# M Mercedes Pastor-Blas

List of Publications by Year
in descending order



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|---|---|---|---|
| 65 papers | 1,617 citations | 218662 26 h-index | 330122 37 g-index |
| 65 all docs | 65 docs citations | 65 times ranked | 1309 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Surface modification of natural halloysite clay nanotubes with aminosilanes. Application as catalyst supports in the atom transfer radical polymerization of methyl methacrylate. Applied Catalysis A: General, 2011, 406, 22-33. | 4.3 | 108 |
| 2 | Use of nanotubes of natural halloysite as catalyst support in the atom transfer radical polymerization of methyl methacrylate. Microporous and Mesoporous Materials, 2009, 120, 132-140. | 4.4 | 95 |
| 3 | Adhesion improvement of SBR rubber by treatment with trichloroisocyanuric acid solutions in different esters. International Journal of Adhesion and Adhesives, 2001, 21, 325-337. | 2.9 | 70 |
| 4 | Environmentally friendly reduction of a platinum catalyst precursor supported on polypyrrole. Green Chemistry, 2013, 15, 1981. | 9.0 | 70 |
| 5 | Addition of ozone in the UV radiation treatment of a synthetic styrene-butadiene-styrene (SBS) rubber. International Journal of Adhesion and Adhesives, 2005, 25, 358-370. | 2.9 | 60 |
| 6 | Treatment of a styrene-butadiene-styrene rubber with corona discharge to improve the adhesion to polyurethane adhesive. International Journal of Adhesion and Adhesives, 2003, 23, 49-57. | 2.9 | 49 |
| 7 | Structural modification of sepiolite (natural magnesium silicate) by thermal treatment: effect on the properties of polyurethane adhesives. International Journal of Adhesion and Adhesives, 1997, 17, 111-119. | 2.9 | 46 |
| 8 | Surface characterization of synthetic vulcanized rubber treated with oxygen plasma. Surface and Interface Analysis, 1998, 26, 385-399. | 1.8 | 46 |
| 9 | Surface modification of synthetic vulcanized rubber. Journal of Adhesion Science and Technology, 1994, 8, 1093-1114. | 2.6 | 45 |
| 10 | Surface Characterization of Vulcanized Rubber Treated with Sulfuric Acid and its Adhesion to Polyurethane Adhesive. Journal of Adhesion, 2000, 73, 135-160. | 3.0 | 45 |
| 11 | Proposed mechanisms for the removal of nitrate from water by platinum catalysts supported on polyaniline and polypyrrole. Applied Catalysis B: Environmental, 2018, 225, 162-171. | 20.2 | 44 |
| 12 | Influence of the styrene content of thermoplastic styreneâ€“butadiene rubbers in the effectiveness of the treatment with sulfuric acid. International Journal of Adhesion and Adhesives, 2001, 21, 161-172. | 2.9 | 42 |
| 13 | Title is missing!. Plasmas and Polymers, 2001, 6, 81-105. | 1.5 | 42 |
| 14 | Weak Boundary Layers in Styrene-Butadiene Rubber. Journal of Adhesion, 1995, 50, 191-210. | 3.0 | 40 |
| 15 | Effect of cold Ar plasma treatment on the catalytic performance of Pt/CeO2 in water-gas shift reaction (WGS). Applied Catalysis B: Environmental, 2018, 225, 121-127. | 20.2 | 39 |
| 16 | Properties of Polyurethane Elastomers with Different Hard/Soft Segment Ratio. Journal of Adhesion, 1998, 67, 327-345. | 3.0 | 37 |
| 17 | Title is missing!. Journal of Materials Science, 2001, 36, 5789-5799. | 3.7 | 37 |
| 18 | Catalytic Conversion of Palm Oil to Bio-Hydrogenated Diesel over Novel N-Doped Activated Carbon Supported Pt Nanoparticles. Energies, 2020, 13, 132. | 3.1 | 37 |

