

Maria R Coleman

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,924
citations

236925

25
h-index

254184

43
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56
all docs

56
docs citations

56
times ranked

1859
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Aryl sulfonic acid catalysts: Effect of pendant group structure on activity in hydrolysis of polyethylene terephthalate. <i>Journal of Applied Polymer Science</i> , 2022, 139, . | 2.6 | 4 |
| 2 | Improved polymerization and depolymerization kinetics of poly(ethylene terephthalate) by co-polymerization with 2,5-furandicarboxylic acid. <i>RSC Advances</i> , 2021, 11, 23506-23518. | 3.6 | 12 |
| 3 | Poly (4-styrenesulfonic acid): A recoverable and reusable catalyst for acid hydrolysis of polyethylene terephthalate. <i>Polymer</i> , 2021, 222, 123620. | 3.8 | 18 |
| 4 | Mitigation of the Color Generated During Mechanical Recycling of PET/MXD6 blends. <i>Polymer Degradation and Stability</i> , 2021, 194, 109748. | 5.8 | 1 |
| 5 | Effect of Biaxial Orientation on Microstructure and Properties of Renewable Copolyesters of Poly(ethylene terephthalate) with 2,5-Furandicarboxylic Acid for Packaging Application. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1798-1810. | 4.4 | 28 |
| 6 | Effect of Dimethyl Terephthalate and Dimethyl Isophthalate on the Free Volume and Barrier Properties of Poly(ethylene terephthalate) (PET): Amorphous PET. <i>Macromolecules</i> , 2018, 51, 456-467. | 4.8 | 31 |
| 7 | Combined effect of small molecule antiplasticizers and strain induced crystallization on properties of polyethylene terephthalate. <i>Polymer Crystallization</i> , 2018, 1, e10016. | 0.8 | 3 |
| 8 | Role of enhanced solubility in esterification of 2,5-furandicarboxylic acid with ethylene glycol at reduced temperatures: energy efficient synthesis of poly(ethylene 2,5-furandicarboxylate). <i>Reaction Chemistry and Engineering</i> , 2018, 3, 447-453. | 3.7 | 23 |
| 9 | High-throughput Continuous Production of Shear-Exfoliated 2D Layered Materials using Compressible Flows. <i>Advanced Materials</i> , 2018, 30, e1800200. | 21.0 | 51 |
| 10 | Modification of poly(ethylene terephthalate) (PET) using linoleic acid for oxygen barrier improvement: Impact of processing methods. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45023. | 2.6 | 17 |
| 11 | Effect of Chain Dynamics, Crystallinity, and Free Volume on the Barrier Properties of Poly(ethylene terephthalate) (PET)/Clay Nanocomposites. <i>International Journal of Polymer Science</i> , 2017, 2017, 1-10. | 4.8 | 101 |
| 12 | A Novel Approach to Improve the Barrier Properties of PET/Clay Nanocomposites. <i>International Journal of Polymer Science</i> , 2017, 2017, 1-10. | 2.7 | 35 |
| 13 | Surface modification of ZrO ₂ and ZrO ₂ (OH)·2H ₂ O by in situ polymerization: Enhanced filler particles for use in composites. <i>Polymer Composites</i> , 2016, 37, 1359-1368. | 4.6 | 3 |
| 14 | Gas transport properties in (6FDA-TRIL)-MDA block copolyimides. <i>Journal of Applied Polymer Science</i> , 2016, 133, . | 2.6 | 11 |
| 15 | Impact of processing method and surface functionality on carbon nanofiber dispersion in polyimide matrix and resulting mechanical properties. <i>Polymer Composites</i> , 2014, 35, 1473-1485. | 4.6 | 8 |
| 16 | Synthesis of room temperature ionic liquids based random copolyimides for gas separation applications. <i>European Polymer Journal</i> , 2013, 49, 482-491. | 5.4 | 44 |
| 17 | Formation of high loading flexible carbon nanofiber network composites. <i>Composites Science and Technology</i> , 2013, 75, 1-6. | 7.8 | 17 |
| 18 | Preparation and properties of polyimide nanocomposites with negative thermal expansion nanoparticle filler. <i>Materials Chemistry and Physics</i> , 2012, 137, 448-457. | 4.0 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Development and Characterization of Ionic Liquid-Functionalized Nanocomposite Membranes. ACS Symposium Series, 2011, , 61-79. | 0.5 | 1 |
| 20 | Surface Functionalization of Polybenzimidazole Membranes To Increase Hydrophilicity and Charge. ACS Symposium Series, 2011, , 303-321. | 0.5 | 7 |
| 21 | Zirconium tungstate/polymer nanocomposites: Challenges and opportunities. Physica Status Solidi (B): Basic Research, 2011, 248, 123-129. | 1.5 | 59 |
| 22 | Functionalization of polybenzimidazole membranes to impart negative charge and hydrophilicity. Journal of Membrane Science, 2010, 363, 195-203. | 8.2 | 55 |
| 23 | Gas transport properties of polyimide-POSS nanocomposites. Journal of Membrane Science, 2010, 358, 26-32. | 8.2 | 75 |
| 24 | Synthesis and characterization of transparent alumina reinforced polycarbonate nanocomposite. Polymer, 2010, 51, 2494-2502. | 3.8 | 57 |
| 25 | Synthesis of copolyimides based on room temperature ionic liquid diamines. Journal of Polymer Science Part A, 2010, 48, 4036-4046. | 2.3 | 58 |
| 26 | Functionalization of carbon nanofibers with elastomeric block copolymer using carbodiimide chemistry. Applied Surface Science, 2009, 255, 4806-4813. | 6.1 | 32 |
| 27 | A hybrid functional nanomaterial: POSS functionalized carbon nanofiber. Nanotechnology, 2009, 20, 325603. | 2.6 | 28 |
| 28 | Thermal and mechanical properties of blended polyimide and amine-functionalized poly(orthosiloxane) composites. Journal of Applied Polymer Science, 2008, 108, 2691-2699. | 2.6 | 28 |
| 29 | Equilibrium swelling behavior of thermally responsive metal affinity hydrogels, Part II: Solution effects. Polymer, 2008, 49, 3744-3750. | 3.8 | 4 |
| 30 | Equilibrium swelling behavior of thermally responsive metal affinity hydrogels, Part I: Compositional effects. Polymer, 2008, 49, 3737-3743. | 3.8 | 12 |
| 31 | Functionalization of carbon nanofibers with diamine and polyimide oligmer. Carbon, 2008, 46, 1115-1125. | 10.3 | 32 |
| 32 | Impact of Mobile Phase Parameters on Transport Properties of Metal Affinity Hydrogel Membranes. Separation Science and Technology, 2008, 43, 4075-4098. | 2.5 | 5 |
| 33 | Effect of H+and N-Irradiation on Structure and Permeability of the Polyimide Matrimid®. Separation Science and Technology, 2008, 43, 4030-4055. | 2.5 | 3 |
| 34 | Development of Smart Membrane Filters for Microbial Sensing. Separation Science and Technology, 2008, 43, 4056-4074. | 2.5 | 15 |
| 35 | Influence of Carbon Nanofiber Content and Surface Treatment on Mechanical Properties of Vinyl Ester. Polymers and Polymer Composites, 2008, 16, 405-414. | 1.9 | 11 |
| 36 | Controlling Phase Transition Behavior of Thermally Responsive Metal Affinity Hydrogels: A Molecular Design Approach. Macromolecules, 2007, 40, 5850-5857. | 4.8 | 8 |

