# Short Curriculum Vitae José Miguel Martín-Martínez

## **Personal information**

**SURNAME: MARTIN-MARTINEZ** 

**NAME:** JOSÉ MIGUEL

**DATE OF BIRTH:** 3<sup>rd</sup> April 1956

**Professional address:** Adhesion and Adhesives Laboratory

Department of Inorganic Chemistry

University of Alicante 03080 Alicante – Spain

**Phone no.** +34 96 590 3977; +34 607987091

e-mail: jm.martin@ua.es

# **Education and training**

**Graduated in Chemistry -** University of Granada (Spain) - 13th December 1978 – Score : A -1<sup>st</sup> qualified student – Graduated with high honor diploma

**PhD in Sciences -** University of Granada (Spain) - 17th October 1981 – Score : A – High honor diploma (Best PhD doctoral thesis in 1981 at the University of Granada)

**PhD in Medicine** – Catholic University of Valencia "San Vicente Mártir" (Spain) – 18th July 2013 – Score : A – Cum laude

# Scientific and professional career

DATES	CATEGORY	INSTITUTION	
4070/4004	Assistant Bushasan	Haber of One and a	
1978/1981	Assistant Professor	Univ. of Granada	
1981/1982	Interim Associate Professor	Univ. of Alicante	
1982/1984	Contractual Assoc Professor	Univ. of Alicante	
1983	Postdoctoral	Centre de Recherche de	
		Microcalorimetrie et	
		Thermochimie. CNRS.	
		Marseille, France	
1984/1993	Associate Professor	Univ. of Alicante	
1986-1987	Contracted Researcher	Dep. Chem Engineering.	
		Penn State. University	
		Park, PA, USA.	
1990	Postdoctoral Researcher	Lab. voor Chemische	
		Technologie. Universiteit	
		Amsterdam. Holland.	
1993- date	Full Professor	Univ. of Alicante	
1995	Invited Professor	Dep. Chemistry. Virginia	
		Tech. Blackburg, VA,	
		USA	
1996/1997	Director of the Secretariat of	Univ. of Alicante	
	Internal Affairs		
1999-2004.	Director of new Campus Elda	Univ. of Alicante	
	– Petrer		
2005-2006	National expert - G3 unit	European Commission.	

(Materials) - Directorate Brussels Research

1990 - Head and founder of the Adhesion and Adhesives Laboratory of the University of Alicante.

6 awarded Sexenios de Investigación.

1 awarded Sexenio de Transferencia.

#### **Language competences**

Mother tongue(s): Spanish

Other language(s)

LANGUAGE	SPEAKING	READING	WRITING
FRENCH	Correct	Correct	Good
ENGLISH	Correct	Correct	Correct
GERMAN	Basic	Basic	Basic

## Working experience

Fields of expertise: Adhesion; rubber adhesives; surface treatment; rubber bonding; polyurethane adhesives, sealants and coatings; nanocomposites; inorganic-organic hybrid materials; synthesis, formulation and characterization of hot melts, reactive and liquid adhesives; bioadhesives; natural adhesives; polymer/adhesive interfaces; filler-polymer interactions; thermoset coatings; smart materials; self-healing; biomaterials; natural-based composites; cork.

Advisor of 175 Research projects, 49 PhD thesis and 54 Master degrees.

Publications: 56 books and book chapters, 275 indexed papers, 77 non-indexed papers, 355 abstracts at international conferences, and 34 patents.

# **Additional achievements**

#### Advisory Editorial Board and Editor in journals

Member of the International Advisory Editorial Board of "International Journal of Adhesion and Adhesives". July 1992-date.

Member of the International Advisory Editorial Board of "Journal of Adhesion Science and Technology". January 1993–June 2008.

Member of the International Advisory Editorial Board of "The Journal of Adhesion". January, 1995-July 2008.

Member of the International Advisory Editorial Board of "Mediterranean Journal of Chemistry". April 2011-date.

Member of the International Advisory Editorial Board of "Rubber Chemistry and Technology". January, 2003-December 2009.

Member of the International Advisory Editorial Board of "Recent Patents on Engineering". July, 2006-December, 2018.

Co-editor of the "Journal of Adhesion Science and Technology". July, 2008-date.

Associate editor of "Rubber Chemistry and Technology". January, 2010-date.

