Gustavo A Abraham

List of Publications by Year
in descending order

103 papers	2,582 citations	212478 28 h-index	242451 47 g-index
105 all docs	105 docs citations	105 times ranked	3992 citing authors

#	Article	IF	Citations
1	Nanofibrous scaffolds for skin tissue engineering and wound healing applications. , 2022, , 645-681.		4
2	Additive manufacturing of bioresorbable poly(esterâ€urethane)/glassâ€ceramic composite scaffolds. Polymer Composites, 2022, 43, 5611-5622.	2.3	2
3	Latest advances in electrospun plant-derived protein scaffolds for biomedical applications. Current Opinion in Biomedical Engineering, 2021, 18, 100243.	1.8	8
4	Immobilization of vaginal Lactobacillus in polymeric nanofibers for its incorporation in vaginal probiotic products. European Journal of Pharmaceutical Sciences, 2021, 156, 105563.	1.9	27
5	Novel threeâ€dimensional printing of poly(ester urethane) scaffolds for biomedical applications. Polymers for Advanced Technologies, 2021, 32, 3309-3321.	1.6	7
6	Evaluation of human umbilical vein endothelial cells growth onto heparin-modified electrospun vascular grafts. International Journal of Biological Macromolecules, 2021, 179, 567-575.	3.6	11
7	Novel Poly(ester urethane urea)/Polydioxanone Blends: Electrospun Fibrous Meshes and Films. Molecules, 2021, 26, 3847.	1.7	5
8	Photocatalytic Reduction of Hexavalent Chromium Ions from Aqueous Solutions Using Polymeric Microfibers Surface Modified with ZnO Nanoparticles. Fibers and Polymers, 2021, 22, 3271-3280.	1.1	4
9	Zuccagnia punctata Cav. Essential Oil into Poly(Îµ-caprolactone) Matrices as a Sustainable and Environmentally Friendly Strategy Biorepellent against Triatoma infestans (Klug) (Hemiptera,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.7	4
10	Lysine-oligoether-modified electrospun poly(carbonate urethane) matrices for improving hemocompatibility response. Polymer Journal, 2021, 53, 1393-1402.	1.3	2
11	A modular platform based on electrospun carbon nanofibers and poly(<i>N</i>â€isopropylacrylamide) hydrogel for sensor applications. Polymers for Advanced Technologies, 2021, 32, 4815-4825.	1.6	3
12	Photo-crosslinked soy protein-based electrospun scaffolds. Materials Letters: X, 2021, 12, 100115.	0.3	2
13	Coreâ€"sheath nanofibrous membranes based on poly(acrylonitrileâ€butadieneâ€styrene), polyacrylonitrile, and zinc oxide nanoparticles for photoreduction of Cr(VI) ions in aqueous solutions. Journal of Applied Polymer Science, 2020, 137, 48429.	1.3	6
14	Nanofibrous membranes as smart wound dressings that release antibiotics when an injury is infected. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 587, 124313.	2.3	42
15	Small-diameter polymer-based vascular grafts: towards a biomimetic mechanical response. EXPRESS Polymer Letters, 2020, 14, 102-102.	1.1	0
16	Development and validation of a mechanistic model for the release of embelin from a polycaprolactone matrix. Polymer Testing, 2020, 91, 106855.	2.3	0
17	14-3-3Îµ protein-loaded 3D hydrogels favor osteogenesis. Journal of Materials Science: Materials in Medicine, 2020, 31, 105.	1.7	6
18	Combination of electrospinning with other techniques for the fabrication of 3D polymeric and composite nanofibrous scaffolds with improved cellular interactions. Nanotechnology, 2020, 31, 172002.	1.3	37

