

Fernando Ania

List of Publications by Year in descending order

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67
papers

1,522
citations

361413

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docs citations

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times ranked

1659
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoindentation in polymer nanocomposites. <i>Progress in Materials Science</i> , 2015, 67, 1-94.	32.8	306
2	From the glassy state to ordered polymer structures: A microhardness study. <i>Polymer</i> , 2009, 50, 729-746.	3.8	121
3	Physical ageing and glass transition in amorphous polymers as revealed by microhardness. <i>Journal of Materials Science</i> , 1989, 24, 2934-2938.	3.7	77
4	Temperature dependence of polymorphism in electrospun nanofibres of PA6 and PA6/clay nanocomposite. <i>Polymer</i> , 2007, 48, 4814-4823.	3.8	76
5	Study of oriented block copolymers films obtained by roll-casting. <i>Polymer</i> , 2002, 43, 5139-5145.	3.8	70
6	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.	7.6	57
7	Nanoindentation Assessment of the Interphase in Carbon Nanotube-Based Hierarchical Composites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 24193-24200.	3.1	40
8	SAXS study on the crystallization of PET under physical confinement in PET/PC multilayered films. <i>Polymer</i> , 2009, 50, 2680-2687.	3.8	39
9	Microhardness studies of PMMA/natural rubber blends. <i>Journal of Applied Polymer Science</i> , 2004, 91, 205-210.	2.6	37
10	Comparative study of size and distribution of lamellar thicknesses and long periods in polyethylene with a shish-kebab structure. <i>Journal of Materials Science</i> , 1996, 31, 4199-4206.	3.7	36
11	Development of Advanced Elastomeric Conductive Nanocomposites by Selective Chemical Affinity of Modified Graphene. <i>Macromolecules</i> , 2016, 49, 4948-4956.	4.8	33
12	Microhardness studies of chain-extended PE: II. Creep behaviour and temperature dependence. <i>Journal of Materials Science</i> , 2000, 35, 1315-1319.	3.7	27
13	Micromechanical properties of poly(butylene terephthalate) nanocomposites with single- and multi-walled carbon nanotubes. <i>Composite Interfaces</i> , 2006, 13, 33-45.	2.3	25
14	A USAXS study of melt processed PE with a shish-kebab structure: the influence of temperature on the long periods. <i>Polymer</i> , 1997, 38, 2027-2032.	3.8	24
15	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.	3.1	24
16	Reversible changes in the solid state of HBA/HNA liquid crystalline copolyesters studied by X-ray diffraction. <i>Polymer</i> , 1993, 34, 2915-2920.	3.8	22
17	Basic aspects of microindentation in multilayered poly(ethylene terephthalate)/polycarbonate films. <i>Philosophical Magazine</i> , 2004, 84, 1841-1852.	1.6	22
18	Microhardness of α - and β -modified isotactic polypropylene at the initial stages of plastic deformation: analysis of micromechanical processes. <i>Colloid and Polymer Science</i> , 2005, 283, 486-495.	2.1	22