Editor-in-Chief of the "Journal of Adhesion Science and Technology". January 2013-date

Member of the International Advisory Editorial Board of "Polymers" journal. November 2018-date.

Member of the International Advisory Editorial Board of "Materials" journal. December 2018date.

#### **Awards**

First Prize of the Adhesives Session in EUROCOAT'98 (Barcelona). 1998.

Special Prize ASEFAPI in EUROCOAT 2002 (Barcelona). 2002.

Recognition of the CYTED's general Assembly for the achievements reached as International Coordinator of the Network VIII.D. 26 June, 2003.

ACS silver key tag. Recognition for 10 years of service in the American Chemical Society. September, 2004.

Prize to best Poster of ACE-X 2008 (Barcelona, Spain). July 2008.

First price SIKA for the best oral communication of IX Spanish Congress on Adhesives. (Valladolid) 2008.

Robert L. Patrick Fellowship awarded by the American Adhesion Society. 2013.

Prize to best Poster of 12th FELASA SECAL Congress. Barcelona. June 2013.

Award IMPORTANT PERSON of November 2013. Información newspaper. Alicante. January 2014.

Diploma of Society of Orthoepoedic and Traumatology of Oltenia (Romania). October 2014.

First prize IMPULSO for Novel Research Ideas. Category A. June 2016.

Prize of Novel Enterprise Ideas. FUNDEUN (Alicante). June 2017.

Anniversary Award SBR-16 – "For scientific contribution into the field of biomaterials and SBR promotion at international level". BiomMedD'2018. Cluj. September 2018. SBR Excellence Award – "For relevant contribution into the field of biomaterials, tissue engineering and medical devices". BiomMedD'2018. Cluj. September 2018.

Best paper Award – CASE : Adhesives & Elastomers – 2019 Polyurethanes Technical Conference – Orlando, Florida, USA. October 2019

# Participation in committees and international organizations

President (2002-2009) and founder of the Spanish Technical Adhesives Society.

Member at large of the American Adhesion Society (2006-2007).

Secretary of the American PSA division of the Adhesion Society (2005-2006).

Vicepresident of American PSA division of the Adhesion Society (2006-2007).

President of the American PSA division of the Adhesion Society (2008-2009).

Member of the Steering Committees of RENAC network on Nanotechnology (2001-2012).

Member of the Steering Committee of EURADH (European Adhesion Society) (2010-date).

Member of the Steering Committee of EUROFILLERS. Appointment: 2003-date.

President of the Spanish Adhesion Society (2010-date).

Spanish representative (MC Member) of COST MP1101 "Biomedical Applications of Atmospheric Pressure Plasma Technology". European Science Foundation, Brussels (Belgium) (2011-2015).

Member by invitation of COST TD0906 "Biological Adhesives. From Biology to Biomimetics". European Science Foundation, Brussels (Belgium). 2012.

Member of the Research group "Health and Longevity". Catholic University of Murcia. Spain. 2015-date.

Spanish representative (MC Member) of COST CA15216 "European Network of Bioadhesion Expertise: Fundamental Knowledge to Inspire Advanced Bonding Technologies". The COST Association, Brussels (Belgium) (2016-date).

#### Scientific organizations and Societies

Member of Spanish Royal Society of Chemistry. Member no. 16527. Appointment: January 1984.

Member of American Adhesion Society. Appointment: February 1991.

Member of the Materials Institute of the Royal Chemical Society of U.K. January 1991-December 2005.

Member of French Society of Adhesion (SFA). Paris. France. Appointment: November 1996.

Member of IACIS (International Association of Colloid, Interfaces and Surfaces). Appointment: June 1993.

Member of the Working Group on Adhesives for Leather and Footwear - CEN/TC 193 Committee. Appointment: January 1998-December 2009.

Member of American Chemical Society. Appointment: June 1995.

Member of The Society of Rheology. Appointment: February 1996.

Member of working group of Sealants for joints in the building construction of CEN/TC 349 Committee. Appointment: November 2004.

