

# Antonio MartÃ-nez Richa

## List of Publications by Year in descending order

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82  
papers

1,187  
citations

361296

20  
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477173

29  
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84  
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84  
docs citations

84  
times ranked

1353  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Polyurethane Nanocomposite Membranes Containing Cellulose Nanocrystals for Protein Separation. <i>Polymers</i> , 2022, 14, 831.	2.0	6
2	Semi-Continuous Heterophase Polymerization to Synthesize Poly(methacrylic acid)-Based Nanocomposites for Drug Delivery. <i>Polymers</i> , 2022, 14, 1195.	2.0	6
3	Synthesis of Poly(methacrylic acid-co-butyl acrylate) Grafted onto Functionalized Carbon Nanotube Nanocomposites for Drug Delivery. <i>Polymers</i> , 2021, 13, 533.	2.0	10
4	Development of novel nanocomposite polyurethane ultrafiltration membranes based on multiwalled carbon nanotubes functionalized with PAMAM dendrimer. <i>Polymer-Plastics Technology and Materials</i> , 2021, 60, 974-993.	0.6	3
5	Electrical conductivity of an all-natural and biocompatible semi-interpenetrating polymer network containing a deep eutectic solvent. <i>Green Chemistry</i> , 2020, 22, 5785-5797.	4.6	34
6	Thermolysis of 2-azido-3-(R-anilino)-1,4-naphthoquinones. Nitrene insertion versus hydrogen abstraction. <i>Tetrahedron Letters</i> , 2020, 61, 151731.	0.7	3
7	TiO <sub>2</sub> Photocatalytic Degradation of Diclofenac: Intermediates and Total Reaction Mechanism. <i>Topics in Catalysis</i> , 2020, 63, 601-615.	1.3	19
8	Monte Carlo simulation of an associating fluid model to describe polymerization in polycaprolactone diols: The role of attractive sites of variable range. <i>Journal of Molecular Liquids</i> , 2019, 294, 111587.	2.3	0
9	Homogeneous hydrogels made with acrylic acid, acrylamide and chemically functionalized carbon nanotubes. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2019, 56, 417-428.	1.2	3
10	Synthesis, characterization, and mechanical performance of various functionalized carbon nanotubes/polyurethanes nanocomposites. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47319.	1.3	5
11	Degradation under composting conditions of lysine-modified polyurethane based on PCL obtained by lipase biocatalysis. <i>Polymer Degradation and Stability</i> , 2018, 152, 139-146.	2.7	10
12	Ultrasound-assisted reaction of 1,4-naphthoquinone with anilines through an EDA complex. <i>Molecular Diversity</i> , 2018, 22, 281-290.	2.1	12
13	Preparation and characterization of nanocomposites made from chemoenzymatically prepared polyester urethanes and functionalized multiwalled carbon nanotubes. <i>Polymer Composites</i> , 2018, 39, E697.	2.3	7
14	Lysine-Modified Poly(ester-urethane) Based on Polycaprolactone for Controlled Release of Hydrocortisone. <i>ACS Symposium Series</i> , 2018, , 163-175.	0.5	3
15	Poly( $\epsilon$ -caprolactone) Diols (HOPCLOH) and Their Poly(ester-urethanes) (PEUs): The Effect of Linear Aliphatic Diols [HO(CH <sub>2</sub> ) <sub>m</sub> OH] as Initiators. <i>Polymer-Plastics Technology and Engineering</i> , 2017, 56, 889-898.	1.9	11
16	<i>Yarrowia lipolytica</i> Extracellular Lipase Lip2 as Biocatalyst for the Ring-Opening Polymerization of $\epsilon$ -Caprolactone. <i>Molecules</i> , 2017, 22, 1917.	1.7	9
17	Synthesis of Novel bis-1,5-Disubstituted-1H-Tetrazoles by an Efficient Catalyst-Free Ugi-Azide Repetitive Process. <i>Molecules</i> , 2015, 20, 1519-1526.	1.7	20
18	In Vitro Studies of Chromone-Tetrazoles against Pathogenic Protozoa, Bacteria, and Fungi. <i>Molecules</i> , 2015, 20, 12436-12449.	1.7	21

