

Araceli Flores

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65

papers

1,513

citations

19

h-index

36

g-index

66

ext. papers

1,661

ext. citations

4.4

avg, IF

4.32

L-index

#	Paper	IF	Citations
65	Sequential Crystallization and Multicrystalline Morphology in PE-b-PEO-b-PCL-b-PLLA Tetrablock Quarterpolymers. <i>Macromolecules</i> , 2021 , 54, 7244-7257	5.5	2
64	Creep behaviour of elastomeric nanocomposites by flat punch indentation: Influence of graphene modification and content. <i>Composites Science and Technology</i> , 2020 , 198, 108311	8.6	0
63	Graphene and Polyethylene: A Strong Combination Towards Multifunctional Nanocomposites. <i>Polymers</i> , 2020 , 12,	4.5	9
62	Electrospinning of poly(ε-hydroxybutyrate) scaffolds: morphology and aging. <i>Emerging Materials Research</i> , 2019 , 8, 127-136	1.4	1
61	Nanoindentation mapping of multiscale composites of graphene-reinforced polypropylene and carbon fibres. <i>Composites Science and Technology</i> , 2019 , 169, 151-157	8.6	13
60	Searching for effective compatibilizing agents for the preparation of poly(ether ether ketone)/graphene nanocomposites with enhanced properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 113, 180-188	8.4	5
59	Influence of the chemical functionalization of graphene on the properties of polypropylene-based nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 100, 31-39	8.4	42
58	Control of the structure and properties of SEBS nanocomposites via chemical modification of graphene with polymer brushes. <i>European Polymer Journal</i> , 2017 , 97, 1-13	5.2	14
57	Development of Advanced Elastomeric Conductive Nanocomposites by Selective Chemical Affinity of Modified Graphene. <i>Macromolecules</i> , 2016 , 49, 4948-4956	5.5	29
56	Local mechanical properties of graphene/polyethylene-based nanocomposites by depth-sensing indentation. <i>European Polymer Journal</i> , 2016 , 74, 120-129	5.2	19
55	Mapping the Mechanical Properties of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Banded Spherulites by Nanoindentation. <i>Polymers</i> , 2016 , 8,	4.5	4
54	Nanoindentation in polymer nanocomposites. <i>Progress in Materials Science</i> , 2015 , 67, 1-94	42.2	246
53	The overlooked role of reduced graphene oxide in the reinforcement of hydrophilic polymers. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 1177-1180	7.1	13
52	Electrospun polylactic acid non-woven mats incorporating silver nanoparticles. <i>Polymer Bulletin</i> , 2014 , 71, 2437-2452	2.4	13
51	Influence of rubber on the curing kinetics of DGEBA epoxy and the effect on the morphology and hardness of the composites. <i>Polymer Bulletin</i> , 2014 , 71, 1241-1262	2.4	13
50	Depth-sensing indentation applied to polymers: A comparison between standard methods of analysis in relation to the nature of the materials. <i>European Polymer Journal</i> , 2013 , 49, 4047-4053	5.2	28
49	Evaluating the Reinforcement of Inorganic Fullerene-like Nanoparticles in Thermoplastic Matrices by Depth-Sensing Indentation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20936-20943	3.8	20

