

# Maria L. Auad

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80  
papers

1,847  
citations

23  
h-index

41  
g-index

83  
ext. papers

2,095  
ext. citations

3.9  
avg, IF

4.79  
L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 80 | Synthesis and Characterization of Chanar Gum Films. <i>Colloids and Interfaces</i> , <b>2022</b> , 6, 10   | 3   | 1         |
| 79 | Moisture-induced changes in the mechanical behavior of 3D printed polymers. <i>Composites Part C: Open Access</i> , <b>2022</b> , 7, 100243  | 1.6 | 1         |
| 78 | Material Design for Enhancing Properties of 3D Printed Polymer Composites for Target Applications. <i>Technologies</i> , <b>2022</b> , 10, 45  | 2.4 | 2         |
| 77 | Formulation of the Polymeric Double Networks (DNs) for Biomedical Applications with Physicochemical Properties to Resemble a Biological Tissue. <i>Sustainable Chemistry</i> , <b>2022</b> , 3, 248-258                          | 3.6 |           |
| 76 | Fabrication and Characterization of Cross-Linked Phenyl-Acrylate-Based Ion Exchange Membranes and Performance in a Direct Urea Fuel Cell. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 14856-14867 | 3.9 | 4         |
| 75 | Flexible acrylic-polyurethane based graft-interpenetrating polymer networks for high impact structural applications. <i>European Polymer Journal</i> , <b>2021</b> , 148, 110338   | 5.2 | 6         |
| 74 | Simple functionalization of cellulose beads with pre-propargylated chitosan for clickable scaffold substrates. <i>Cellulose</i> , <b>2021</b> , 28, 6073   | 5.5 | 1         |
| 73 | High-fracture-toughness acrylic-polyurethane-based graft-interpenetrating polymer networks for transparent applications. <i>Polymer International</i> , <b>2021</b> , 70, 636-647  | 3.3 | 4         |
| 72 | Mechanical performance of vinyl ester-polyurethane interpenetrating polymer network composites. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50411   | 2.9 | 7         |
| 71 | Isolating key reaction energetics and thermodynamic properties during hardwood model lignin pyrolysis. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 20919-20935  | 3.6 | 1         |
| 70 | Synthesis and characterization of photopolymerizable hydrogels based on poly (ethylene glycol) for biomedical applications. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50489                                 | 2.9 | 2         |
| 69 | Mechanical characterization and modeling stress relaxation behavior of acrylic-polyurethane-based graft-interpenetrating polymer networks. <i>Polymer Engineering and Science</i> , <b>2021</b> , 61, 1299-1309                  | 2.3 | 5         |
| 68 | Synthesis and characterization of chemically crosslinked gelatin and chitosan to produce hydrogels for biomedical applications. <i>Polymers for Advanced Technologies</i> , <b>2021</b> , 32, 2229-2239                          | 3.2 | 5         |
| 67 | Graft Semi-Interpenetrating Polymer Network Phase Change Materials for Thermal Energy Storage. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 1785-1794   | 4.3 | 2         |
| 66 | Synthesis of Biobased Novolac Phenol-Formaldehyde Wood Adhesives from Biorefinery-Derived Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 10990-11002                               | 8.3 | 1         |
| 65 | Efficacy of Gold Photothermal-Activated Shape Memory Polyurethane. <i>Journal of Nanomaterials</i> , <b>2020</b> , 2020, 1-8   | 3.2 | 3         |
| 64 | Preparation of slow release encapsulated insecticide and fertilizer based on superabsorbent polysaccharide microbeads. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 49177                                      | 2.9 | 9         |