#### Some selected publications (2010-2021)

- 1- V. García-Pacios, V. Costa, M. Colera, J. M. Martín-Martínez. "Affect of polydispersity on the properties of waterborne polyurethane dispersions based on polycarbonate polyol". International Journal of Adhesion and Adhesives **30**, 456-465 (2010).
- 2- C. García-Martín, V. Andreu-Gómez, J. M. Martín-Martínez. "Surface modification of vulcanized styrene-butadiene rubber with trichloroisocyanuric acid solutions of different active chlorine contents". International Journal of Adhesion and Adhesives 30, 550-558 (2010).
- 3- L. Musante, P. Vázquez, R. Torregrosa-Maciá, J. M. Martín-Martínez. "Synthesis and characterization of new organic-inorganic hybrid nanosilica fillers prepared by sol-gel reaction". Composite Interfaces **17**, 467-479 (2010).
- 4- V. Pascual-Sánchez, S. Barrientos-Ramirez, J. M. Martín-Martínez. "Comparative study of the effect of the addition of silica and silicate nanofillers on the properties of epoxy coatings". Composite Interfaces **17**, 517-532 (2010).
- 5- R. Torregrosa-Coque, S. Alvarez-García, J. M. Martín-Martínez. "Effect of temperature on the extent of migration of low molecular weight moieties to rubber surface". International Journal of Adhesion and Adhesives **31**, 21-28 (2011).
- 6- M.A. Bahattab, J. Donate-Robles, V. García-Pacios, J. M. Martín-Martínez. "Characterization of polyurethane adhesives containing nanosilicas of different particle size". International Journal of Adhesion and Adhesives **31**, 97-103 (2011).
- 7- V. Morote-Martínez, R. Torregrosa-Coque, J. M. Martín-Martínez. "Addition of unmodified nanoclay to improve the performance of unsaturated polyester resin coating on natural stone". International Journal of Adhesion and Adhesives **31**, 154-163 (2011).
- 8- V. García-Pacios, M. Colera, V. Costa, J. M. Martín-Martínez. "Waterborne polyurethane dispersions obtained with polycarbonate of hexanediol intended for use as coatings". Progress in Organic Coatings **71**, 136-146 (2011).
- 9- J. Donate-Robles, J. M. Martín-Martínez. "Comparative properties of thermoplastic polyurethane adhesive filled with natural or precipitated calcium carbonate". Macromolecular Symposia 301, 63-72 (2011).
- 10- A. Elia, P. Martín-Aispuro, N. Quaranta, J. M. Martín-Martínez, P. Vázquez. "Synthesis and characterization of new silica-titania mixed oxides obtained by sol-gel technique". Macromolecular Symposia 301, 136-145 (2011).

- 11- R. Torregrosa-Coque, S. Alvarez-García, J. M. Martín-Martínez. "Migration of low molecular weight moiety at rubber-polyurethane interface: An ATR-IR study". International Journal of Adhesion and Adhesives **31**, 389-397 (2011).
- 12- V. García-Pacios, Y. Iwata, M. Colera, J. M. Martín-Martínez. "Influence of the solids content on the properties of waterborne polyurethane dispersions obtained with polycarbonate of hexanediol". International Journal of Adhesion and Adhesives 31, 789-794 (2011).
- 13- J. Donate-Robles, J. M. Martín-Martínez. "Addition of precipitated calcium carbonate filler to thermoplastic polyurethane adhesives". International Journal of Adhesion and Adhesives **31**, 795-804 (2011).
- 14- R. Torregrosa-Coque, J. M. Martín-Martínez. "Influence of the configuration of the plasma chamber on the surface modification of synthetic vulcanized rubber treated with low-pressure oxygen RF plasma". Plasma Processes and Polymers 8, 1080-1092 (2011).
- 15- M.A. Bahattab, V. García-Pacios, J. Donate-Robles, J. M. Martín-Martínez. "Comparative properties of hydrophilic and hydrophobic fumed silica filled two-component polyurethane adhesives". Journal of Adhesion Science and Technology **26**, 303-315 (2012).
- 16- R. Torregrosa-Coque, S. Alvarez-García, J. M. Martín-Martínez. "Migration of paraffin wax to sulphur vulcanized styrene-butadiene rubber (SBR) surface: Effect of temperature". Journal of Adhesion Science and Technology 26, 813-826 (2012).
- 17- R.A. Arreche, M.N. Blanco, J. M. Martín-Martínez, P.G. Vázquez. "Structural synthesis of hydrophilic and hydrophobic silica for its use in food packaging films". Procedia-Materials Science 1, 572-579 (2012).
- 18- M.S. Lassa, P.G. Vázquez, D.G. Lamas, J. M. Martín-Martínez, G.E. Lascalea. "Morphology and structure of zirconia-ceria based nanopowders synthesised by nitrates-EDTA and nitrates-TRIS gel-combustion routes". Procedia-Materials Science 1, 601-607 (2012).
- 19- S. Retmaier, U. Wolfram, A. Ignatius, H-J Wilke, A. Gloria, J. M. Martín-Martínez, J. Silva-Correia, J.M. Oliveira, R.L. Reis, H. Schmidt. "Hydrogels for nucleus replacement Facing the biomechanical challenge". Journal of the Mechanical Behavior of Biomedical Materials 14, 67-77 (2012).
- 20- J.M. Lloris, J.M. Martín, D. Cejalvo, A. Villarreal, M. Martínez, A.H. Toledo. "Adhesives in surgery". Journal of Investigative Surgery 26, 55 (2013).
- 21- J. M. Martín-Martínez. "JAST: Bonding tradition to innovation". Journal of Adhesion Science and Technology 27 (1), 1-2 (2013).
- 22- P. Carbonell-Blasco, J. M. Martín-Martínez, I.V. Antoniac. "Synthesis and characterization of polyurethane sealants containing rosin intended for sealing defect in annulus for disc regeneration". International Journal of Adhesion and Adhesives 42, 11-20 (2013).
- 23- J.A. Jofre-Reche, J. M. Martín-Martínez. "Selective surface oxidation of ethylene-vinyl acetate and ethylene polymer blend by UV-ozone treatment". International Journal of Adhesion and Adhesives 43, 42-53 (2013).