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19	Chemoenzymatic Synthesis and Characterization of Polyester-Urethanes Bearing Amino-Acids Moieties. ACS Symposium Series, 2015, , 27-40.	0.5	3
20	Characterization of chain dimensions of poly( $\mu$ -caprolactone) diols in THF by size-exclusion chromatography coupled with multi-angle light scattering (SEC-MALS). Journal of Polymer Research, 2015, 22, 1.	1.2	9
21	Star-Shaped Poly( $\epsilon$ -caprolactone)-co-poly(ethylene glycol) Synthesized with Oxalyl Chloride as Linker Molecule. Journal of Macromolecular Science - Pure and Applied Chemistry, 2014, 51, 499-510.	1.2	2
22	Synthesis, characterization and hydrolytic degradation of polyester-urethanes obtained by lipase biocatalysis. Polymer Degradation and Stability, 2014, 108, 188-194.	2.7	24
23	The Ring-Opening Polymerization of $\mu$ -Caprolactone Catalyzed by Molybdenum Trioxide: A Kinetic Approach Study Using NMR and DSC Data. Macromolecular Symposia, 2013, 325-326, 21-37.	0.4	10
24	Syntheses and Characterization of Aliphatic Polyesters via Yarrowia lipolytica Lipase Biocatalysis. ACS Symposium Series, 2013, , 59-68.	0.5	0
25	Semi-continuous Heterophase Polymerization of n-Butyl Methacrylate: Effect of Monomer Feeding Rate. Journal of Macromolecular Science - Pure and Applied Chemistry, 2012, 49, 539-546.	1.2	20
26	Determination of molecular size of O-(2-hydroxyethyl)cellulose (HEC) and its relationship to the mechanism of enzymatic hydrolysis by cellulases. Carbohydrate Polymers, 2012, 87, 2129-2136.	5.1	15
27	Synthesis of Biodegradable Polymers Using Biocatalysis with Yarrowia lipolytica Lipase. Methods in Molecular Biology, 2012, 861, 485-493.	0.4	2
28	Solid-State NMR Spectroscopy of Multiphase Polymer Systems. , 2011, , 519-549.		2
29	Hydrolytic degradation of poly( $\mu$ -caprolactone) with different end groups and poly( $\mu$ -caprolactone-co- $\beta$ -butyrolactone): characterization and kinetics of hydrocortisone delivery. Polymers for Advanced Technologies, 2011, 22, 430-436.	1.6	26
30	Narrow size-distribution poly(methyl methacrylate) nanoparticles made by semicontinuous heterophase polymerization. Journal of Applied Polymer Science, 2011, 119, 1827-1834.	1.3	28
31	Ring opening polymerization of $\mu$ -caprolactone initiated by decamolybdate anion: Determination of kinetic and thermodynamic parameters by DSC and <sup>1</sup> H-NMR. Journal of Applied Polymer Science, 2010, 115, 2288-2295.	1.3	18
32	Biopolymer Synthesis Catalyzed by Tailored Lipases. Macromolecular Symposia, 2010, 289, 135-139.	0.4	27
33	Mineralogical characterization of the fine fraction (<2 $\mu$ m) of degraded volcanic soils and tepetates in Mexico. Applied Clay Science, 2010, 49, 348-358.	2.6	11
34	Chemo-Enzymatic Syntheses of Polyester-Urethanes. ACS Symposium Series, 2010, , 227-235.	0.5	8
35	Structural and thermal characterization of hybrid materials based on TEOS and DCN. Journal of Applied Polymer Science, 2009, 111, 794-804.	1.3	0
36	Nonlinear optical characterization of ionic liquids. Proceedings of SPIE, 2009, , .	0.8	9