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| 63 | Biopolymers as a sustainable solution for the enhancement of soil mechanical properties. <i>Scientific Reports</i> , <b>2020</b> , 10, 267  | 4.9 | 46 |
| 62 | The effect of residual lignin on the rheological properties of cellulose nanofibril suspensions. <i>Journal of Wood Chemistry and Technology</i> , <b>2020</b> , 40, 370-381  | 2   | 13 |
| 61 | Model Lignin Oligomer Pyrolysis: Coupled Conformational and Thermodynamic Analysis of E0-4? Bond Cleavage. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 9709-9724  | 4.1 | 6  |
| 60 | Fast pyrolysis bio-oil from lignocellulosic biomass for the development of bio-based cyanate esters and cross-linked networks. <i>High Performance Polymers</i> , <b>2019</b> , 31, 1140-1152   | 1.6 | 4  |
| 59 | Synthesis and Characterization of High Performance Interpenetrating Polymer Networks With Polyurethane and Poly(methyl methacrylate) <b>2019</b> , 243-255  |     | 6  |
| 58 | Cross-Linked Acrylic Polymers from the Aqueous Phase of Biomass Pyrolysis Oil and Acrylated Epoxidized Soybean Oil. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 2216-2224   | 8.3 | 8  |
| 57 | Development of antimicrobial-loaded polyurethane films for drug-eluting catheters. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46467   | 2.9 | 7  |
| 56 | Synthesis and characterization of epoxy resins from fast pyrolysis bio-oil. <i>Green Materials</i> , <b>2018</b> , 6, 76-84   | 3.2 | 9  |
| 55 | Quasi-static and dynamic mechanical behavior of transparent graft-interpenetrating polymer networks (graft-IPNs). <i>Polymer Testing</i> , <b>2018</b> , 70, 348-362  | 4.5 | 12 |
| 54 | Fast pyrolysis bio-oil as precursor of thermosetting epoxy resins. <i>Polymer Engineering and Science</i> , <b>2018</b> , 58, 1296-1307   | 2.3 | 6  |
| 53 | Sustainable products from bio-oils. <i>MRS Bulletin</i> , <b>2017</b> , 42, 365-370   | 3.2 | 7  |
| 52 | Synthesis and Characterization of Interpenetrating Polymer Networks (IPNs) from Acrylated Soybean Oil and Resorcylic Acid: Part 1. Kinetics of Network Formation. <i>Journal of Renewable Materials</i> , <b>2017</b> , 5, 231-240                          | 2.4 | 3  |
| 51 | Preparation and Characterization of Epoxy Resin Cross-Linked with High Wood Pyrolysis Bio-Oil Substitution by Acetone Pretreatment. <i>Polymers</i> , <b>2017</b> , 9,  | 4.5 | 14 |
| 50 | Synthesis and Characterization of Bio-oil-Based Self-Curing Epoxy Resin. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 9389-9400   | 3.9 | 30 |
| 49 | Pit membranes and their evolution in the Oleinae of the Oleaceae. <i>IAWA Journal</i> , <b>2017</b> , 38, 201-219   | 2.3 | 1  |
| 48 | Synthesis and Characterization of Interpenetrating Polymer Networks (IPNs) from Acrylated Soybean Oil Resorcylic Acid: Part 2. Thermo-Mechanical Properties and Linear Fracture Mechanics. <i>Journal of Renewable Materials</i> , <b>2017</b> , 5, 241-250 | 2.4 | 4  |
| 47 | The effect of ethanol on hydroxyl and carbonyl groups in biopolyol produced by hydrothermal liquefaction of loblolly pine: (31)P-NMR and (19)F-NMR analysis. <i>Bioresource Technology</i> , <b>2016</b> , 214, 37-44                                       | 4.1 | 14 |
| 46 | Comparative Study of the Effects of Cellulose Nanowhiskers and Microcrystalline Cellulose Addition as Reinforcement in Flexible Films Based on Biopolymer Blends <b>2016</b> , 409-416  |     |    |