- 24- V. García-Pacios, J.A. Jofre-Reche, V. Costa, M. Colera, J. M. Martín-Martínez. "Coatings prepared from waterborne polyurethane dispersions obtained with polycarbonates of 1,6 hexanediol of different molecular weights". Progress in Organic Coatings 76, 1484-1493 (2013).
- 25- V. García-Pacios, M. Colera, Y. Iwata, J. M. Martín-Martínez. "Incidence of the polyol nature in waterborne polyurethane dispersions on their performance as coatings on stainless steel". Progress in Organic Coatings 76, 1726-1729 (2013).
- 26- B. Strzemiecka, A. Voelkel, J. Donate-Robles, J. M. Martín-Martínez. "Estimation of polyurethane-carbon black interactions by means of inverse gas chromatography". Journal of Chromatography A 1314, 249-254 (2013).
- 27- J. Donate-Robles, C.M. Liauw, J. M. Martín-Martínez. "Flow microcalorimetry and diffuse reflectance Fourier transform infrared spectroscopy studies in filled polyurethane adhesives by using dimethyl adipate as model compound". International Journal of Adhesion and Adhesives 48, 43-50 (2014).
- 28- P. Carbonell-Blasco, I.V. Antoniac, J. M. Martín-Martínez. "New polyurethane sealants containing rosin for non-invasive disc regeneration surgery". Key Engineering Materials 583, 67-79 (2014).
- 29- A. Martín-Ballester, D. García-Cerdá, B. Prieto-Moure, J. M. Martín-Martínez. J.M. Lloris-Carsí. "Use of cyanoacrylate adhesives in dermal lesions: A review". Journal of Adhesion Science and Technology 28, 573-597 (2014).
- 30- B. Strzemiecka, A. Voelkel, J. Donate-Robles, J. M. Martín-Martínez. "Assessment of the surface chemistry of carbon blacks by TGA-MS, XPS and inverse gas chromatography using statistical chemometric analysis". Applied Surface Science 316, 315-323 (2014).
- 31- M. A. Moyano, J. M. Martín-Martínez. "Surface treatment with UV-ozone to improve adhesion of vulcanized rubber formulated with an excess of processing oil". International Journal of Adhesion & Adhesives 55, 106-113 (2014).
- 32- J. Donate-Robles, Ch. M. Liauw, J. M. Martín-Martínez. "Flow micro-calorimetry and FTIR spectroscopy study of interfacial interactions in uncoated and coated calcium carbonate filled polyurethane adhesives". Macromolecular Symposia 338, 72-80 (2014).
- 33- R. Arreche, M. Blanco, J. M. Martín-Martínez, P. Vázquez. "New silica fillers for polymers in food packaging". Macromolecular Symposia 338, 81-89 (2014).
- 34- C. Alia, J.A. Jofre, J.C. Suárez, J.M. Arenas, J. M. Martín-Martínez. "Influence of the post-curing temperature on the structure, properties and adhesion of vinyl ester adhesive". Journal of Adhesion Science and Technology 29(6), 518-531 (2015).
- 35- M.D. Landete-Ruiz, J. M. Martín-Martínez. "Improvement of adhesion and paint ability of EVA copolymers with different vinyl acetate contents by treatment with UV-ozone". International Journal of Adhesion and Adhesives 58, 34-43 (2015).
- 36- A.M. Villarreal-Gómez, M. Martínez-Paíno, J.M. Martín-Martínez. "New flexible cyanoacrylate tissue adhesive Adhflex®: Adhesion and performance in inguinal hernia repair". Key Engineering Materials 638, 73-78 (2015).

