Pollutants from Water and Air: A Review. Molecules, 2021, 26, 4440.	1.7	41
21	Monolithic nanoporousâ€“crystalline aerogels based on PPO. RSC Advances, 2012, 2, 12011.	1.7	40
22	Supercritical Assisted Electrospray: An Improved Micronization Process. Polymers, 2019, 11, 244.	2.0	40
23	FEM modeling of the reinforcement mechanism of Hydroxyapatite in PLLA scaffolds produced by supercritical drying, for Tissue Engineering applications. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 51, 225-236.	1.5	38
24	Formation of Cellulose Acetateâ€“Graphene Oxide Nanocomposites by Supercritical CO2 Assisted Phase Inversion. Industrial & Engineering Chemistry Research, 2015, 54, 8147-8156.	1.8	38
25	Production, characterization and testing of antibacterial PVA membranes loaded with HAâ€Ag₃PO₄ nanoparticles, produced by SCâ€CO₂ phase inversion. Journal of Chemical Technology and Biotechnology, 2019, 94, 98-108.	1.6	33
26	Production of biodegradable superabsorbent aerogels using a supercritical CO2 assisted drying. Journal of Supercritical Fluids, 2020, 156, 104681.	1.6	33
27	Supercritical assisted enzymatic membranes preparation, for active packaging applications. Journal of Membrane Science, 2014, 453, 409-418.	4.1	32
28	Biodegradable membranes loaded with curcumin to be used as engineered independent devices in active packaging. Journal of the Taiwan Institute of Chemical Engineers, 2017, 71, 518-526.	2.7	32
29	Supercritical Phase Inversion To Form Drug-Loaded Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (fluoride-co Research, 2010, 49, 2783-2789.	1.8	31
30	SC-CO2-assisted process for a high energy density aerogel supercapacitor: the effect of GO loading. Nanotechnology, 2017, 28, 204001.	1.3	31
31	A supercritical CO2 assisted electrohydrodynamic process used to produce microparticles and microfibers of a model polymer. Journal of CO2 Utilization, 2019, 33, 532-540.	3.3	31
32	Comparative study of PVDF-HFP-curcumin porous structures produced by supercritical assisted processes. Journal of Supercritical Fluids, 2018, 133, 270-277.	1.6	30
33	Production of antimicrobial membranes loaded with potassium sorbate using a supercritical phase separation process. Innovative Food Science and Emerging Technologies, 2016, 34, 77-85.	2.7	28
34	3D PLLA/Ibuprofen composite scaffolds obtained by a supercritical fluids assisted process. Journal of Materials Science: Materials in Medicine, 2014, 25, 989-998.	1.7	27
35	Generation of PEEK-WC membranes by supercritical fluids. Desalination, 2006, 200, 58-60.	4.0	26
36	3-D PLLA scaffolds formation by a supercritical freeze extraction assisted process. Journal of Materials Science: Materials in Medicine, 2014, 25, 355-362.	1.7	26

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37	Supercritical CO 2 processing to improve the electrochemical properties of graphene oxide. Journal of Supercritical Fluids, 2016, 118, 119-127.	1.6	26
38	Role of rheological properties on physical chitosan aerogels obtained by supercritical drying. Carbohydrate Polymers, 2020, 233, 115850.	5.1	26
39	Biodegradable synthetic scaffolds for tendon regeneration. Muscles, Ligaments and Tendons Journal, 2012, 2, 181-6.	0.1	26
40	Formation of poly-vinyl-alcohol structures by supercritical CO2. Journal of Applied Polymer Science, 2007, 104, 3151-3160.	1.3	25
41	Membranes formation of a hydrosoluble biopolymer (PVA) using a supercritical CO2-expanded liquid. Journal of Supercritical Fluids, 2008, 45, 356-364.	1.6	25
42	Production of liposomes loaded alginate aerogels using two supercritical CO2 assisted techniques. Journal of CO2 Utilization, 2020, 39, 101161.	3.3	24
43	Supercritical carbon dioxide techniques for processing microbial exopolysaccharides used in biomedical applications. Materials Science and Engineering C, 2020, 112, 110940.	3.8	24
44	Nanostructured chitosanâ€“gelatin hybrid aerogels produced by supercritical gel drying. Polymer Engineering and Science, 2018, 58, 1494-1499.	1.5	23
45	Microbial Exopolysaccharides as Drug Carriers. Polymers, 2020, 12, 2142.	2.0	21
