

Juan V Cauich-Rodriguez

List of Publications by Year in descending order

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95
papers

3,548
citations

159585

30
h-index

149698

56
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95
all docs

95
docs citations

95
times ranked

5356
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospun/3D-printed PCL bioactive scaffold for bone regeneration. <i>Polymer Bulletin</i> , 2023, 80, 2533-2552.	3.3	4
2	Design of a polyacrylamide and gelatin hydrogel as a synthetic extracellular matrix. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2022, 71, 266-277.	3.4	9
3	Clindamycin-loaded nanofibers of polylactic acid, elastin and gelatin for use in tissue engineering. <i>Polymer Bulletin</i> , 2022, 79, 5495-5513.	3.3	6
4	Polyurethane electrospun membranes with hydroxyapatite/vancomycin for potential application in bone tissue engineering and drug delivery. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51893.	2.6	3
5	Effect of barium sulfate surface treatments on the mechanical properties of acrylic bone cements. <i>Polymer Bulletin</i> , 2021, 78, 5997-6010.	3.3	7
6	Synthesis and characterization of metformin-pluronic based polyurethanes for controlled drug delivery. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2021, 70, 656-667.	3.4	8
7	Antibacterial Behavior of Chitosan-Sodium Hyaluronate-PEGDE Crosslinked Films. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1267.	2.5	10
8	Segmented Poly(urea)urethane Nanoparticles: Size Optimization Using Taguchi Experimental Design and Nanoprecipitation Method. <i>Current Nanoscience</i> , 2021, 17, 70-80.	1.2	1
9	On arginine-based polyurethane blends specific to vascular prostheses. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51247.	2.6	5
10	Zinc Oxide and Copper Chitosan Composite Films with Antimicrobial Activity. <i>Polymers</i> , 2021, 13, 3861.	4.5	14
11	Design, synthesis, characterization, and cytotoxicity of PCL/PLGA scaffolds through plasma treatment in the presence of pyrrole for possible use in urethral tissue engineering. <i>Journal of Biomaterials Applications</i> , 2020, 34, 840-850.	2.4	9
12	Antibacterial properties and release kinetics of chlorhexidine diacetate from montmorillonite and palygorskite clays. <i>Journal of Biomaterials Applications</i> , 2020, 34, 1052-1058.	2.4	10
13	Synthesis and characterization of pH sensitive hydrogel nanoparticles based on poly(N-isopropyl) Tj ETQq1 1 0.784314 rgBT (Overlock	3.6	8
14	Effect of Type and Concentration of Nanoclay on the Mechanical and Physicochemical Properties of Bis-GMA/TTEGDMA Dental Resins. <i>Polymers</i> , 2020, 12, 601.	4.5	10
15	In vitro and in vivo anti-inflammatory properties of Mayan propolis. <i>European Journal of Inflammation</i> , 2020, 18, 205873922093528.	0.5	7
16	Cell-free scaffold from jellyfish <i>Cassiopea andromeda</i> (Cnidaria; Scyphozoa) for skin tissue engineering. <i>Materials Science and Engineering C</i> , 2020, 111, 110748.	7.3	24
17	Flexural electromechanical properties of multilayer graphene sheet/carbon nanotube/vinyl ester hybrid nanocomposites. <i>Composites Science and Technology</i> , 2020, 194, 108164.	7.8	10
18	Antibacterial activity of a glass ionomer cement doped with copper nanoparticles. <i>Dental Materials Journal</i> , 2020, 39, 389-396.	1.8	19