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|----|--|-----|-----------|
| 37 | Impact of H ⁺ ion beam irradiation on Matrimid [®] . II. Evolution in gas transport properties. Journal of Applied Polymer Science, 2007, 103, 1670-1680. | 2.6 | 11 |
| 38 | Development of environmentally responsive hydrogels with metal affinity behavior. Journal of Applied Polymer Science, 2007, 105, 1210-1220. | 2.6 | 4 |
| 39 | Engineering for Teachers of Migrant Students (ETMS). Environmental Engineering Science, 2006, 23, 472-478. | 1.6 | 1 |
| 40 | Effect of thermal hysteresis on the gas permeation properties of 6FDA-based polyimides. Journal of Applied Polymer Science, 2004, 91, 1174-1182. | 2.6 | 25 |
| 41 | Impact of H ⁺ ion irradiation on Matrimid [®] . I. Evolution in chemical structure. Journal of Applied Polymer Science, 2003, 90, 2010-2019. | 2.6 | 3 |
| 42 | Impact of ion beam irradiation on microstructure and gas permeance of polysulfone asymmetric membranes. Journal of Membrane Science, 2003, 214, 143-156. | 8.2 | 21 |
| 43 | Ion Beam Modification of Matrimid [®] Gas Separation Membrane—Evolution in Chemical Structure, Microstructure and Gas Permeation Properties. Materials Research Society Symposia Proceedings, 2002, 752, 1. | 0.1 | 0 |
| 44 | Modification of commercial water treatment membranes by ion beam irradiation. Desalination, 2002, 146, 259-264. | 8.2 | 30 |
| 45 | Immobilized Metal Affinity Membrane Separation: Characteristics of Two Materials of Differing Preparation Chemistries. Separation Science and Technology, 1999, 34, 2793-2802. | 2.5 | 15 |
| 46 | Properties of Cysteine-Added Soy Protein-Wheat Gluten Films. Journal of Food Science, 1999, 64, 514-518. | 3.1 | 72 |
| 47 | Conditioning of Fluorine-Containing Polyimides. 2. Effect of Conditioning Protocol at 8 Volume Dilution on Gas-Transport Properties. Macromolecules, 1999, 32, 3106-3113. | 4.8 | 77 |
| 48 | Ion implant-induced change in polyimide films monitored by variable energy positron annihilation spectroscopy. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 2413-2421. | 2.1 | 14 |
| 49 | Conditioning of Fluorine Containing Polyimides. 1. Effect of Exposure to High Pressure Carbon Dioxide on Permeability. Macromolecules, 1997, 30, 6899-6905. | 4.8 | 42 |
| 50 | Mechanical and Barrier Properties of Rice Bran Films. Journal of Food Science, 1997, 62, 395-398. | 3.1 | 57 |
| 51 | Atomic force microscopy images of ion-implanted 6FDA-pMDA polyimide films. Journal of Applied Polymer Science, 1997, 66, 459-469. | 2.6 | 27 |
| 52 | The transport properties of polyimide isomers containing hexafluoroisopropylidene in the diamine residue. Journal of Polymer Science, Part B: Polymer Physics, 1994, 32, 1915-1926. | 2.1 | 108 |
| 53 | Gas-separation applications of miscible blends of isomeric polyimides. Journal of Applied Polymer Science, 1993, 50, 1059-1064. | 2.6 | 27 |
| 54 | Controlled Permeability Polymer Membranes. Annual Review of Materials Research, 1992, 22, 47-89. | 5.5 | 149 |

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|----|---|-----|-----------|
| 55 | Isomeric polyimides based on fluorinated dianhydrides and diamines for gas separation applications. Journal of Membrane Science, 1990, 50, 285-297. | 8.2 | 321 |