46	Supercritical fluid assisted process for the generation of cellulose acetate loaded structures, potentially useful for tissue engineering applications. Materials Science and Engineering C, 2016, 59, 480-487.	3.8	20
47	Supercritical assisted electrospray/spinning to produce PVP+quercetin microparticles and microfibers. Journal of the Taiwan Institute of Chemical Engineers, 2020, 117, 278-286.	2.7	18
48	Production of Porous Agarose-Based Structures: Freeze-Drying vs. Supercritical CO2 Drying. Gels, 2021, 7, 198.	2.1	17
49	Nanostructured PVDF-HFP membranes loaded with catalyst obtained by supercritical CO2 assisted techniques. Chemical Engineering and Processing: Process Intensification, 2011, 50, 630-636.	1.8	16
50	Supercritical CO2 assisted formation of composite membranes containing an amphiphilic fructose-based polymer. Journal of CO2 Utilization, 2019, 34, 274-281.	3.3	15
51	A one-step SC-CO2 assisted technique to produce compact PVDF-HFP MoS2 supercapacitor device. Journal of Physics and Chemistry of Solids, 2020, 136, 109132.	1.9	15
52	Supercritical CO2 assisted formation of poly(vinylidenefluoride) aerogels containing amoxicillin, used as controlled release device. Journal of Supercritical Fluids, 2011, 59, 149-156.	1.6	12
53	Supercritical Co₂Processing of Drug Loaded Membranes Based on Nanoporous PVDF-HFP Aerogels. Soft Materials, 2011, 9, 264-279.	0.8	11
54	A Phenomenological Approach to Study Mechanical Properties of Polymeric Porous Structures Processed Using Supercritical CO2. Polymers, 2019, 11, 485.	2.0	11

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55	Preparation and characterization of cellulose acetate-LaponiteÂ® composite membranes produced by supercritical phase inversion. Journal of Supercritical Fluids, 2020, 155, 104651.	1.6	11
56	Supercritical processing of PCL and PCL-PEG blends to produce improved PCL-based porous scaffolds. Journal of Supercritical Fluids, 2022, 186, 105611.	1.6	11
57	Supercritical carbon dioxide and biomedicine: Opening the doors towards biocompatibility. Chemical Engineering Journal, 2022, 444, 136615.	6.6	10
58	Cellulose Acetate and Supercritical Carbon Dioxide: Membranes, Nanoparticles, Microparticles and Nanostructured Filaments. Polymers, 2020, 12, 162.	2.0	9
59	Supercritical Fluid Processing of Polymers. Polymers, 2019, 11, 1551.	2.0	8
60	Production of fungistatic porous structures of cellulose acetate loaded with quercetin, using supercritical CO2. Journal of Supercritical Fluids, 2021, 169, 105129.	1.6	8
61	Finite element multiscale modelling of elastic behavior of cellulose acetateâ€"Graphene oxide nanocomposites, produced using a SC-CO2 assisted technique. Journal of Supercritical Fluids, 2018, 140, 248-257.	1.6	6
62	Supercritical Phase Inversion: A Powerful Tool for Generating Cellulose Acetate-AgNO3 Antimicrobial Membranes. Materials, 2020, 13, 1560.	1.3	6
63	The viscoelastic behavior of the precursor hydrogels can modify aerogel properties. Journal of Supercritical Fluids, 2022, 184, 105563.	1.6	5
64	Supercritical CO2â€"EtOH expanded liquid processing to produce tailored PEEK-WC membranes. RSC Advances, 2014, 4, 65098-65107.	1.7	4
65	High performance PVDF HFP_RuO2 supercapacitors production by supercritical drying. Journal of Supercritical Fluids, 2021, 176, 105323.	1.6	4
66	Supercritical CO2 assisted electrospray of PVP-Rutin mixtures using a liquid collector. Journal of Supercritical Fluids, 2022, 188, 105684.	1.6	3
67	3-D loaded scaffolds obtained by supercritical CO₂assisted process. IOP Conference Series: Materials Science and Engineering, 2014, 62, 012004.	0.3	1
68	PVDF HFP_RuO2 Nanocomposite Aerogels Produced by Supercritical Drying for Electrochemical Oxidation of Model Tannery Wastewaters. Nanomaterials, 2021, 11, 1436.	1.9	1
69	Using a 3-Steps Supercritical Fluids Assisted Process for the Generation of Nanostructured Biopolymeric Scaffolds. Recent Innovations in Chemical Engineering, 2019, 12, 7-14.	0.2	0
70	Supercritical Assisted Electrospray for the Production of Controlled Size Loaded PVP Microparticles. Lecture Notes in Bioengineering, 2020, , 24-31.	0.3	0