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19	Electro-mechanical properties of thermoplastic polyurethane films and tubes modified by hybrid carbon nanostructures for pressure sensing. <i>Smart Materials and Structures</i> , 2020, 29, 115021.	3.5	8
20	The Effect of PEGDE Concentration and Temperature on Physicochemical and Biological Properties of Chitosan. <i>Polymers</i> , 2019, 11, 1830.	4.5	19
21	Balancing Porosity and Mechanical Properties of Titanium Samples to Favor Cellular Growth against Bacteria. <i>Metals</i> , 2019, 9, 1039.	2.3	23
22	Titanium - castor oil based polyurethane composite foams for bone tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2019, 30, 1415-1432.	3.5	11
23	Effect of two crosslinking methods on the physicochemical and biological properties of the collagen-chitosan scaffolds. <i>European Polymer Journal</i> , 2019, 117, 424-433.	5.4	45
24	Mechanical properties of l-lysine based segmented polyurethane vascular grafts and their shape memory potential. <i>Materials Science and Engineering C</i> , 2019, 102, 887-895.	7.3	22
25	Preparation and Characterization of Flexible, Transparent and Thermally Stable Aromatic Co-polyamides. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019, 37, 136-141.	3.8	10
26	Design and analysis of a burst strength device for testing vascular grafts. <i>Review of Scientific Instruments</i> , 2019, 90, 014301.	1.3	4
27	Study of the release kinetics of (α) epicatechin: Effect of its location within the fiber or sphere. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47166.	2.6	1
28	Prediction of circumferential compliance and burst strength of polymeric vascular grafts. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 79, 332-340.	3.1	25
29	Thermal degradation of poly(caprolactone), poly(lactic acid), and poly(hydroxybutyrate) studied by TGA/FTIR and other analytical techniques. <i>Polymer Bulletin</i> , 2018, 75, 4191-4205.	3.3	60
30	Effect of the rigid segment content on the properties of segmented polyurethanes conjugated with atorvastatin as chain extender. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 161.	3.6	8
31	Design of Silica@Oligourethane@Collagen Membranes for Inflammatory Response Modulation: Characterization and Polarization of a Macrophage Cell Line. <i>Macromolecular Bioscience</i> , 2018, 18, e1800099.	4.1	16
32	Effect of cyclodextrins and Mexican oregano (<i>Lippia graveolens</i> Kunth) chemotypes on the microencapsulation of essential oil. <i>Industrial Crops and Products</i> , 2018, 121, 114-123.	5.2	31
33	Preparation and characterization of titanium@segmented polyurethane composites for bone tissue engineering. <i>Journal of Biomaterials Applications</i> , 2018, 33, 11-22.	2.4	9
34	Improving Carbon Nanotube/Polymer Interactions in Nanocomposites. , 2018, , 83-115.		11
35	Characterization of model compounds and poly(amide-urea) urethanes based on amino acids by FTIR, NMR and other analytical techniques. <i>European Polymer Journal</i> , 2017, 92, 27-39.	5.4	41
36	Effect of the type of plasma on the polydimethylsiloxane/collagen composites adhesive properties. <i>International Journal of Adhesion and Adhesives</i> , 2017, 77, 85-95.	2.9	13

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37	Electrospun polycaprolactone/chitosan scaffolds for nerve tissue engineering: physicochemical characterization and Schwann cell biocompatibility. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 015008.	3.3	67
38	Physico Chemical Characterization of Nanofibrous Poly(ϵ -Caprolactone) Electrospun Templates for Cell Adhesion. <i>MRS Advances</i> , 2017, 2, 2689-2694.	0.9	0
39	Influence of rigid segment content on the piezoresistive behavior of multiwall carbon nanotube/segmented polyurethane composites. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	5
40	Enhancement of Electrochemical Glucose Sensing by Using Multiwall Carbon Nanotubes decorated with Iron Oxide Nanoparticles. <i>International Journal of Electrochemical Science</i> , 2016, 11, 6356-6369.	1.3	16
41	Damage accumulation studied by acoustic emission in bone cement prepared with core-shell nanoparticles under fatigue. <i>Journal of Materials Science</i> , 2016, 51, 5635-5645.	3.7	6
42	Surface modification of electrospun polycaprolactone microfibers by air plasma treatment: Effect of plasma power and treatment time. <i>European Polymer Journal</i> , 2016, 84, 502-513.	5.4	46
43	Preparation and bioactive properties of nano bioactive glass and segmented polyurethane composites. <i>Journal of Biomaterials Applications</i> , 2016, 30, 1362-1372.	2.4	8
44	Influence of rigid segment and carbon nanotube concentration on the cyclic piezoresistive and hysteretic behavior of multiwall carbon nanotube/segmented polyurethane composites. <i>Composites Science and Technology</i> , 2016, 128, 25-32.	7.8	88
45	Multiwall carbon nanotubes/polycaprolactone scaffolds seeded with human dental pulp stem cells for bone tissue regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 35.	3.6	37
46	Human mesenchymal stem cell behavior on segmented polyurethanes prepared with biologically active chain extenders. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 38.	3.6	8
47	Effect of wettability and surface roughness on the adhesion properties of collagen on PDMS films treated by capacitively coupled oxygen plasma. <i>Applied Surface Science</i> , 2015, 349, 763-773.	6.1	88
48	Evaluation of damage progression and mechanical behavior under compression of bone cements containing core-shell nanoparticles by using acoustic emission technique. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 46, 137-147.	3.1	6
49	Interactions between the glass fiber coating and oxidized carbon nanotubes. <i>Applied Surface Science</i> , 2015, 330, 383-392.	6.1	40
50	Influence of nanotube physicochemical properties on the decoration of multiwall carbon nanotubes with magnetic particles. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	6
51	Synthesis and characterization of protected oligourethanes as crosslinkers of collagen-based scaffolds. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2874-2882.	5.8	36
52	Physicochemical characterization of segmented polyurethanes prepared with glutamine or ascorbic acid as chain extenders and their hydroxyapatite composites. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1966-1976.	5.8	30
53	Towards optimization of the silanization process of hydroxyapatite for its use in bone cement formulations. <i>Materials Science and Engineering C</i> , 2014, 40, 157-163.	7.3	30
54	On the Role of Fiber Coating in the Deposition of Multiwall Carbon Nanotubes Onto Glass Fibers. <i>Nanoscience and Nanotechnology Letters</i> , 2014, 6, 932-935.	0.4	8