- 37- M.I. Butrón-García, J.A. Jofre-Reche, J. M. Martín-Martínez. "Use of statistical design of experiments in the optimization of Ar-O2 low-pressure plasma treatment conditions of polydimethylsiloxane (PDMS) for increasing polarity and adhesion, and inhibiting hydrophobic recovery". Applied Surface Science 332, 1-11 (2015).
- 38- G. Estan-Cerezo, J. M. Martín-Martínez. "Thermal, viscoelastic and adhesion properties of EVA (ethylene-covinyl acetate) hot melts containing polypropylene waxes of different nature". Journal of Adhesion Science and Technology 29(9), 875-889 (2015).
- 39- S. Alvarez-García, J. M. Martín-Martínez. "Effect of the carbon black content on the thermal, rheological and mechanical properties of thermoplastic polyurethanes". Journal of Adhesion Science and Technology 29(11), 1136-1154 (2015).
- 40- B. Cantos-Delegido, J. M. Martín-Martínez. "Treatment with Ar-O2 low-pressure plasma of vulcanized rubber sole containing noticeable amount of processing oils for improving adhesion to upper in shoe industry". Journal of Adhesion Science and Technology 29(13), 1301-1314 (2015).
- 41- J. A. Jofre-Reche, V. García-Pacios, V. Costa, M. Colera, J. M. Martín-Martínez. "Role of the interactions between carbonate groups on the phase separation and properties of waterborne polyurethane dispersions prepared with copolymers of polycarbonate diol". Progress in Organic Coatings 88, 199-211 (2015).
- 42- M. A. Moyano, R. Paris, J. M. Martín-Martínez. "Changes in compatility, tack and viscoelastic properties of ethylene n-butyl acrylate (EBA) copolymer-pentaerythritol rosin ester blend by adding microcrystalline wax, Fischer-Tropsch wax and mixture of waxes". International Journal of Adhesion and Adhesives 65, 47-53 (2016).
- 43- A. Angulo, I. Sebastián, R. Torregrosa, J.M. Martín-Martínez, A.M. Madariaga. "Comparative effectiveness of cyanoacrylate bioadhesives and monofilamen suture in wounds healing: A histopatologycal and physicochemical study in New Zwalad White rabbits". Journal of Cytology & Histology 7(1), 1000395 (2016).
- 44- J.A. Jofre-Reche, J. Pulpytel, H. Fakhouri, F. Arefi-Khonsari, J.M. Martín-Martínez. "Surface treatment of polydimethylsiloxane (PDMS) with atmospheric pressure rotating plasma jet. Modeling and optimization of the surface treatment conditions". Plasma Processes and Polymers 13, 459-469 (2016).
- 45- W. Dehas, M. Guessoum, A. Douibi, J.A. Jofre-Reche, J.M. Martín-Martínez. "Thermal, mechanical, and viscoelastic properties of recycled poly(ethylene terephthalate) fiber-reinforced unsaturated polyester composites". Polymer Composites doi: 10.1002/pc.24119 (2016).
- 46- J.A. Jofre-Reche, J. Pulpytel, F. Arefi-Khonsari, J.M. Martín-Martínez. "Increased adhesion of polydimethylsiloxane (PDMS) to acrylic adhesive tape for medical use by surface treatment with an atmospheric pressure rotating plasma jet". Journal of Physics D: Appl. Phys. 49 doi:10.1088/0022-3727/49/33/334001 (2016).
- 47- J. Lasprilla-Botero, M. Alvarez-Lainez, D.A. Acosta, J.M. Martín-Martínez. "Water-based adhesive formulations for rubber to metal bonding developed by statistical design of experiments". International Journal of Adhesion and Adhesives 73, 58-65 (2017).