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37	Enzymatic ring-opening polymerization of $\epsilon$ -caprolactone by <i>Yarrowia lipolytica</i> lipase in ionic liquids. <i>Journal of Polymer Science Part A</i> , 2009, 47, 5792-5805.	2.5	31
38	Optofluidic variable focus lenses. <i>Applied Optics</i> , 2009, 48, 2308.	2.1	23
39	One-Pot Biocatalytic Synthesis of Sugar Based Poly ( $\epsilon$ -caprolactone). <i>Macromolecular Symposia</i> , 2009, 283-284, 144-151.	0.4	9
40	Enzymatic ring-opening polymerization of $\epsilon$ -caprolactone by a new lipase from <i>Yarrowia lipolytica</i> . <i>Journal of Applied Polymer Science</i> , 2008, 109, 708-719.	1.3	38
41	Physico-chemical Characterization of 4-(4-Pentyloxy)Benzonitrile. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 489, 148/[474]-155/[481].	0.4	2
42	Organic-inorganic hybrid glass: non-linear optical properties. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
43	Studies of Dihydropyridines by X-Ray Diffraction and Solid State <sup>13</sup> C NMR. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2007, 62, 549-555.	0.3	6
44	Excluded volume of hard cylinders of variable aspect ratio. <i>Molecular Simulation</i> , 2007, 33, 505-515.	0.9	21
45	Self-diffracting effects in hybrid materials. <i>Applied Physics Letters</i> , 2007, 90, 091112.	1.5	17
46	Ring-opening polymerization of $\epsilon$ -caprolactone initiated with different ruthenium derivatives: Kinetics and mechanism studies. <i>Journal of Polymer Science Part A</i> , 2006, 44, 6926-6942.	2.5	25
47	A novel route to $\epsilon$ -telechelic poly( $\epsilon$ -caprolactone) diols, precursors of biodegradable polyurethanes, using catalysis by decamolybdate anion. <i>Polymer</i> , 2006, 47, 8420-8429.	1.8	33
48	Silicon-29 and carbon-13 nuclear magnetic resonance identification of intermediates developed during the formation of a hybrid based on tetraethoxysilane (TEOS) and 4-[(5-dichloromethyl)(silyl)pentyl]oxy]cyanobenzene (DCN). <i>Journal of Applied Polymer Science</i> , 2006, 99, 520-531.	1.3	2
49	Synthesis and characterization of a poly(ether-ester) copolymer from poly(2,6 dimethyl-1,4-phenylene) Tj ETQq1 1 0.784314 2gBT /Ov	1.3	2
50	Ring-opening polymerization of lactones using RuCl <sub>2</sub> (PPh <sub>3</sub> ) <sub>3</sub> as initiator: Effect of hydroxylic transfer agents. <i>Journal of Applied Polymer Science</i> , 2006, 99, 2737-2745.	1.3	6
51	Derivation by Electronic Structure Calculations of the Aspect Ratios (Length/Diameter) for Homologous Series of Calamitic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 446, 245-254.	0.4	6
52	Theoretical study of the experimental behavior of two homologous series of liquid crystals. <i>Arkivoc</i> , 2006, 2003, 149-162.	0.3	4
53	Synthesis And Characterization Of A New Family Of Hybrid Organic-Inorganic Glasses. <i>Materials Research Innovations</i> , 2005, 9, 72-73.	1.0	0
54	Quantitative structure-property relationships to estimate nematic transition temperatures in thermotropic liquid crystals. <i>Computational and Theoretical Chemistry</i> , 2005, 727, 63-69.	1.5	24

