

Humberto Palza

List of Publications by Year in descending order

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86
papers

3,300
citations

159525

30
h-index

161767

54
g-index

88
all docs

88
docs citations

88
times ranked

4519
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of graphene oxide on the pH-responsive drug release from supramolecular hydrogels. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51420.	1.3	12
2	Shape fidelity, mechanical and biological performance of 3D printed polycaprolactone-bioactive glass composite scaffolds. <i>Materials Science and Engineering C</i> , 2022, 134, 112540.	3.8	12
3	Cytocompatible drug delivery hydrogels based on carboxymethylagarose/chitosan pH-responsive polyelectrolyte complexes. <i>International Journal of Biological Macromolecules</i> , 2022, 199, 96-107.	3.6	14
4	An Overview for the Design of Antimicrobial Polymers: From Standard Antibiotic-Release Systems to Topographical and Smart Materials. <i>Annual Review of Materials Research</i> , 2022, 52, 1-24.	4.3	6
5	Superhydrophobic SLA 3D printed materials modified with nanoparticles biomimicking the hierarchical structure of a rice leaf. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 300-321.	2.8	25
6	Preparation of osteoinductive Antimicrobial nanocomposite scaffolds based on poly (D,L-lactide-co-glycolide) modified with copper Doped bioactive glass nanoparticles. <i>Polymers and Polymer Composites</i> , 2022, 30, 096739112210982.	1.0	1
7	Review: Auxetic Polymer-Based Mechanical Metamaterials for Biomedical Applications. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2798-2824.	2.6	25
8	Li-doped bioglass® 45S5 for potential treatment of prevalent oral diseases. <i>Journal of Dentistry</i> , 2021, 105, 103575.	1.7	15
9	A multifunctional bi-phasic graphene oxide/chitosan paper for water treatment. <i>Separation and Purification Technology</i> , 2020, 235, 116181.	3.9	21
10	Chondroinductive Alginate-Based Hydrogels Having Graphene Oxide for 3D Printed Scaffold Fabrication. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4343-4357.	4.0	107
11	Electroactive 3D Printed Scaffolds Based on Percolated Composites of Polycaprolactone with Thermally Reduced Graphene Oxide for Antibacterial and Tissue Engineering Applications. <i>Nanomaterials</i> , 2020, 10, 428.	1.9	44
12	Effect of Cu- and Zn-Doped Bioactive Glasses on the In Vitro Bioactivity, Mechanical and Degradation Behavior of Biodegradable PDLA Scaffolds. <i>Materials</i> , 2020, 13, 2908.	1.3	18
13	Effect of bioglass nanoparticles on the properties and bioactivity of poly(lactic acid) films. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 2032-2043.	2.1	12
14	Anti-adhesion and antibacterial activity of silver nanoparticles and graphene oxide-silver nanoparticle composites. <i>Revista Materia</i> , 2020, 25, .	0.1	8
15	Antibacterial Silver Nanoparticles Supported on Graphene Oxide with Reduced Cytotoxicity. <i>Jom</i> , 2019, 71, 3698-3705.	0.9	12
16	3D Printing of Antimicrobial Alginate/Bacterial-Cellulose Composite Hydrogels by Incorporating Copper Nanostructures. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6290-6299.	2.6	88
17	Polyethylene/graphene oxide composites toward multifunctional active packaging films. <i>Composites Science and Technology</i> , 2019, 184, 107888.	3.8	33
18	Novel magnetic CoFe ₂ O ₄ /layered double hydroxide nanocomposites for recoverable anionic adsorbents for water treatment. <i>Applied Clay Science</i> , 2019, 183, 105350.	2.6	25