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|---|---|---|---|
| 19 | UV treatment of synthetic styrene-butadiene-styrene rubber. Journal of Adhesion Science and Technology, 2003, 17, 25-45. | 2.6 | 32 |
| 20 | Failure analysis of surface-treated unvulcanized SBS rubber/polyurethane adhesive joints. International Journal of Adhesion and Adhesives, 1997, 17, 133-141. | 2.9 | 31 |
| 21 | Chlorination of vulcanized styrene-butadiene rubber using solutions of trichloroisocyanuric acid in different solvents. Journal of Adhesion Science and Technology, 2000, 14, 561-581. | 2.6 | 31 |
| 22 | Durability of the halogenation in synthetic rubber. International Journal of Adhesion and Adhesives, 2001, 21, 101-106. | 2.9 | 30 |
| 23 | Properties of elastomeric polyurethanes obtained with Ïµ-caprolactone macroglycol. International Journal of Adhesion and Adhesives, 1997, 17, 155-161. | 2.9 | 27 |
| 24 | Improved peel strength in vulcanized sbr rubber roughened before chlorination with trichloroisocyanuric acid. Journal of Adhesion, 2002, 78, 15-38. | 3.0 | 27 |
| 25 | SURFACE MODIFICATIONS AND ADHESION OF VULCANIZED SBR RUBBER TREATED WITH RF PLASMAS OF DIFFERENT GASES. Journal of Adhesion, 2004, 80, 613-634. | 3.0 | 27 |
| 26 | In-situ HDO of guaiacol over nitrogen-doped activated carbon supported nickel nanoparticles. Applied Catalysis A: General, 2021, 620, 118033. | 4.3 | 27 |
| 27 | Environmental friendly surface treatments of styreneâ€“butadieneâ€“styrene rubber: alternatives to the solvent-based halogenation treatment. International Journal of Adhesion and Adhesives, 2005, 25, 19-29. | 2.9 | 26 |
| 28 | Influence of the nature and formulation of sty rene-butadiene rubber on the effects produced by surface treatment with trichloroisocyanuric acid. Journal of Adhesion Science and Technology, 1997, 11, 447-470. | 2.6 | 23 |
| 29 | Relevance of polyurethane configuration on adhesion properties. International Journal of Adhesion and Adhesives, 1994, 14, 193-200. | 2.9 | 22 |
| 30 | Chlorination of SBS rubbers with different styrene contents using trichloro-isocyanuric acid. Journal of Adhesion Science and Technology, 1999, 13, 903-930. | 2.6 | 20 |
| 31 | â€œH2-freeâ€•demethoxylation of guaiacol in subcritical water using Pt supported on N-doped carbon catalysts: A cost-effective strategy for biomass upgrading. Journal of Energy Chemistry, 2021, 58, 377-385. | 12.9 | 19 |
| 32 | Characterization of solvent-based polyurethane adhesives containing sepiolite as a filler. Rheological, mechanical, surface, and adhesion properties. Journal of Adhesion Science and Technology, 1997, 11, 247-262. | 2.6 | 18 |
| 33 | Different surface modifications produced by oxygen plasma and halogenation treatments on a vulcanized rubber. Journal of Adhesion Science and Technology, 2002, 16, 409-428. | 2.6 | 18 |
| 34 | Treatment of thermoplastic rubberwith chlorine bleach as an alternative halogenation treatment in the footwear industry. Journal of Adhesion, 2003, 79, 207-237. | 3.0 | 17 |
| 35 | Surfactant-assisted synthesis of conducting polymers. Application to the removal of nitrates from water. Journal of Colloid and Interface Science, 2017, 494, 98-106. | 9.4 | 17 |
| 36 | Comparison of the Properties of Polyurethane Adhesives Containing Fumed Silica or Sepiolite as Filler. Journal of Adhesion, 1997, 61, 195-211. | 3.0 | 16 |