- 48- G. Estan-Cerezo, D.A. Alonso, J.M. Martín-Martínez. "Reactivity of novel ethyl cyanoacrylate and 6-hydroxyhexyl acrylate adhesive mixtures and their influence on adhesion and thermal stability". European Polymer Journal 88, 75-92 (2017).
- 49- A.J. Yañez-Pacios, J.M. Martín-Martínez. "Surface modification and improved adhesión of wood-plastic composites (WPCs) made with different polymers by treatment with atmospheric pressure rotating plasma jet". International Journal of Adhesion and Adhesives 77, 204-213 (2017).
- 50- J.A. Jofre-Reche, M. Fuensanta, A.J. Yañez-Pacios, M. Colera, F. Rodríguez, I. Iglesias, V. Costa, J.M. Martín-Martínez. "Improvement in adhesion, abrasion resistance, and aging of polyurethane coatings prepared with polycarbonate diol for internal pipelines". Journal of Materials in Civil Engineering 29(10), 06017009 (2017).
- 51- M. Fuensanta, J.A. Jofre-Reche, F. Rodríguez-Llansola, V. Costa, J.I. Iglesias, J.M. Martín-Martínez. "Structural characterization of polyurethane ureas and waterborne polyurethane urea dispersions made with mixtures of polyester polyol and polycarbonate diol". Progress in Organic Coatings 112, 141-152 (2017).
- 52- M. A. Moyano, R. Paris, J.M. Martín-Martínez. "Assessment of the compatibility in hot melts by using different thermoanalytical methods. Ethylene/n-butyl acrylate (EBA) hot melts containing tackifiers of different nature". J Therm Anal Calorim. 129, 1495–1503 (2017).
- 53- J.A. Jofre-Reche, C. Alia-García, J.C. Súarez-Bermejo, J.M. Arenas-Reina, J.M. Martín-Martínez. "Effect of adding different amounts of graphite nanoplatelets on structural, thermal, mechanical and viscoelastic properties of vinylester based composites cured at 25 °C". Polymer Composites, E1382-E1390 (2018).
- 54- A.J. Yáñez-Pacios, J.M. Martín-Martínez. "Surface modification and adhesion of wood-plastic composite (WPC) treated with UV/ozone". Composites Interfaces 25(2), 127-149 (2018).
- 55- G.A. Alvarez, M. Fuensanta, V.H. Orozco, L.F. Giraldo, J.M. Martín-Martínez. "Hybrid waterborne polyurethane/acrylate dispersion synthesized with bisphenol A-glicidylmethacrylate (Bis-GMA) grafting agent". Progress in Organic Coatings 118, 30-39 (2018).
- 56- M. Fuensanta, J.M. Martín-Martínez. "Thermoplastic polyurethane coatings made with mixtures of polyethers of different molecular weights with pressure sensitive adhesion property". Progress in Organic Coatings 118, 148-156 (2018).
- 57- C. Alia, J.A. Jofre-Reche, J.C. Súarez, J.M. Arenas, J.M. Martín-Martínez. "Characterization of the chemical structure of vinyl ester resin in a climate chamber under different conditions of degradation". Polymer Degradation and Stability 153, 88-99 (2018).
- 58- A. de Lucas-Freile, S. Sancho-Querol, A.J. Yáñez-Pacios, L. Marín-Perales, J.M. Martín-Martínez. "Blends of ethylene-co-vinyl acetate and poly(3-hydroxybutyrate) with adhesion property". eXPRESS Polymer Letters 12(7), 600-615 (2018).
- 59- M. Fuensanta, J.A. Jofre-Reche, F. Rodríguez-Llansola, V. Costa, J.M. Martín-Martínez. "Structure and adhesion properties before and after hydrolytic ageing of polyurethane urea adhesives made with mixtures of waterborne polyurethane dispersions". International Journal of Adhesion and Adhesives 85, 165-176 (2018).