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19	Electroactive Smart Polymers for Biomedical Applications. <i>Materials</i> , 2019, 12, 277.	1.3	141
20	Effect of starch nanoparticles on the crystallization kinetics and photodegradation of high density polyethylene. <i>Composites Part B: Engineering</i> , 2019, 174, 106979.	5.9	28
21	About the relevance of particle shape and graphene oxide on the behavior of direct absorption solar collectors using metal based nanofluids under different radiation intensities. <i>Energy Conversion and Management</i> , 2019, 181, 247-257.	4.4	57
22	Effect of CaCO ₃ Nanoparticles on the Mechanical and Photo-Degradation Properties of LDPE. <i>Molecules</i> , 2019, 24, 126.	1.7	36
23	Effect of thermally reduced graphene oxides obtained at different temperatures on the barrier and mechanical properties of polypropylene/TRGO and polyamide-6/TRGO nanocomposites. <i>Polymer Composites</i> , 2019, 40, E1746-E1756.	2.3	4
24	Polymer Composites With Metal Nanoparticles. , 2019, , 249-286.		35
25	In situ antimicrobial behavior of materials with copper-based additives in a hospital environment. <i>International Journal of Antimicrobial Agents</i> , 2018, 51, 912-917.	1.1	74
26	About the relevance of waviness, agglomeration, and strain on the electrical behavior of polymer composites filled with carbon nanotubes evaluated by a Monte-Carlo simulation. <i>Materials Research Express</i> , 2018, 5, 015044.	0.8	6
27	Encapsulation of specific <i>Salmonella Enteritidis</i> phage f31±SE on alginate-spheres as a method for protection and dosification. <i>Electronic Journal of Biotechnology</i> , 2018, 31, 57-60.	1.2	21
28	Cu/Al and Cu/Cr based layered double hydroxide nanoparticles as adsorption materials for water treatment. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 59, 134-140.	2.9	36
29	Poly(lactic acid) composites based on graphene oxide particles with antibacterial behavior enhanced by electrical stimulus and biocompatibility. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1051-1060.	2.1	61
30	Mechanical properties and morphological characteristics of ARALL reinforced with TRGO doped epoxy resin. <i>Revista Materia</i> , 2018, 23, .	0.1	1
31	Mechanical properties and morphological characteristics of ARALL reinforced with TRGO doped epoxy resin. <i>Revista Materia</i> , 2018, 23, .	0.1	1
32	Effect of the Oxidation Degree of Graphene Oxides on their Adsorption, Flocculation, and Antibacterial Behavior. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 15722-15730.	1.8	22
33	Shape memory composites based on a thermoplastic elastomer polyethylene with carbon nanostructures stimulated by heat and solar radiation having piezoresistive behavior. <i>Polymer International</i> , 2018, 67, 1046-1053.	1.6	6
34	Effect of copper nanoparticles on the cell viability of polymer composites. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2017, 66, 462-468.	1.8	17
35	Role of the Catalyst in the Pyrolysis of Polyolefin Mixtures and Used Tires. <i>Energy & Fuels</i> , 2017, 31, 3111-3120.	2.5	22
36	PDLLA scaffolds with Cu and Zn doped bioactive glasses having multifunctional properties for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 746-756.	2.1	52