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19	Local mechanical properties of graphene/polyethylene-based nanocomposites by depth-sensing indentation. <i>European Polymer Journal</i> , 2016, 74, 120-129.	5.4	22
20	Nanoindentation mapping of multiscale composites of graphene-reinforced polypropylene and carbon fibres. <i>Composites Science and Technology</i> , 2019, 169, 151-157.	7.8	22
21	Study of the multilayered nanostructure and thermal stability of PMMA/PS amorphous films. <i>Polymer</i> , 2010, 51, 1805-1811.	3.8	21
22	Simultaneous birefringence, small- and wide-angle X-ray scattering to detect precursors and characterize morphology development during flow-induced crystallization of polymers. <i>Journal of Synchrotron Radiation</i> , 2008, 15, 185-190.	2.4	20
23	Finite size effects in multilayered polymer systems: Development of PET lamellae under physical confinement. <i>Polymer</i> , 2010, 51, 4530-4539.	3.8	20
24	Nanostructure and crystallization phenomena in multilayered films of alternating iPP and PA6 semicrystalline polymers. <i>European Polymer Journal</i> , 2012, 48, 86-96.	5.4	19
25	Numerical-experimental method for the identification of plastic properties of polymers from microhardness tests. <i>Computational Materials Science</i> , 1998, 11, 233-244.	3.0	18
26	Diamagnetic susceptibility and microstructure of diamides. <i>Journal of Macromolecular Science - Physics</i> , 1979, 16, 377-388.	1.0	17
27	The production and properties of poly(aryletherketone) (PEEK) rods oriented by drawing through a conical die. <i>Polymer Engineering and Science</i> , 1985, 25, 355-361.	3.1	17
28	The overlooked role of reduced graphene oxide in the reinforcement of hydrophilic polymers. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1177-1180.	5.5	17
29	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.	5.4	17
30	Synthese und Röntgenstrukturanalyse des 8 π -Elektronenringssystems S ₄ N ₄ O ₂ Sn ₂ (CH ₃) ₆ und des magnetische Verhalten von S ₄ N ₄ O ₂ und S ₈ N ₈ O ₄ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1979, 458, 225-233.	1.2	14
31	Recent developments in the understanding of the microhardness of paraffins. <i>Journal of Materials Science Letters</i> , 1986, 5, 1183-1185.	0.5	14
32	Crystallization Kinetics and Polymorphism in Aromatic Polyketones (PEKEKK) with Different Molecular Weight. <i>Macromolecules</i> , 1998, 31, 8201-8208.	4.8	14
33	Novel aspects of microstructure of liquid crystalline copolyesters as studied by microhardness: influence of composition and temperature. <i>Polymer</i> , 1997, 38, 5447-5453.	3.8	13
34	Confined crystallization of nanolayered poly(ethylene terephthalate) using X-ray diffraction methods. <i>Polymer</i> , 2012, 53, 3986-3993.	3.8	13
35	Searching for effective compatibilizing agents for the preparation of poly(ether ether) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 107 Manufacturing, 2018, 113, 180-188.	7.6	13
36	Structure-microhardness correlation in blends of nylon 6/nylon 66 monofilaments. <i>Journal of Applied Polymer Science</i> , 2000, 77, 636-643.	2.6	12