- 60- A.J. Yáñez-Pacios, J.M. Martín-Martínez. "Comparative adhesion, ageing resistance, and surface properties of wood plastic composite treated with low pressure plasma and atmospheric pressure plasma jet". Polymers 10, 643 pp 1 to 21 (2018).
- 61- A.J. Yáñez-Pacios, J.M. Martín-Martínez. "Improved surface and adhesion properties of wood-polyethylene composite by treatment with argon-oxygen low pressure plasma". Plasma Chemistry and Plasma Process 38, 871-886 (2018).
- 62- A.J. Yáñez-Pacios, J.M. Martín-Martínez. "Comparative surface and adhesion properties of mechanical abrasion, flame and radiation-based surface treated wood plastic composites made with different polymers". Surface Topography: Metrology and Properties 6, 034020 pp 1 to 13 (2018).
- 63- S. Sancho-Querol, A.J. Yáñez-Pacios, J.M. Martín-Martínez. "New binary blends of ethylene-co-n-butyl acrylate (EBA) copolymer and low molecular weight rosin ester resin with potential as pressure sensitive adhesives". Materials 11, 2037 doi:10.3390/ma11102037 (2018).
- 64- M.A. Moyano, R. Paris, J.M. Martín-Martínez. "Viscoelastic and adhesion properties of hot melts made with blends of ethylene-co-n-butyl acrylate (EBA) and ethylene-co-vinyl acetate (EVA) copolymers". International Journal of Adhesion and Adhesives 88, 34-42 (2019).
- 65- M. Fuensanta, J.M. Martín-Martínez. "Thermoplastic polyurethane pressure sensitive adhesives made with mixtures of polypropylene glycols of different molecular weights". International Journal of Adhesion and Adhesives 88, 81-90 (2019).
- 66- G. Estan-Cerezo, D. A. Alonso, J.M. Martín-Martínez. "Structural and adhesion properties of poly(ethyl 2-cyanoacrylate) post-cured at different temperatures and times". Journal of Adhesion Science and Technology 33(4), 329-345 (2019).
- 67- N. V. Perepelkin, J.M. Martín-Martínez, A. E. Kovalev, F. M. Borodich, S. N. Gorb. "Experimental testing of self-healing ability of soft polymer materials". Meccanica. doi.org/10.1007/s11012-019-00965-w (14th March 2019).
- 68- H. Hamadache, H. Djidjelli, A. Boukerrou, M. Kaci, J. A. Jofre-Reche, J.M. Martín-Martínez. "Different compatibility approaches to improve the thermal and mechanical properties of EVA/starch composites". Polymer Composites 40(8), 3242-3253 (2019).
- 69- M. Fuensanta, M.A. Vallino-Moyano, J.M. Martín-Martínez. "Balanced viscoelastic properties of pressure sensitive adhesives made with thermoplastic polyurethanes blends". Polymers 11, 1608 (2019).
- 70- M. Fuensanta, A. Khoshnood, F. Rodríguez-Llansola, J.M. Martín-Martínez. "New waterborne new waterborne polyurethane-urea synthesized with ether-carbonate copolymer and amino-alcohol chain extenders with tailored pressure-sensitive adhesion properties". Materials 13, Issue 3, 627 (2020).
- 71- M. Fuensanta, J.M. Martín-Martínez. "Viscoelastic and adhesion properties of new poly(ether-urethane) pressure-sensitive adhesives". Frontiers in Mechanical Engineering 6, Article 34 (2020). doi: 10.3389/fmech.2020.00034
- 72- A. Tounici, J.M. Martín-Martínez. "Addition of graphene oxide in different stages of the synthesis of waterborne polyurethane-urea adhesives and its influence on their