48	Dependence of conformational relaxation on nanoconfinement in semicrystalline poly(ethylene terephthalate). <i>Mechanics of Materials</i> , 2013 , 67, 119-125	3.3	
47	Nanostructure and crystallization phenomena in multilayered films of alternating iPP and PA6 semicrystalline polymers. <i>European Polymer Journal</i> , 2012 , 48, 86-96	5.2	17
46	Influence of microfillers on molecular alignment and tensile stress fracture in thermotropic liquid crystalline polymer. <i>Emerging Materials Research</i> , 2012 , 1, 146-156	1.4	3
45	Nanostructure and viscoelasticity of layered silicate nanocomposite electrolyte supports. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 944-955	2.9	6
44	Confined crystallization of nanolayered poly(ethylene terephthalate) using X-ray diffraction methods. <i>Polymer</i> , 2012 , 53, 3986-3993	3.9	13
43	Nanoindentation Assessment of the Interphase in Carbon Nanotube-Based Hierarchical Composites. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24193-24200	3.8	34
42	Non-woven Membranes Electrospun from Polylactic Acid Incorporating Silver Nanoparticles as Biocide. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1376, 78		6
41	Electrospun Nylon-Graphene Nanocomposites Synthesis and Microstructure. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1453, 7		4
40	Kinetics of crystallization of biodegradable PHA copolymers: a combined X-ray scattering and micro-indentation study. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1301, 279		6
39	A three-phase microstructural model to explain the mechanical relaxations of branched polyethylene: a DSC, WAXD and DMTA combined study. <i>Colloid and Polymer Science</i> , 2011 , 289, 257-268	2.4	17
38	Cold-drawn induced microstructure in PVC-bentonite nanocomposites. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 836-846	3.2	12
37	Recrystallization processes in cold-crystallized poly(ethylene terephthalate): Interplay between structure evolution and conformational relaxation. <i>Polymer</i> , 2011 , 52, 3155-3162	3.9	10
36	The influence of crystal formation on segmental mobility in polymers: hints from a statistical mechanical relaxation model. <i>Colloid and Polymer Science</i> , 2010 , 288, 365-376	2.4	8
35	Finite size effects in multilayered polymer systems: Development of PET lamellae under physical confinement. <i>Polymer</i> , 2010 , 51, 4530-4539	3.9	19
34	From the glassy state to ordered polymer structures: A microhardness study. <i>Polymer</i> , 2009 , 50, 729-746	3.9	102
33	Recrystallization studies on isotropic cold-crystallized PET: Influence of heating rate. <i>Polymer</i> , 2008 , 49, 965-973	3.9	18
32	The role of the amorphous phase in the re-crystallization process of cold-crystallized poly(ethylene terephthalate). <i>European Physical Journal E</i> , 2008 , 27, 365-73	1.5	16
31	Layer structure formation in oriented poly(ethylene terephthalate) relating to micromechanical properties. <i>Polymer</i> , 2007 , 48, 542-555	3.9	23

30	The unit cell expansion of branched polyethylene as detected by Raman spectroscopy: an experimental and simulation approach. <i>Journal of Materials Science</i> , 2007 , 42, 1046-1049	4.3	20
29	Confinement-induced vitrification in polyethylene terephthalate. <i>Physical Review B</i> , 2007 , 75,	3.3	9
28	Novel aspects of microindentation hardness in very low crystallinity ethylene-1-octene copolymers: A model for deformation. <i>Polymer</i> , 2006 , 47, 5602-5609	3.9	13
27	Nanostructural and electrical properties of functionally terminated self-assembled monolayers on silicon surfaces. <i>Journal of Applied Physics</i> , 2005 , 98, 054312	2.5	11
26	Structure formation in poly(ethylene terephthalate) upon annealing as revealed by microindentation hardness and X-ray scattering. <i>Polymer</i> , 2005 , 46, 9404-9410	3.9	26
25	Nanostructure and Micromechanical Properties of Silica/Silicon Oxycarbide Porous Composites. <i>Journal of the American Ceramic Society</i> , 2005 , 87, 2093-2100	3.8	15
24	Microindentation studies at the near surface of glassy polymers: Influence of molecular weight. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 1951-1956	2.9	17
23	Polymorphism of isotactic polybutene-1 as revealed by microindentation hardness. Part II: correlations to microstructure. <i>Polymer</i> , 2003 , 44, 1641-1645	3.9	72
22	Real-time WAXS study of induced orientation in a liquid crystalline polyester under the influence of a magnetic field. <i>Polymer</i> , 2003 , 44, 5909-5913	3.9	4
21	Density Fluctuations as Precursors of Crystallization in Polyamide 6,6 Using Time-Resolved X-Ray Scattering Techniques. <i>Journal of Macromolecular Science - Physics</i> , 2003 , 42, 653-661	1.4	4
20	Elastic properties of oriented polymers, blends and reinforced composites using the microindentation technique. <i>Colloid and Polymer Science</i> , 2002 , 280, 591-598	2.4	35
19	Polymorphism of Isotactic Poly(1-butene) as Revealed by Microindentation Hardness. 1. Kinetics of the Transformation. <i>Macromolecules</i> , 2002 , 35, 9069-9073	5.5	122
18	Influence of filler structure on microhardness of carbon black/polymer composites. <i>Journal of Applied Polymer Science</i> , 2001 , 79, 90-95	2.9	22
17	Creep behavior and elastic properties of annealed cold-drawn poly(ethylene terephthalate): The role of the smectic structure as a precursor of crystallization. <i>Journal of Applied Physics</i> , 2001 , 90, 6006-6010	2.5	27
16	EVIDENCE OF A TRANSCRYSTALLINE INTERPHASE IN FIBER PE HOMOCOMPOSITES AS REVEALED BY MICRODIFFRACTION EXPERIMENTS USING SYNCHROTRON RADIATION. <i>Journal of Macromolecular Science - Physics</i> , 2001 , 40, 749-761	1.4	14
15	Structural Features of Random Polyester/Amide Copolymers As Revealed by X-ray Scattering and Microindentation Hardness. <i>Macromolecules</i> , 2001 , 34, 8094-8100	5.5	16
14	NUMERICAL MODELING OF MICROHARDNESS TESTS FOR POLYMER MATERIALS*. <i>Journal of Macromolecular Science - Physics</i> , 2001 , 40, 763-774	1.4	4
13	Mechanical changes linked to embrittlement at the wear surface of polyethylene implants in hip joints. <i>Polymer</i> , 2000 , 41, 7635-7639	3.9	8