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19	Electrospun ethylcellulose-based nanofibrous mats with insect-repellent activity. Materials Letters, 2019, 253, 289-292.	1.3	16
20	14-3-3Îµ protein-immobilized PCL-HA electrospun scaffolds with enhanced osteogenicity. Journal of Materials Science: Materials in Medicine, 2019, 30, 99.	1.7	11
21	Fabrication of Gelatin Methacrylate (GelMA) Scaffolds with Nano- and Micro-Topographical and Morphological Features. Nanomaterials, 2019, 9, 120.	1.9	81
22	Nanocomposite electrospun micro/nanofibers for biomedical applications. , 2019, , 89-126.		7
23	Polyurethane-based structures obtained by additive manufacturing technologies. , 2019, , 235-258.		7
24	Dexamethasone-Loaded Chitosan Beads Coated with a pH-Dependent Interpolymer Complex for Colon-Specific Drug Delivery. International Journal of Polymer Science, 2019, 2019, 1-9.	1.2	9
25	The role of emulsion parameters in tramadol sustained-release from electrospun mats. Materials Science and Engineering C, 2019, 99, 1493-1501.	3.8	16
26	Effect of benign solvents composition on poly(Îµ-caprolactone) electrospun fiber properties. Materials Letters, 2019, 245, 86-89.	1.3	17
27	Effect of processing techniques on new poly(Îµâ€caprolactone)â€embelin microparticles of biomedical interest. Advances in Polymer Technology, 2018, 37, 1570-1580.	0.8	5
28	Aligned ovine diaphragmatic myoblasts overexpressing human connexin-43 seeded on poly (l-lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.7	7
29	Multilayered electrospun nanofibrous scaffolds for tailored controlled release of embelin. Soft Materials, 2018, 16, 51-61.	0.8	6
30	Effect of poly (l-lactic acid) scaffolds seeded with aligned diaphragmatic myoblasts overexpressing connexin-43 on infarct size and ventricular function in sheep with acute coronary occlusion. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 717-724.	1.9	5
31	Electrospun scaffolds with enlarged pore size: Porosimetry analysis. Materials Letters, 2018, 227, 191-193.	1.3	19
32	Amoxicillin-loaded electrospun nanocomposite membranes for dental applications. , 2017, 105, 966-976.		43
33	Surface-modified bioresorbable electrospun scaffolds for improving hemocompatibility of vascular grafts. Materials Science and Engineering C, 2017, 75, 1115-1127.	3.8	39
34	Amphiphilic electrospun scaffolds of PLLAâ€"PEOâ€"PPO block copolymers: preparation, characterization and drug-release behaviour. RSC Advances, 2017, 7, 161-172.	1.7	11
35	Temperature-sensitive biocompatible IPN hydrogels based on poly(NIPA-PEGdma) and photocrosslinkable gelatin methacrylate. Soft Materials, 2017, 15, 341-349.	0.8	14
36	Elasticity response of electrospun bioresorbable small-diameter vascular grafts: Towards a biomimetic mechanical response. Materials Letters, 2017, 209, 175-177.	1.3	4

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37	Current advances in electrospun gelatin-based scaffolds for tissue engineering applications. International Journal of Pharmaceutics, 2017, 523, 441-453.	2.6	209
38	Micro/nanofiber-based scaffolds for soft tissue engineering applications. , 2016, , 201-229.		2
39	HMDSO-plasma coated electrospun fibers of poly(cyclodextrin)s for antifungal dressings. International Journal of Pharmaceutics, 2016, 513, 518-527.	2.6	17
40	Smart lipid nanoparticles containing levofloxacin and DNase for lung delivery. Design and characterization. Colloids and Surfaces B: Biointerfaces, 2016, 143, 168-176.	2.5	83
41	InÂvitro degradation of electrospun poly(l-lactic acid)/segmented poly(ester urethane) blends. Polymer Degradation and Stability, 2016, 126, 159-169.	2.7	18
42	Mechanical behavior of bilayered small-diameter nanofibrous structures as biomimetic vascular grafts. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 60, 220-233.	1.5	64
43	Mechanical behavior of polyurethane-based small-diameter vascular grafts. , 2016, , 451-477.		7
44	A biomechanical international network for the assessment of tissue engineered blood vessels. , 2015, , .		0
45	High pressure assessment of bilayered electrospun vascular grafts by means of an Electroforce Biodynamic System®. , 2015, 2015, 3533-6.		0
46	Electrospun nanofibrous scaffolds of segmented polyurethanes based on PEG, PLLA and PTMC blocks: Physico-chemical properties and morphology. Materials Science and Engineering C, 2015, 56, 511-517.	3.8	36
47	An In Vitro Set Up for the Assessment of Electrospun Nanofibrous Vascular Grafts. IFMBE Proceedings, 2015, , 144-147.	0.2	1
48	Didanosine-loaded poly(epsilon-caprolactone) microparticles by a coaxial electrohydrodynamic atomization (CEHDA) technique. Journal of Materials Chemistry B, 2015, 3, 102-111.	2.9	12
49	Random and aligned PLLA : PRGF electrospun scaffolds for regenerative medicine. Journal of Applied Polymer Science, 2015, 132, .	1.3	14
50	Similarities of arterial collagen pressure-diameter relationship in ovine femoral arteries and PLLA vascular grafts. , 2014, 2014, 2302-5.		1
51	Structural characterization of electrospun micro/nanofibrous scaffolds by liquid extrusion porosimetry: A comparison with other techniques. Materials Science and Engineering C, 2014, 41, 335-342.	3.8	24
52	Elasticity assessment of electrospun nanofibrous vascular grafts: A comparison with femoral ovine arteries. Materials Science and Engineering C, 2014, 45, 446-454.	3.8	21
53	Optimization of poly(l-lactic acid)/segmented polyurethane electrospinning process for the production of bilayered small-diameter nanofibrous tubular structures. Materials Science and Engineering C, 2014, 42, 489-499.	3.8	42
54	Evaluation of in vitro cytotoxic activity of mono-PEGylated StAP3 (Solanum tuberosum aspartic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	2.1	1