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37	Antibacterial Carbon Nanotubes by Impregnation with Copper Nanostructures. <i>Jom</i> , 2017, 69, 1319-1324.	0.9	8
38	Influence of Organically-Modified Montmorillonite and Synthesized Layered Silica Nanoparticles on the Properties of Polypropylene and Polyamide-6 Nanocomposites. <i>Polymers</i> , 2016, 8, 386.	2.0	19
39	Effect of Carbon-Based Particles on the Mechanical Behavior of Isotactic Poly(propylene)s. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 429-440.	1.7	12
40	Nanoparticle reinforcement in elastomeric polyethylene composites under tensile tests. <i>Composites Part B: Engineering</i> , 2016, 107, 97-105.	5.9	10
41	Elastomeric ethylene copolymers with carbon nanostructures having tailored strain sensor behavior and their interpretation based on the excluded volume theory. <i>Polymer International</i> , 2016, 65, 1441-1448.	1.6	9
42	Effect of morphology on the permeability, mechanical and thermal properties of polypropylene/SiO ₂ nanocomposites. <i>Polymer International</i> , 2015, 64, 1245-1251.	1.6	14
43	Effect of hydrothermally synthesized titanium nanotubes on the behaviour of polypropylene for antimicrobial applications. <i>Polymer International</i> , 2015, 64, 1442-1450.	1.6	13
44	Effect of carbon nanotubes on thermal pyrolysis of high density polyethylene and polypropylene. <i>Polymer Degradation and Stability</i> , 2015, 120, 122-134.	2.7	25
45	Antimicrobial Polymers with Metal Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2015, 16, 2099-2116.	1.8	582
46	Antimicrobial polymer composites with copper micro- and nanoparticles: Effect of particle size and polymer matrix. <i>Journal of Bioactive and Compatible Polymers</i> , 2015, 30, 366-380.	0.8	79
47	Sol-gel synthesis and <i>in vitro</i> bioactivity of copper and zinc-doped silicate bioactive glasses and glass-ceramics. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 025001.	1.7	103
48	Synthesis of copper nanostructures on silica-based particles for antimicrobial organic coatings. <i>Applied Surface Science</i> , 2015, 357, 86-90.	3.1	31
49	Improving the metal ion release from nanoparticles embedded in a polypropylene matrix for antimicrobial applications. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	13
50	Electrical behavior of polypropylene composites melt mixed with carbon-based particles: Effect of the kind of particle and annealing process. <i>Composites Science and Technology</i> , 2014, 99, 117-123.	3.8	71
51	Polypropylene in the melt state as a medium for <i>in situ</i> synthesis of copper nanoparticles. <i>AIChE Journal</i> , 2014, 60, 3406-3411.	1.8	9
52	New way to characterize the percolation threshold of polyethylene and carbon nanotube polymer composites using Fourier transform (FT) rheology. <i>Korea Australia Rheology Journal</i> , 2014, 26, 319-326.	0.7	17
53	Designing antimicrobial bioactive glass materials with embedded metal ions synthesized by the sol-gel method. <i>Materials Science and Engineering C</i> , 2013, 33, 3795-3801.	3.8	83
54	Effect of Polymer Structure and Incorporation of Nanoparticles on the Behavior of Syndiotactic Polypropylenes. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 2567-2578.	1.1	3

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55	Effect of Short-Chain Branching on the Melt Behavior of Polypropylene Under Small-Amplitude Oscillatory Shear Conditions. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 107-116.	1.1	6
56	Polyethylene and poly(ethylene-co-1-octadecene) composites with TiO ₂ based nanoparticles by metallocenic <i>in situ</i> polymerization. <i>Polymer</i> , 2013, 54, 2690-2698.	1.8	35
57	Functionalization of Silica Nanoparticles for Polypropylene Nanocomposite Applications. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-8.	1.5	41
58	Modifying the electrical behaviour of polypropylene/carbon nanotube composites by adding a second nanoparticle and by annealing processes. <i>EXPRESS Polymer Letters</i> , 2012, 6, 639-646.	1.1	40
59	Nanostructured Manganese Oxide Particles from Coordination Complex Decomposition and Their Catalytic Properties for Ethanol Oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 8087-8093.	0.9	2
60	Novel antimicrobial polyethylene composites prepared by metallocenic <i>in situ</i> polymerization with TiO ₂ based nanoparticles. <i>Journal of Polymer Science Part A</i> , 2012, 50, 4055-4062.	2.5	36
61	Electrical, Thermal, and Mechanical Characterization of Poly(propylene)/Carbon Nanotube/Clay Hybrid Composite Materials. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 474-480.	1.7	36
62	Effect of the polymer microstructure on the behavior of syndiotactic polypropylene/organophilic layered silicate composites. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2601-2609.	1.3	5
63	Polypropylene with embedded copper metal or copper oxide nanoparticles as a novel plastic antimicrobial agent. <i>Letters in Applied Microbiology</i> , 2011, 53, 50-54.	1.0	188
64	Synthetic layered and tube-like silica nanoparticles as novel supports for metallocene catalysts in ethylene polymerization. <i>Applied Catalysis A: General</i> , 2011, 407, 181-187.	2.2	14
65	Morphological changes of carbon nanotubes in polyethylene matrices under oscillatory tests as determined by dielectrical measurements. <i>Composites Science and Technology</i> , 2011, 71, 1361-1366.	3.8	11
66	Spherulite Growth Rate in Polypropylene/Silica Nanoparticle Composites: Effect of Particle Morphology and Compatibilizer. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 744-751.	1.7	25
67	Composites of polypropylene melt blended with synthesized silica nanoparticles. <i>Composites Science and Technology</i> , 2011, 71, 535-540.	3.8	69
68	Effect of the Hierarchical Structure in Poly(propylene)/Clay Composites on their Thermal Stability: From Single- to Multi-Step Degradation Processes. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 48-57.	1.7	11
69	Effect of Comonomer Content on the Behavior of Propylene Copolymer/Compatibilizer/Clay Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 492-501.	1.7	7
70	Improving the Thermal Behavior of Poly(propylene) by Addition of Spherical Silica Nanoparticles. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 899-905.	1.7	37
71	Toward Tailor-Made Biocide Materials Based on Poly(propylene)/Copper Nanoparticles. <i>Macromolecular Rapid Communications</i> , 2010, 31, 563-567.	2.0	82
72	Correlation between polyethylene topology and melt flow instabilities by determining in-situ pressure fluctuations and applying advanced data analysis. <i>Polymer</i> , 2010, 51, 522-534.	1.8	23