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55	Synthesis and characterization of poly( $\epsilon$ -caprolactone) and copolyesters by catalysis with molybdenum compounds: polymers with acid-functional asymmetric telechelic architecture. <i>Polymer</i> , 2005, 46, 12118-12129.	1.8	20
56	Properties of poly(ethylene terephthalate)-poly(ethylene naphthalene 2,6-dicarboxylate) blends with montmorillonite clay. <i>Polymer International</i> , 2005, 54, 1669-1672.	1.6	14
57	Properties of PET-PEN Blends Produced by Extrusion and Injection Blow-Molding. <i>Journal of Polymer Engineering</i> , 2005, 25, .	0.6	6
58	One-Step Route to $\epsilon$ -Hydroxyl- $\omega$ -(carboxylic acid) Polylactones Using Catalysis by Decamolybdate Anion. <i>Macromolecules</i> , 2005, 38, 1599-1608.	2.2	46
59	Assignment of vibrational spectra of labdatriene derivatives and ambers: A combined experimental and density functional theoretical study. <i>Arkivoc</i> , 2005, 2005, 449-458.	0.3	20
60	Segmented block copolymers of poly(ethylene glycol) and poly(ethylene terephthalate). <i>Journal of Polymer Science Part A</i> , 2004, 42, 4448-4457.	2.5	12
61	Comparative study of bone cements prepared with either HA or $\epsilon$ -TCP and functionalized methacrylates. <i>Journal of Biomedical Materials Research</i> , 2003, 64B, 27-37.		40
62	Ring-opening polymerization of lactones catalyzed by decamolybdate anion. <i>Polymer</i> , 2003, 44, 6767-6772.	1.8	42
63	Carbon-13 CP-MAS nuclear magnetic resonance studies of teas. <i>Solid State Nuclear Magnetic Resonance</i> , 2003, 23, 119-135.	1.5	23
64	On the structure and physicochemical properties of acrylic compounds. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2003, 52, 85-95.	1.8	7
65	Properties of THFMA-PEMA and BMA-PEMA-based bone cements characterized by thermal analysis, FTIR and NMR. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2003, 1, 108-16.	0.4	0
66	Predicting the Phase Diagram of a Liquid Crystal Using the Convex Peg Model and the Semiempirical PM3 Method. <i>Journal of Physical Chemistry A</i> , 2002, 106, 10342-10349.	1.1	21
67	Quadrupolar moment calculations and mesomorphic character of model dimeric liquid crystals. <i>Computational Materials Science</i> , 2001, 22, 300-308.	1.4	14
68	Characterization of bone cements prepared with functionalized methacrylates and hydroxyapatite. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2001, 12, 893-910.	1.9	37
69	A solid-state $^{13}\text{C}$ NMR analysis of ambers. <i>Polymer</i> , 2000, 41, 743-750.	1.8	40
70	Ab initio study of the reactivity and plausible polymerization process of a labdatriene monomer. <i>Computational and Theoretical Polymer Science</i> , 2000, 10, 473-480.	1.1	2
71	Effects of molecular geometry on liquid crystalline phase behaviour: isotropic-nematic transition. <i>Molecular Physics</i> , 2000, 98, 179-192.	0.8	21
72	Application of and magic angle spinning nuclear magnetic resonance to studies of the building materials of historical monuments. <i>Solid State Nuclear Magnetic Resonance</i> , 1999, 13, 263-269.	1.5	18

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73	Characterization of acrylic dental polymers. <i>Macromolecular Symposia</i> , 1999, 148, 463-481.	0.4	5
74	A solid-state NMR study of aromatic polyimides based on 4,4'-diaminotriphenylmethane. <i>Journal of Applied Polymer Science</i> , 1998, 70, 1053-1064.	1.3	9
75	Variation of intrinsic viscosity in the hydrolysis of hydroxyethylcellulose, and its relationship with resistance to enzymatic degradation. <i>Polymer</i> , 1998, 39, 3115-3118.	1.8	12
76	Spontaneous cyclodehydration of N-(o-aminophenyl) amic acids. <i>Journal of Applied Polymer Science</i> , 1998, 67, 609-619.	1.3	8
77	Keto-Enol Tautomerism of Dimedone Studied by Dynamic NMR. <i>Applied Spectroscopy</i> , 1996, 50, 1408-1412.	1.2	15
78	One-step synthesis of aromatic polyimides based on 4,4'-diaminotriphenylmethane. <i>Journal of Applied Polymer Science</i> , 1996, 61, 815-818.	1.3	10
79	Studies on enzymatic resistance and molecular structure by <sup>13</sup> C-NMR of cellulosic ethers. <i>Journal of Applied Polymer Science</i> , 1992, 44, 347-352.	1.3	7
80	Use of 4-biphenylmethanol, 4-biphenylacetic acid and 4-biphenylcarboxylic acid/triphenylmethane as indicators in the titration of lithium alkyls. Study of the dianion of 4-biphenylmethanol. <i>Journal of Organic Chemistry</i> , 1983, 48, 2603-2606.	1.7	83
81	Determination of Phase Content in Multiphase Polymers by Solid-State NMR Techniques. <i>Materials Science Forum</i> , 0, 714, 51-56.	0.3	5
82	Developments in Solid-State NMR Spectroscopy of Polymer Systems. , 0, , .		5