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55	Characterization and biocompatibility studies of new degradable poly(urea)urethanes prepared with arginine, glycine or aspartic acid as chain extenders. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 1733-1744.	3.6	30
56	Tensile piezoresistivity and disruption of percolation in singlewall and multiwall carbon nanotube/polyurethane composites. <i>Synthetic Metals</i> , 2013, 185-186, 96-102.	3.9	17
57	Synthesis and characterization of core-shell nanoparticles and their influence on the mechanical behavior of acrylic bone cements. <i>Materials Science and Engineering C</i> , 2013, 33, 1737-1743.	7.3	28
58	Physicochemical and biological characterization of nanocomposites made of segmented polyurethanes and Cloisite 30B. <i>Journal of Biomaterials Applications</i> , 2013, 28, 38-48.	2.4	3
59	Stability and mechanical evaluation of bovine pericardium cross-linked with polyurethane prepolymer in aqueous medium. <i>Materials Science and Engineering C</i> , 2013, 33, 2392-2398.	7.3	35
60	Sensing of large strain using multiwall carbon nanotube/segmented polyurethane composites. <i>Journal of Applied Polymer Science</i> , 2013, 130, 375-382.	2.6	48
61	Platelet adhesion and human umbilical vein endothelial cell cytocompatibility of biodegradable segmented polyurethanes prepared with 4,4'-methylene bis(cyclohexyl isocyanate), poly(caprolactone) diol and butanediol or dithioerythritol as chain extenders. <i>Journal of Biomaterials Applications</i> , 2013, 28, 270-277.	2.4	9
62	HUVEC biocompatibility and platelet activation of segmented polyurethanes prepared with either glutathione or its amino acids as chain extenders. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013, 24, 1601-1617.	3.5	5
63	Mechanical properties of PET composites using multi-walled carbon nanotubes functionalized by inorganic and itaconic acids. <i>EXPRESS Polymer Letters</i> , 2012, 6, 96-106.	2.1	40
64	TEM Examination of MWCNTs Oxidized by Mild Experimental Conditions. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2012, 20, 49-55.	2.1	19
65	Rapid, simple, and cost-effective treatments to achieve long-term hydrophilic PDMS surfaces. <i>Applied Surface Science</i> , 2012, 258, 9864-9875.	6.1	124
66	Comparative study on the mechanical and fracture properties of acrylic bone cements prepared with monomers containing amine groups. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 6, 95-105.	3.1	21
67	On the merits of Raman spectroscopy and thermogravimetric analysis to asses carbon nanotube structural modifications. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 106, 843-852.	2.3	30
68	Combined Influence of Barium Sulfate Content and Co-monomer Concentration on Properties of PMMA Bone Cements for Vertebroplasty. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011, 22, 1563-1580.	3.5	9
69	A TG/FTIR study on the thermal degradation of poly(vinyl pyrrolidone). <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 104, 737-742.	3.6	190
70	Decellularization of pericardial tissue and its impact on tensile viscoelasticity and glycosaminoglycan content. <i>Acta Biomaterialia</i> , 2011, 7, 1241-1248.	8.3	148
71	Characterization of the movement of polypyrrole-dodecylbenzenesulfonate-perchlorate/tape artificial muscles. Faradaic control of reactive artificial molecular motors and muscles. <i>Electrochimica Acta</i> , 2011, 56, 3721-3726.	5.2	68
72	Oxidation and silanization of MWCNTs for MWCNT/vinyl ester composites. <i>EXPRESS Polymer Letters</i> , 2011, 5, 766-776.	2.1	42

