

# Maria L. Auad

## List of Publications by Citations

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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	Cellulose micro/nanocrystals reinforced polyurethane. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 870-881	2.5	193
79	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
78	Characterization of nanocellulose- reinforced shape memory polyurethanes. <i>Polymer International</i> , <b>2008</b> , 57, 651-659	3.3	146
77	Short-fiber-reinforced epoxy foams. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2006</b> , 37, 1952-1960	8.4	91
76	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
75	Liquid rubber modified vinyl ester resins: fracture and mechanical behavior. <i>Polymer</i> , <b>2001</b> , 42, 3723-3730	9.9	64
74	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
73	Preparation of alginate-chitosan fibers with potential biomedical applications. <i>Carbohydrate Polymers</i> , <b>2015</b> , 134, 598-608	10.3	60
72	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
71	Polyaniline-modified cellulose nanofibrils as reinforcement of a smart polyurethane. <i>Polymer International</i> , <b>2011</b> , 60, 743-750	3.3	49
70	Biopolymers as a sustainable solution for the enhancement of soil mechanical properties. <i>Scientific Reports</i> , <b>2020</b> , 10, 267	4.9	46
69	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
68	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
67	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
66	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
65	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
64	Mechanical Behavior of Hybrid Composite Phenolic Foam. <i>Journal of Cellular Plastics</i> , <b>2008</b> , 44, 15-36	1.5	33

63	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
62	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
61	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
60	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
59	Epoxy-based divinyl ester resin/styrene copolymers: Composition dependence of the mechanical and thermal properties. <i>Journal of Applied Polymer Science</i> , <b>1997</b> , 66, 1059-1066	2.9	28
58	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
57	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
56	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
55	Curing kinetics of divinyl ester resins with styrene. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 74, 1044-1053	2.2	22
54	Photocurrent generation from porphyrin/fullerene complexes assembled in a tethered lipid bilayer. <i>Langmuir</i> , <b>2010</b> , 26, 15671-9	4	18
53	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
52	Shear-Induced Alignment of Smectic Side Group Liquid Crystalline Polymers. <i>Macromolecules</i> , <b>2007</b> , 40, 6624-6630	5.5	17
51	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
50	Morphology of rubber-modified vinyl ester resins cured at different temperatures. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 89, 274-283	2.9	15
49	Molecular orientation of a commercial thermotropic liquid crystalline polymer in simple shear and complex flow. <i>Rheologica Acta</i> , <b>2005</b> , 44, 446-456	2.3	15
48	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
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	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

45	Thermodynamic, morphological, mechanical and fracture properties of poly(methyl methacrylate)(PMMA) modified divinylester(DVE)/styrene(St) thermosets. <i>Polymer</i> , <b>2005</b> , 46, 2306-2319 <sup>3,9</sup>		13
44	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
43	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
42	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
41	Quasibinary and quasiternary styrene, dimethacrylate resin, and CTBN (or VTBN) liquid rubber systems: phase diagrams, interaction parameters and cured materials morphologies. <i>Polymer</i> , <b>2001</b> , 42, 6503-6513	3.9	12
40	Study of nanoreinforced shape memory polymers processed by casting and extrusion. <i>Polymer Composites</i> , <b>2011</b> , 32, 455-463	3	11
39	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
38	Synthesis and characterization of epoxy resins from fast pyrolysis bio-oil. <i>Green Materials</i> , <b>2018</b> , 6, 76-84 <sup>3,2</sup>		9
37	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
36	Sustainable products from bio-oils. <i>MRS Bulletin</i> , <b>2017</b> , 42, 365-370	3.2	7
35	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
34	Effect of SWCNT dispersion on epoxy nanocomposite properties. <i>Polymer Composites</i> , <b>2012</b> , 33, 582-588 <sup>3</sup>		7
33	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
32	Synthesis and Characterization of High Performance Interpenetrating Polymer Networks With Polyurethane and Poly(methyl methacrylate) <b>2019</b> , 243-255		6
31	Model Lignin Oligomer Pyrolysis: Coupled Conformational and Thermodynamic Analysis of E <sub>0</sub> -4? Bond Cleavage. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 9709-9724	4.1	6
30	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
29	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
28	Barrier properties for short-fiber-reinforced epoxy foams. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 102, 3266-3272	2.9	5

27	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
26	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
25	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
24	Synthesis and Characterization of Interpenetrating Polymer Networks (IPNs) from Acrylated Soybean Oil and 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
23	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
22	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
21	Efficacy of Gold Photothermal-Activated Shape Memory Polyurethane. <i>Journal of Nanomaterials</i> , <b>2020</b> , 2020, 1-8	3.2	3
20	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
19	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
18	Analysis of a styrene divinylester copolymerization: reaction heats, double bond conversions and average sequence lengths. <i>Polymer</i> , <b>2000</b> , 41, 3317-3329	3.9	3
17	Responsive Nanocellulose Composites. <i>Materials and Energy</i> , <b>2014</b> , 181-199		2
16	PIT MEMBRANES OF EPHEDRA RESEMBLE GYMNOSPERMS MORE THAN ANGIOSPERMS. <i>IAWA Journal</i> , <b>2014</b> , 35, 217-235	2.3	2
15	Effect of Active Layer Morphology on Poly(3-Hexylthiophene) Phytochemical Chemiresistor Sensor Performance. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 3062-3068	4	2
14	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
13	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
12	Material Design for Enhancing Properties of 3D Printed Polymer Composites for Target Applications. <i>Technologies</i> , <b>2022</b> , 10, 45	2.4	2
11	Pit membranes and their evolution in the Oleinae of the Oleaceae. <i>IAWA Journal</i> , <b>2017</b> , 38, 201-219	2.3	1
10	Synthesis and Characterization of Chanar Gum Films. <i>Colloids and Interfaces</i> , <b>2022</b> , 6, 10	3	1

9	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
8	Simple functionalization of cellulose beads with pre-propargylated chitosan for clickable scaffold substrates. <i>Cellulose</i> , <b>2021</b> , 28, 6073	5.5	1
7	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
6	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
5	Polyurethanes Reinforced with Cellulose <b>2014</b> , 65-88		
4	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	
3	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		
2	Comparative Study of The Effects of Cellulose Nanowhiskers and Microcrystalline Cellulose Addition as Reinforcement in Flexible Films Based on Biopolymer Blends 409-416		
1	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	