- structure, thermal, viscoelastic and adhesion properties". Materials 13, Issue 7-1 Article 2899 (2020). doi:10.3390/ma13132899
- 73- M. Fuensanta, A. Khoshnood, J.M. Martín-Martínez. "Structure-properties relationship in waterborne poly(urethane urea)s synthesized with dimethylolpropionic acid (DMPA) internal emulsifier added before, during and after prepolymer formation". Polymers 12, Article 2478 (2020). doi:10.3390/polym12112478
- 74- M. Fuensanta, J.M. Martín-Martínez. "Influence of the hard segments content on the structure, viscoelastic and adhesion properties of thermoplastic polyurethane pressure sensitive adhesives". Journal of Adhesion Science and Technology 34(24), 2652-2671 (2020). doi:10.1080/01694243.2020.1780774
- 75- J.M. Martín-Martínez. "The impact of COVID-19 on adhesion science". Journal of Adhesion Science and Technology 35(1), 1-2 (2021). doi:10.1080/01694243.2020.1863629
- 76- A. Tounici, J.M. Martín-Martínez. "Addition of small amounts of graphene oxide in the polyol during the synthesis of waterborne polyurethane urea adhesives for improving their adhesion properties". International Journal of Adhesion and Adhesives 104, Article 102725 (2021). doi:10.1016/j.ijadhadh.2020.102725
- 77- A. Tounici, J.M. Martín-Martínez. "Influence of the surface chemistry of graphene oxide on the structure-property relationship of waterborne poly(urethane urea) adhesive". Materials 14, Article 4377 (2021). doi: 10.3390/ma14164377
- 78-M. Fuensanta, J.M. Martín-Martínez. "Structural and viscoelastic properties of thermoplastic polyurethanes containing mixed soft segments with potential application as pressure sensitive adhesives". Polymers 13, Article 3097 (2021). doi: 10.3390/polym13183097
- 79-J.M. Martín-Martínez. "Special section in honor of Professor Jean-Pierre Pascault: Half a century of polymer chemistry and polymer materials research". Journal of Adhesion Science and Technology 35(24), 2721-2722 (2021). doi: 10.1080/01694243.2021.1978659
- 80- A. Tounici, J.M. Martín-Martínez. "Structure and adhesion properties of waterborne poly(urethane urea)s containing small amounts of different graphene derivatives". Journal of Adhesion Science and Technology 35(24), 2758-2789 (2021). doi: 10.1080/01694243.2021.1970371
- 81- I. Mayouf, M. Guessoum, Z. Rahem, M. Fuensanta, J.M. Martín-Martínez. "Structural, thermo-mechanical and morphological properties of composites made with poly(lactic acid) and poly(ethylene terephthalate) fibers without compatibilizer". Journal of Adhesion Science and Technology 36(22), 2381-2403 (2022). doi: 10.1080/01694243.2022.2066826
- 82- M. Echarri-Giacchi, J.M. Martín-Martínez. "Efficient physical mixing of small amounts of nanosilica dispersion and waterborne polyurethane by using mild stirring conditions. Polymers 14, Article 5136 (2022). doi: 10.3390/polym14235136
- 83- V. Pascual-Sánchez, J.M. Martín-Martínez. "Different approach to the mechanism of adhesion of surface treated with trichloroisocyanuric acid solution rubber and polyurethane adhesive joints". Rubber Chemistry and Technology 95(4), 590-611 (2022). doi: 10.5254/rct.22.77974

- 84-M. Echarri-Giacchi, J.M. Martín-Martínez. "Structural and adhesion properties of waterborne polyurethane adhesives containing nanosilica dispersion obtained with different physical mixing procedures". International Journal of Adhesion & Adhesives 123, Article 103342 (2023). doi: 10.1016/j.ijadhadh.2023.103342
- 85- J.M. Martín-Martínez. "An overview of the evolution of JAST in 2022 and perspectives for 2023". Journal of Adhesion Science and Technology 37(1), 1-2 (2023). doi: 10.1080/01694243.2023.2157548
- 86-Y. Paez-Amieva, J. Carpena-Montesinos, J.M. Martín-Martínez. "Innovative device and procedure for in situ quantification of the self-healing ability and kinetics of self-healing of polymeric materials". Polymers 15, Article 2152 (2023). doi: 10.3390/polym15092152
- 87-Y. Paez-Amieva, J.M. Martín-Martínez. "Understanding the interactions between soft segments in polyurethanes: Structural synergies in blends of polyester and polycarbonate diol polyols". Preprints.org 15, Posted on 20th October 2023 (2023). doi: 0.20944/preprints202310.1335.v1