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37	Gelatin layers for holographic purposes: an X-ray diffraction study. <i>Journal of Materials Science</i> , 1995, 30, 6145-6150.	3.7	11
38	Microhardness and water sorption in injection-molded starch. <i>Journal of Applied Polymer Science</i> , 2002, 85, 1246-1252.	2.6	10
39	Ultra-small Angle X-Ray Scattering Study of PET/PC Nanolayers and Comparison to AFM Results. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 1367-1373.	2.2	10
40	Structural assessment of liquid-crystalline side-chain poly(vinyl ether)s: dependence on terminal group, orientation and temperature. <i>Polymer</i> , 1994, 35, 4041-4047.	3.8	9
41	THE ROLE OF DOUBLE-HELIX FORMATION IN WATER DIFFUSION AND AGING OF INJECTION-MOLDED STARCH*. <i>Journal of Macromolecular Science - Physics</i> , 2001, 40, 733-747.	1.0	9
42	Structure formation and properties of biaxially oriented polyethylene films by compression of injected mouldings. <i>Polymer</i> , 1992, 33, 233-238.	3.8	8
43	Thermal reversibility of ordered, photocrosslinked liquid crystalline poly(vinyl ether)s. <i>Polymer</i> , 1996, 37, 2657-2662.	3.8	8
44	Micromechanical Behavior and Glass Transition Temperature of Poly(Methyl Methacrylate)-Rubber Blends. <i>Journal of Macromolecular Science - Physics</i> , 2004, 43, 947-961.	1.0	8
45	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.	0.5	7
46	Time resolved USAXS study of the shish-kebab structure in PE: Annealing and melt crystallization. <i>Journal of Materials Science</i> , 2000, 35, 5199-5205.	3.7	7
47	Influence of the alumina characteristics on the structure and hydrodesulfurization activity of supported Ni-Mo catalysts. <i>Applied Catalysis</i> , 1983, 8, 335-348.	0.8	6
48	Problems relating to long period determination in polyethylene shish-kebab structures. <i>Acta Polymerica</i> , 1997, 48, 36-40.	0.9	6
49	ON THE EFFECT OF REACTION CONDITIONS ON MORPHOLOGY OF AROMATIC POLY(ETHER-KETONE)S, PEKK*. <i>Journal of Macromolecular Science - Physics</i> , 2001, 40, 709-731.	1.0	6
50	Mapping the Mechanical Properties of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Banded Spherulites by Nanoindentation. <i>Polymers</i> , 2016, 8, 358.	4.5	6
51	Creep behaviour of elastomeric nanocomposites by flat punch indentation: Influence of graphene modification and content. <i>Composites Science and Technology</i> , 2020, 198, 108311.	7.8	6
52	Diamagnetic properties of polyethylene. I. Dependence of temperature and defect content. <i>Journal of Macromolecular Science - Physics</i> , 1983, 22, 451-461.	1.0	5
53	Real-time X-ray scattering study during heating of oriented injection-molded polyethylene. <i>Polymers for Advanced Technologies</i> , 1991, 2, 57-61.	3.2	5
54	Density Fluctuations as Precursors of Crystallization in a Thermoplastic Polyimide. <i>Polymer Journal</i> , 1999, 31, 735-738.	2.7	5

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55	Vickers indentation anisometry on thin cylindrical materials. Journal of Materials Science, 1982, 17, 3427-3430.	3.7	4
56	Diamagnetic susceptibility of liquid crystalline copolyesters: Study of molecular relaxation. Journal of Polymer Science, Part B: Polymer Physics, 1996, 34, 2019-2026.	2.1	4
57	Real-time WAXS study of induced orientation in a liquid crystalline polyester under the influence of a magnetic field. Polymer, 2003, 44, 5909-5913.	3.8	4
58	Density Fluctuations as Precursors of Crystallization in Polyamide 6,6 Using Time-Resolved X-Ray Scattering Techniques. Journal of Macromolecular Science - Physics, 2003, 42, 653-661.	1.0	4
59	Van der Waals networks in the compressive deformation of polyethylene. Colloid and Polymer Science, 1991, 269, 859-866.	2.1	3
60	Improvement of viscoelastic, elastic and plastic properties of Poly(L-lactide)/Graphene Oxide-Graft-Poly(L-lactide) nanocomposites by modulation of grafted chain length. Composites Science and Technology, 2020, 199, 108350.	7.8	3
61	Title is missing!. Acta Polymerica, 1993, 44, 83-86.	0.9	2
62	INFLUENCE OF HYDROLYSIS ON THE CRYSTALLIZATION OF ETHYLENE-VINYL ACETATE COPOLYMERS*. Journal of Macromolecular Science - Physics, 2001, 40, 913-922.	1.0	2
63	Diamagnetism and structure of nitric acid-treated bulk polyethylene. Polymer Bulletin, 1982, 7-7, 317.	3.3	1
64	Polymorphic Transitions in Oligo(aryl ether ketone)s Studied by Real Time X-ray Scattering. Macromolecules, 2000, 33, 514-519.	4.8	1
65	Biaxially Oriented Polyethylene Films by Compression of Injection Moldings. International Polymer Processing, 1995, 10, 221-225.	0.5	1
66	Micromechanical Mechanisms of Toughness Enhancement in Nanostructured Amorphous and Semicrystalline Polymers. , 2005, , .		0
67	Biaxially-oriented Polyethylene Films by Compression of Injected Moldings. International Polymer Processing, 1991, 6, 342-347.	0.5	0