12	Crystallization kinetics of poly(ethylene naphthalene-2,6-dicarboxylate) as revealed by microhardness. <i>Polymer</i> , 2000 , 41, 7769-7772	3.9	16
11	Microhardness studies of chain-extended PE: III. Correlation with yield stress and elastic modulus. <i>Polymer</i> , 2000 , 41, 5431-5435	3.9	70
10	Elastoplastic Properties of Starch-Based Materials as Revealed by Microindentation Measurements. <i>Journal of Macromolecular Science - Physics</i> , 2000 , 39, 749-759	1.4	10
9	Crystallization of oriented amorphous poly(ethylene terephthalate) as revealed by X-ray diffraction and microhardness. <i>Polymer</i> , 1999 , 40, 6475-6484	3.9	110
8	A New Thermodynamic Approach to the Microindentation Process on Polymeric Crystals. <i>Polymer Journal</i> , 1999 , 31, 747-748	2.7	
7	Mechanical study of sintered aromatic polyesters as revealed by microindentation measurements. <i>Journal of Materials Science</i> , 1998 , 33, 3567-3571	4.3	3
6	Microhardness-structure correlation of iPP/EPR blends: influence of molecular weight and EPR particle content. <i>Colloid and Polymer Science</i> , 1998 , 276, 786-793	2.4	30
5	Numerical-experimental method for the identification of plastic properties of polymers from microhardness tests. <i>Computational Materials Science</i> , 1998 , 11, 233-244	3.2	15
4	Novel aspects of microstructure of liquid crystalline copolyesters as studied by microhardness: influence of composition and temperature. <i>Polymer</i> , 1997 , 38, 5447-5453	3.9	10
3	Microhardness of sintered poly(4-hydroxybenzoate) and poly(2-hydroxy-6-naphtoate) homopolymers: Influence of pressure and morphology. <i>Journal of Materials Science Letters</i> , 1995 , 14, 1571-1573		6
2	Detection of ferroelectric to paraelectric phase transition in copolymers of vinylidene fluoride by magnetic susceptibility. <i>Acta Polymerica</i> , 1993 , 44, 83-86		1
1	Reversible changes in the solid state of HBA/HNA liquid crystalline copolyesters studied by X-ray diffraction. <i>Polymer</i> , 1993 , 34, 2915-2920	3.9	18