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55	Effect of topology on the adhesive forces between electrospun polymer fibers using a T-peel test. Polymer Engineering and Science, 2013, 53, 2219-2227.	1.5	13
56	Synthesis, characterization and applications of amphiphilic elastomeric polyurethane networks in drug delivery. Polymer Journal, 2013, 45, 331-338.	1.3	26
57	CuantificaciÃ³n de la MorfologÃa en ImÃ¡genes de Nanofibras PolimÃ©ricas para IngenierÃa de Tejidos. IFMBE Proceedings, 2013, , 1015-1018.	0.2	0
58	<I>A Special Issue on</I> Nanomedicine in Latin America. Journal of Biomaterials and Tissue Engineering, 2013, 3, 1-3.	0.0	6
59	Development of Electrospun Nanofibers for Biomedical Applications: State of the Art in Latin America. Journal of Biomaterials and Tissue Engineering, 2013, 3, 39-60.	0.0	8
60	Dispersion and release of embelin from electrospun, biodegradable, polymeric membranes. Polymer Journal, 2012, 44, 1105-1111.	1.3	12
61	Fast and efficient synthesis of high molecular weight poly(epsilonâ€caprolactone) diols by microwaveâ€assisted polymer synthesis. Journal of Applied Polymer Science, 2011, 121, 1321-1329.	1.3	14
62	Biodegradable polyurethanes: Comparative study of electrospun scaffolds and films. Journal of Applied Polymer Science, 2011, 121, 3292-3299.	1.3	17
63	Microwave-assisted polymer synthesis (MAPS) as a tool in biomaterials science: How new and how powerful. Progress in Polymer Science, 2011, 36, 1050-1078.	11.8	122
64	Osteoblast Behavior on Novel Porous Polymeric Scaffolds. Journal of Biomaterials and Tissue Engineering, 2011, 1, 86-92.	0.0	7
65	Effect of the hard segment chemistry and structure on the thermal and mechanical properties of novel biomedical segmented poly(esterurethanes). Journal of Materials Science: Materials in Medicine, 2009, 20, 145-155.	1.7	70
66	Electrospinning of novel biodegradable poly(ester urethane)s and poly(ester urethane urea)s for soft tissue-engineering applications. Journal of Materials Science: Materials in Medicine, 2009, 20, 2129-2137.	1.7	51
67	Segmented poly(esterurethane urea)s from novel ureaâ€“diol chain extenders: Synthesis, characterization and in vitro biological properties. Acta Biomaterialia, 2008, 4, 976-988.	4.1	41
68	Effect of nanotube functionalization on the properties of single-walled carbon nanotube/polyurethane composites. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 490-501.	2.4	121
69	Controlled release of 5-fluorouridine from radiation-crosslinked poly(ethylene-co-vinyl acetate) films. Acta Biomaterialia, 2006, 2, 641-650.	4.1	21
70	Synthesis and characterization of biodegradable non-toxic poly(ester-urethane-urea)s based on poly(Îµ-caprolactone) and amino acid derivatives. Polymer, 2006, 47, 785-798.	1.8	135
71	Antithrombogenic properties of bioconjugate streptokinase-polyglycerol dendrimers. Journal of Materials Science: Materials in Medicine, 2006, 17, 105-111.	1.7	45
72	Bioresorbable poly(ester-ether urethane)s fromL-lysine diisocyanate and triblock copolymers with different hydrophilic character. Journal of Biomedical Materials Research - Part A, 2006, 76A, 729-736.	2.1	46