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| 45 | Preparation of alginate-chitosan fibers with potential biomedical applications. <i>Carbohydrate Polymers</i> , <b>2015</b> , 134, 598-608   | 10.3 | 60 |
| 44 | Pyrolysis oil substituted epoxy resin: Improved ratio optimization and crosslinking efficiency. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a  | 2.9  | 12 |
| 43 | Liquefaction and substitution of switchgrass ( <i>Panicum virgatum</i> ) based bio-oil into epoxy resins. <i>Industrial Crops and Products</i> , <b>2014</b> , 57, 116-123  | 5.9  | 23 |
| 42 | Renewable thermoset copolymers from tung oil and natural terpenes. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a   | 2.9  | 17 |
| 41 | Responsive Nanocellulose Composites. <i>Materials and Energy</i> , <b>2014</b> , 181-199  |      | 2  |
| 40 | Seed-Mediated Growth of Gold Nanorods: Limits of Length to Diameter Ratio Control. <i>Journal of Nanomaterials</i> , <b>2014</b> , 2014, 1-7  | 3.2  | 27 |
| 39 | PIT MEMBRANES OF EPHEDRA RESEMBLE GYMNOSPERMS MORE THAN ANGIOSPERMS. <i>IAWA Journal</i> , <b>2014</b> , 35, 217-235  | 2.3  | 2  |
| 38 | Polyurethanes Reinforced with Cellulose <b>2014</b> , 65-88   |      |    |
| 37 | Tensile, fracture and impact behavior of transparent Interpenetrating Polymer Networks with polyurethane-poly(methyl methacrylate). <i>Polymer Testing</i> , <b>2013</b> , 32, 889-900                                | 4.5  | 29 |
| 36 | Synthesis and characterization of high performance, transparent interpenetrating polymer networks with polyurethane and poly(methyl methacrylate). <i>Polymer Engineering and Science</i> , <b>2013</b> , 53, 716-723 | 2.3  | 29 |
| 35 | Detecting insect infestation using a polymer based sensor array. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 174, 506-512  | 8.5  | 3  |
| 34 | Effect of Active Layer Morphology on Poly3-Hexylthiophene Phytochemical Chemiresistor Sensor Performance. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 3062-3068   | 4    | 2  |
| 33 | Shape memory segmented polyurethanes: dependence of behavior on nanocellulose addition and testing conditions. <i>Polymer International</i> , <b>2012</b> , 61, 321-327   | 3.3  | 32 |
| 32 | Effect of SWCNT dispersion on epoxy nanocomposite properties. <i>Polymer Composites</i> , <b>2012</b> , 33, 582-588   |      | 7  |
| 31 | Polyaniline-modified cellulose nanofibrils as reinforcement of a smart polyurethane. <i>Polymer International</i> , <b>2011</b> , 60, 743-750   | 3.3  | 49 |
| 30 | Study of nanoreinforced shape memory polymers processed by casting and extrusion. <i>Polymer Composites</i> , <b>2011</b> , 32, 455-463   | 3    | 11 |
| 29 | Effects of surface functionalization on the surface phage coverage and the subsequent performance of phage-immobilized magnetoelastic biosensors. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 2361-7     | 11.8 | 34 |
| 28 | Photocurrent generation from porphyrin/fullerene complexes assembled in a tethered lipid bilayer. <i>Langmuir</i> , <b>2010</b> , 26, 15671-9   | 4    | 18 |