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73	Degradation studies on segmented polyurethanes prepared with HMDI, PCL and different chain extenders. <i>Acta Biomaterialia</i> , 2010, 6, 2035-2044.	8.3	121
74	Polypyrrole free-standing electrodes sense temperature or current during reaction. <i>Polymer International</i> , 2010, 59, 337-342.	3.1	19
75	Sensing and Tactile Artificial Muscles from Reactive Materials. <i>Sensors</i> , 2010, 10, 2638-2674.	3.8	89
76	TGA/FTIR studies of segmented aliphatic polyurethanes and their nanocomposites prepared with commercial montmorillonites. <i>Polymer Degradation and Stability</i> , 2009, 94, 1666-1677.	5.8	143
77	Evaluation of mild acid oxidation treatments for MWCNT functionalization. <i>Carbon</i> , 2009, 47, 2970-2975.	10.3	531
78	Thermal degradation behavior of polymethacrylates containing amine side groups. <i>Polymer Degradation and Stability</i> , 2008, 93, 1891-1900.	5.8	49
79	Structure-property relationships of DEAE-containing bone cements: effect of the substitution of a methylene group by an aromatic ring. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 1-16.	3.5	5
80	Synthesis of HMDI-based segmented polyurethanes and their use in the manufacture of elastomeric composites for cardiovascular applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 561-578.	3.5	31
81	Thermal degradation of commercially available organoclays studied by TGA-FTIR. <i>Thermochimica Acta</i> , 2007, 457, 92-102.	2.7	254
82	Surface characterisation of various bone cements prepared with functionalised methacrylates/bioactive ceramics in relation to HOB behaviour. <i>Acta Biomaterialia</i> , 2006, 2, 143-154.	8.3	5
83	TGA/FTIR study on thermal degradation of polymethacrylates containing carboxylic groups. <i>Polymer Degradation and Stability</i> , 2006, 91, 3312-3321.	5.8	79
84	Comparative study on the properties of acrylic bone cements prepared with either aliphatic or aromatic functionalized methacrylates. <i>Biomaterials</i> , 2005, 26, 4063-4072.	11.4	23
85	Physicochemical, Mechanical, and Biological Properties of Bone Cements Prepared with Functionalized Methacrylates. <i>Journal of Biomaterials Applications</i> , 2004, 19, 147-161.	2.4	12
86	Comparative study of bone cements prepared with either HA or β -TCP and functionalized methacrylates. <i>Biomaterials</i> , 2003, 24, 27-37.		40
87	Characterization of bone cements prepared with functionalized methacrylates and hydroxyapatite. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2001, 12, 893-910.	3.5	37
88	Physicochemical characterization of hydrogels based on polyvinyl alcohol-vinyl acetate blends. <i>Journal of Applied Polymer Science</i> , 2001, 82, 3578-3590.	2.6	11
89	Effect of cross-linking agents on the dynamic mechanical properties of hydrogel blends of poly(acrylic acid)-poly(vinyl alcohol-vinyl acetate). <i>Biomaterials</i> , 1996, 17, 2259-2264.	11.4	52
90	Characterization of hydrogel blends of poly(vinyl pyrrolidone) and poly(vinyl alcohol-vinyl acetate). <i>Journal of Materials Science: Materials in Medicine</i> , 1996, 7, 269-272.	3.6	9

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91	Dynamic mechanical characterization of hydrogel blends of poly(vinyl alcohol-vinyl acetate) with poly(acrylic acid) or poly(vinyl pyrrolidone). Journal of Materials Science: Materials in Medicine, 1996, 7, 349-353.	3.6	10
92	Study of crosslinking density in polydimethylsiloxane networks by DSC. Journal of Applied Polymer Science, 1995, 55, 1317-1327.	2.6	42
93	Poly(vinyl alcohol)/poly(acrylic acid) blends: Miscibility studies by DSC and characterization of their thermally induced hydrogels. Journal of Applied Polymer Science, 1993, 50, 777-792.	2.6	67
94	Evaluation of the osteoinductive potential of HDPSCs cultured on β -glycerol phosphate functionalized MWCNTs/PCL membranes for bone regeneration. Polymer Bulletin, 0, , 1.	3.3	0
95	Bone Cements: Formulation, Modification, and Characterization. , 0, , 1053-1066.		7