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73	Physicochemical and antimicrobial properties of boron-complexed polyglycerolâ€“chitosan dendrimers. Journal of Biomaterials Science, Polymer Edition, 2006, 17, 689-707.	1.9	35
74	Drug complexation and physicochemical properties of vinylpyrrolidone-N,Nâ€²-dimethylacrylamide copolymers. Journal of Applied Polymer Science, 2004, 93, 1337-1347.	1.3	7
75	Macroporous poly(Îµ-caprolactone) with antimicrobial activity obtained by iodine polymerization. Journal of Biomedical Materials Research - Part A, 2004, 68A, 473-478.	2.1	10
76	Influence of cross-linked PMMA beads on the mechanical behavior of self-curing acrylic cements. , 2004, 70B, 407-416.		24
77	Mechanical characterization of self-curing acrylic cements formulated with poly(methylmethacrylate)/poly(Îµ-caprolactone) beads. , 2004, 70B, 340-347.		8
78	Chain Copolymerization Reactions: An Algorithm To Predict the Reaction Evolution with Conversion. Journal of Chemical Education, 2004, 81, 1210.	1.1	23
79	Development of new hydroactive dressings based on chitosan membranes: Characterization andin vivobehavior. Journal of Biomedical Materials Research - Part A, 2003, 64A, 147-154.	2.1	40
80	Polymeric matrices based on graft copolymers of PCL onto acrylic backbones for releasing antitumoral drugs. Journal of Biomedical Materials Research - Part A, 2003, 64A, 638-647.	2.1	21
81	Central Neural Tumor Destruction by Controlled Release of a Synthetic Glycoside Dispersed in a Biodegradable Polymeric Matrix. Journal of Medicinal Chemistry, 2003, 46, 1286-1288.	2.9	14
82	Crosslinkable PEO-PPO-PEO-based reverse thermo-responsive gels as potentially injectable materials. Journal of Biomaterials Science, Polymer Edition, 2003, 14, 227-239.	1.9	85
83	Key-Properties and Recent Advances in Bone Cements Technology. , 2002, , 69-92.		1
84	An Evolutionary Approach to the Estimation of Reactivity Ratios. Macromolecular Theory and Simulations, 2002, 11, 525.	0.6	12
85	Microcomposites of Poly(-caprolactone) and Poly(methyl methacrylate) Prepared by Suspension Polymerization in the Presence of Poly(-caprolactone) Macromonomer. Macromolecular Materials and Engineering, 2002, 287, 938-945.	1.7	4
86	Transport properties and mechanical behavior of poly(methyl-phenylsiloxane) membranes as a function of methyl to phenyl groups ratio. Journal of Applied Polymer Science, 2002, 85, 1624-1633.	1.3	2
87	Self-curing acrylic formulations containing PMMA/PCL composites: Properties and antibiotic release behavior. Journal of Biomedical Materials Research Part B, 2002, 61, 66-74.	3.0	28
88	New acrylic bone cements conjugated to vitamin E: Curing parameters, properties, and biocompatibility. Journal of Biomedical Materials Research Part B, 2002, 62, 299-307.	3.0	47
89	Ring-opening polymerization of Îµ-caprolactone by iodine charge-transfer complex. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 714-722.	2.4	15
90	Immobilization of a nonsteroidal antiinflammatory drug onto commercial segmented polyurethane surface to improve haemocompatibility properties. Biomaterials, 2002, 23, 1625-1638.	5.7	44

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91	Polymeric Matrices for Release of Growth Factors, Hormones and Other Bioactive Agents. , 2002, , 37-52.		0
92	Microbial Synthesis of Poly(Î²-hydroxyalkanoates) Bearing Phenyl Groups fromPseudomonasputida:Â Chemical Structure and Characterization. Biomacromolecules, 2001, 2, 562-567.	2.6	45
93	Genetically engineered Pseudomonas: a factory of new bioplastics with broad applications. Environmental Microbiology, 2001, 3, 612-618.	1.8	79
94	Hydrophilic hybrid IPNs of segmented polyurethanes and copolymers of vinylpyrrolidone for applications in medicine. Biomaterials, 2001, 22, 1971-1985.	5.7	77
95	Resistive-type humidity sensors based on PVP-Co and PVP-I2 complexes. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 459-469.	2.4	35
96	?-Caprolactone/ZnCl2 complex formation: Characterization and ring-opening polymerization mechanism. Journal of Polymer Science Part A, 2000, 38, 1355-1365.	2.5	39
97	Microheterogeneous polymer systems prepared by suspension polymerization of methyl methacrylate in the presence of poly(-caprolactone). Macromolecular Materials and Engineering, 2000, 282, 44-50.	1.7	24
98	Molding of biomedical segmented polyurethane delamination events and stretching behavior. Journal of Applied Polymer Science, 1998, 69, 2159-2167.	1.3	9
99	Modeling of Segmented Polyurethane Drying Process. International Polymer Processing, 1998, 13, 369-378.	0.3	6
100	Physical and mechanical behavior of sterilized biomedical segmented polyurethanes. Journal of Applied Polymer Science, 1997, 65, 1193-1203.	1.3	50
101	A Novel Bone Scaffolds Based on Hyperbranched Polyglycerol Fibers Filled with Hydroxyapatite Nanoparticles: <i>In Vitro</i> Cell Response. Key Engineering Materials, 0, 396-398, 633-636.	0.4	2
102	Resorbable Polymeric Delivery Systems. , 0, , 6973-6985.		0
103	Poliuretanos biomÃ©dicos: sÃntesis, propiedades, procesamiento y aplicaciones. , 0, , 147-181.		2