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73	Characterization of melt flow instabilities in polyethylene/carbon nanotube composites. <i>Polymer</i> , 2010, 51, 3753-3761.	1.8	40
74	Catalytic degradation of polyethylene using nanosized ZSM-2 zeolite. <i>Applied Catalysis A: General</i> , 2010, 384, 186-191.	2.2	22
75	In situ Pressure Fluctuations of Polymer Melt Flow Instabilities: Experimental Evidence about their Origin and Dynamics. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1799-1804.	2.0	19
76	Polypropylene/clay nanocomposites: Effect of different clays and compatibilizers on their morphology. <i>Journal of Applied Polymer Science</i> , 2009, 112, 1278-1286.	1.3	23
77	A study of the synthesis and characterization of ethylene/dicyclopentadiene copolymers using a metallocene catalyst. <i>European Polymer Journal</i> , 2009, 45, 102-106.	2.6	12
78	Effect of comonomer type on the crystallization kinetics and crystalline structure of random isotactic propylene 1-alkene copolymers. <i>Polymer</i> , 2009, 50, 832-844.	1.8	86
79	Nonisothermal crystallization and melting behavior of syndiotactic polypropylenes of different microstructure. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 798-806.	2.4	8
80	Comonomer Length Influence on the Structure and Mechanical Response of Metallocenic Polypropylenic Materials. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 2259-2267.	1.1	45
81	Decomposition of Dinuclear Manganese Complexes for the Preparation of Nanostructured Oxide Materials. <i>Inorganic Chemistry</i> , 2008, 47, 8306-8314.	1.9	19
82	Dynamic Model of the Homopolymerization of Propylene with the $\text{Me}_2\text{Si}(\text{2-Me-Ind})_2\text{ZrCl}_2$ Catalyst: The Effect of Reaction Variables. <i>Polymer-Plastics Technology and Engineering</i> , 2006, 45, 85-94.	1.9	4
83	Metallocene copolymers of propene and 1-hexene: The influence of the comonomer content and thermal history on the structure and mechanical properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1253-1267.	2.4	62
84	Dynamic Model of the Copolymerization of Propylene and 1-Hexene with the $\text{Me}_2\text{Si}(\text{2-Me-Ind})_2\text{ZrCl}_2$ Catalytic System: Effect of 1-Hexene Concentration. <i>Polymer-Plastics Technology and Engineering</i> , 2006, 45, 1233-1241.	1.9	7
85	Metallocenic Copolymers of Isotactic Propylene and 1-Octadecene: Crystalline Structure and Mechanical Behavior. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1221-1230.	1.1	63
86	Results coming from homogeneous and supported metallocene catalysts in the homo- and copolymerization of olefins. <i>Macromolecular Symposia</i> , 2002, 189, 111-126.	0.4	12