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| 27 | Nanocomposites made from cellulose nanocrystals and tailored segmented polyurethanes. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 115, 1215-1225  | 2.9 | 61  |
| 26 | Functionalization of carbon nanotubes and carbon nanofibers used in epoxy/amine matrices that avoid partitioning of the monomers at the fiber interface. <i>Polymer Engineering and Science</i> , <b>2010</b> , 50, 183-190   | 2.3 | 15  |
| 25 | Single-wall carbon nanotubes/epoxy elastomers exhibiting high damping capacity in an extended temperature range. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 1088-1092   | 8.6 | 41  |
| 24 | Basalt fiber/Epoxy laminates with functionalized multi-walled carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2009</b> , 40, 1082-1089   | 8.4 | 54  |
| 23 | Synthesis and Characterization of a Single-Component Thermally Remendable Polymer Network: Staudinger and Stille Revisited. <i>Macromolecules</i> , <b>2008</b> , 41, 5203-5209   | 5.5 | 173 |
| 22 | Mechanical Behavior of Hybrid Composite Phenolic Foam. <i>Journal of Cellular Plastics</i> , <b>2008</b> , 44, 15-36  | 1.5 | 33  |
| 21 | Characterization of nanocellulose- reinforced shape memory polyurethanes. <i>Polymer International</i> , <b>2008</b> , 57, 651-659  | 3.3 | 146 |
| 20 | Temperature, conversion, and phase separation profiles during mold cure of a modified vinyl-ester resin. <i>Polymer Engineering and Science</i> , <b>2008</b> , 48, 52-61   | 2.3 |     |
| 19 | Synthesis and characterization of organically modified attapulgite/polyurethane nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 109, 2562-2570  | 2.9 | 44  |
| 18 | Shear-Induced Alignment of Smectic Side Group Liquid Crystalline Polymers. <i>Macromolecules</i> , <b>2007</b> , 40, 6624-6630  | 5.5 | 17  |
| 17 | Flammability properties and mechanical performance of epoxy modified phenolic foams. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 104, 1399-1407   | 2.9 | 85  |
| 16 | Rheological study of the curing kinetics of epoxy/phenol novolac resin. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 102, 4430-4439  | 2.9 | 34  |
| 15 | Barrier properties for short-fiber-reinforced epoxy foams. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 102, 3266-3272   | 2.9 | 5   |
| 14 | Cellulose micro/nanocrystals reinforced polyurethane. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 870-881  | 2.5 | 193 |
| 13 | Short-fiber-reinforced epoxy foams. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2006</b> , 37, 1952-1960   | 8.4 | 91  |
| 12 | Improving the dispersion and flexural strength of multiwalled carbon nanotubes/stiff epoxy composites through hydroxyester surface functionalization coupled with the anionic homopolymerization of the epoxy matrix. <i>European Polymer Journal</i> , <b>2006</b> , 42, 2765-2772 | 5.2 | 45  |
| 11 | Modeling the compressive properties of glass fiber reinforced epoxy foam using the analysis of variance approach. <i>Composites Science and Technology</i> , <b>2006</b> , 66, 2126-2134  | 8.6 | 22  |
| 10 | Effect of Mesophase Order on the Dynamics of Side Group Liquid Crystalline Polymers. <i>Macromolecules</i> , <b>2005</b> , 38, 6946-6953  | 5.5 | 14  |

- 9 Thermodynamic, morphological, mechanical and fracture properties of poly(methyl methacrylate)(PMMA) modified divinylester(DVE)/styrene(St) thermosets. *Polymer*, **2005**, 46, 2306-2319<sup>3.9</sup> 13
- 8 Molecular orientation of a commercial thermotropic liquid crystalline polymer in simple shear and complex flow. *Rheologica Acta*, **2005**, 44, 446-456 2.3 15
- 7 Morphology of rubber-modified vinyl ester resins cured at different temperatures. *Journal of Applied Polymer Science*, **2003**, 89, 274-283 2.9 15
- 6 Liquid rubber modified vinyl ester resins: fracture and mechanical behavior. *Polymer*, **2001**, 42, 3723-3730<sup>3.9</sup> 64
- 5 Quasibinary and quasiternary styrene, dimethacrylate resin, and CTBN (or VTBN) liquid rubber systems: phase diagrams, interaction parameters and cured materials morphologies. *Polymer*, **2001**, 42, 6503-6513 3.9 12
- 4 Analysis of a styrene-divinylester copolymerization: reaction heats, double bond conversions and average sequence lengths. *Polymer*, **2000**, 41, 3317-3329 3.9 3
- 3 Curing kinetics of divinyl ester resins with styrene. *Journal of Applied Polymer Science*, **1999**, 74, 1044-1053<sup>3</sup> 22
- 2 Epoxy-based divinyl ester resin/styrene copolymers: Composition dependence of the mechanical and thermal properties. *Journal of Applied Polymer Science*, **1997**, 66, 1059-1066 2.9 28
- 1 Comparative Study of The Effects of Cellulose Nanowhiskers and Microcrystalline Cellulose Addition as Reinforcement in Flexible Films Based on Biopolymer Blends<sup>409-416</sup>