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|---|---|---|---|
| 37 | Assessment of the locus of failure of oxygen plasma-treated rubber/polyurethane adhesive joints using XPS and IRATR spectroscopy. Surface and Interface Analysis, 2000, 30, 7-11. | 1.8 | 15 |
| 38 | Chlorination of vulcanized SBR rubber by immersion or brushing in TCI solutions. Journal of Adhesion Science and Technology, 2001, 15, 1601-1619. | 2.6 | 14 |
| 39 | Improved adhesion between polyurethane and SBR rubber treated with trichloroisocyanuric acid solutions containing different concentrations of chlorine. Composite Interfaces, 2003, 10, 77-94. | 2.3 | 14 |
| 40 | Green synthesis of polypyrrole-supported metal catalysts: application to nitrate removal in water. RSC Advances, 2015, 5, 32706-32713. | 3.6 | 14 |
| 41 | Mechanisms of Adhesion in Surface Chlorinated Thermoplastic Rubber/Thermoplastic Polyurethane Adhesive Joints. Rubber Chemistry and Technology, 2002, 75, 825-838. | 1.2 | 13 |
| 42 | Influence of Chlorinating Solution Concentration on the Interactions Produced Between Chlorinated Thermoplastic Rubber and Polyurethane Adhesive at the Interface. Journal of Adhesion, 2002, 78, 39-77. | 3.0 | 12 |
| 43 | A new water-based chemical treatment based on sodium dichloroisocyanurate (DCI) for rubber soles in the footwear industry. Journal of Adhesion Science and Technology, 2002, 16, 257-283. | 2.6 | 12 |
| 44 | Plasmaâ€Assisted Synthesis of Monodispersed and Robust Ruthenium Ultrafine Nanocatalysts for Organosilane Oxidation and Oxygen Evolution Reactions. ChemCatChem, 2017, 9, 4159-4163. | 3.7 | 11 |
| 45 | Conducting Polymerâ€“TiO<sub>2</sub>Hybrid Materials: Application in the Removal of Nitrates from Water. Langmuir, 2019, 35, 6089-6105. | 3.5 | 11 |
| 46 | Surface Characterization of Chlorinated Synthetic Vulcanized Styrene-Butadiene Rubber Using Contact Angle Measurements, Infra-Red Spectroscopy and XPS. Journal of Adhesion, 1997, 63, 121-140. | 3.0 | 10 |
| 47 | Different Performance of Ar, O2 and CO2 RF Plasmas in the Adhesion of Thermoplastic Rubber to Polyurethane Adhesive. , 2005, , 177-192. | | 10 |
| 48 | Weak boundary layers on vulcanized styreneâ€“butadiene rubber treated with sulfuric acid. Journal of Adhesion Science and Technology, 2001, 15, 1323-1350. | 2.6 | 9 |
| 49 | Improved Adhesion of RF Plasma Treated Rubbers by Isocyanate Incorporation to Polyurethane Adhesive. Plasma Processes and Polymers, 2008, 5, 681-694. | 3.0 | 9 |
| 50 | Water-based chlorination treatment of SBS rubber soles to improve their adhesion to waterborne polyurethane adhesives in the footwear industry. Journal of Adhesion Science and Technology, 2005, 19, 947-974. | 2.6 | 7 |
| 51 | Interactions at the interface between thermoplastic rubber and polychloroprene adhesive. Surface and Interface Analysis, 2008, 40, 107-120. | 1.8 | 7 |
| 52 | Influence of the surface chemistry of activated carbons on the ATRP catalysis of methyl methacrylate polymerization. Applied Catalysis A: General, 2011, 397, 225-233. | 4.3 | 7 |
| 53 | Metal-free abatement of nitrate contaminant from water using a conducting polymer. Chemical Engineering Journal, 2021, 403, 126228. | 12.7 | 7 |
| 54 | Hydrogenation of 4-nitrochlorobenzene catalysed by cobalt nanoparticles supported on nitrogen-doped activated carbon. Catalysis Science and Technology, 2021, 11, 3845-3854. | 4.1 | 7 |

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|---|---|---|---|
| 55 | Influence of calcium carbonate added to the SBS rubber formulation on the surface modifications produced by halogenation. Journal of Adhesion Science and Technology, 2005, 19, 1237-1247. | 2.6 | 6 |
| 56 | Elimination of the reactivation process in the adhesion of chlorinated SBS rubber with polychloroprene adhesives. EXPRESS Polymer Letters, 2007, 1, 236-244. | 2.1 | 6 |
| 57 | Migration of Processing Oils of Thermoplastic Rubber Treated with RF Plasma. Plasma Chemistry and Plasma Processing, 2008, 28, 391-404. | 2.4 | 6 |
| 58 | Influence of the porous structure of activated carbons in the activity of ATRP catalyst for methyl methacrylate polymerization. Catalysis Today, 2010, 150, 42-48. | 4.4 | 6 |
| 59 | Environmental Friendly Surface Treatment of SBS Rubber with Acidified Chloramine T Aqueous Solutions. Rubber Chemistry and Technology, 2007, 80, 139-158. | 1.2 | 5 |
| 60 | Influence of Rubber Formulation on Surface Modifications Produced by RF Plasma. Plasma Chemistry and Plasma Processing, 2010, 30, 311-332. | 2.4 | 5 |
| 61 | Surface Analysis of Debonded Chlorinated Vulcanized Styrene-Butadiene Rubber Joints. Journal of Adhesion, 1997, 62, 23-43. | 3.0 | 4 |
| 62 | MEK wiping prior to chlorination to improve the adhesion of vulcanized SBR rubber containing paraffin wax. Journal of Adhesion Science and Technology, 2002, 16, 1765-1780. | 2.6 | 4 |
| 63 | Nâ€Ðoped Activated Carbons from Polypyrrole â€“ Effect of Steam Activation Conditions. Chemie-Ingenieur-Technik, 2022, 94, 94-100. | 0.8 | 3 |
| 64 | Compatibility Improvement between Chlorinated Thermoplastic Rubber and Polychloroprene Adhesive. Rubber Chemistry and Technology, 2009, 82, 18-36. | 1.2 | 2 |
| 65 | Surface characterization of synthetic vulcanized rubber treated with oxygen plasma. Surface and Interface Analysis, 1998, 26, 385-399. | 1.8 | 1 |