

# Denis Rodrigue

## 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.

329  
papers

6,546  
citations

39  
h-index

63  
g-index

346  
ext. papers

7,825  
ext. citations

2.9  
avg, IF

6.75  
L-index

#	Paper	IF	Citations
329	High purity softwood lignin obtained by an eco-friendly organosolv process. <i>Bioresource Technology Reports</i> , <b>2022</b> , 17, 100880	4.1	3
328	Phase morphology, mechanical, and thermal properties of fiber-reinforced thermoplastic elastomer: Effects of blend composition and compatibilization.. <i>Journal of Reinforced Plastics and Composites</i> , <b>2022</b> , 41, 267-283	2.9	1
327	Morphological, thermal and mechanical properties of recycled HDPE foams via rotational molding.. <i>Journal of Cellular Plastics</i> , <b>2022</b> , 58, 305-323	1.5	2
326	Mechanical fatigue of biodegradable polymers: A study on polylactic acid (PLA), polybutylene succinate (PBS) and polybutylene adipate terephthalate (PBAT). <i>International Journal of Fatigue</i> , <b>2022</b> , 159, 106798	5	0
325	High-performance thermal insulator based on polymer foam and silica xerogel. <i>Polymer Engineering and Science</i> , <b>2022</b> , 62, 637-647	2.3	0
324	An Overview of Extrusion as a Pretreatment Method of Lignocellulosic Biomass. <i>Energies</i> , <b>2022</b> , 15, 3002	3.1	0
323	A Low-Cost Porous Polymer Membrane for Gas Permeation. <i>Materials</i> , <b>2022</b> , 15, 3537	3.5	0
322	Production and Characterization of Gelatin Biomaterials Based on Agave Microfibers and Bentonite as Reinforcements. <i>Foods</i> , <b>2022</b> , 11, 1573	4.9	1
321	CO <sub>2</sub> -Selective Mixed Matrix Membranes of Bimetallic Zn/Co-ZIF vs. ZIF-8 and ZIF-67. <i>Separation and Purification Technology</i> , <b>2022</b> , 121391	8.3	1
320	Nonlinear mechanical behavior of elastomers under tension/tension fatigue deformation as determined by Fourier transform. <i>Rheologica Acta</i> , <b>2021</b> , 60, 787	2.3	1
319	Multifunctional poly(vinylidene fluoride) and styrene butadiene rubber blend magneto-responsive nanocomposites based on hybrid graphene oxide and Fe <sub>3</sub> O <sub>4</sub> : synthesis, preparation and characterization. <i>Journal of Polymer Research</i> , <b>2021</b> , 28, 1	2.7	1
318	Tensile properties of anisotropic foamed polyethylene films with ellipsoidal closed cells. <i>Mechanics of Materials</i> , <b>2021</b> , 163, 104099	3.3	0
317	Rotational molding of compatibilized PA6/LLDPE blends. <i>Polymer Engineering and Science</i> , <b>2021</b> , 61, 1007-1012	3.1	0
316	Fourier Transform (FT) Analysis of the Stress as a Tool to Follow the Fatigue Behavior of Metals. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3549	2.6	1
315	Combining mechanical and thermal surface fourier transform analysis to follow the dynamic fatigue behavior of polymers. <i>Polymer Testing</i> , <b>2021</b> , 96, 107070	4.5	4
314	Effect of Temperature on the Viscoelastic Properties of Carbon Nanotube Reinforced Polypropylene Composites. <i>Advances in Materials Science and Engineering</i> , <b>2021</b> , 2021, 1-12	1.5	0
313	Universal Strain-Life Curve Exponents for Thermoplastics and Elastomers under Tension-Tension and Torsion. <i>Macromolecular Materials and Engineering</i> , <b>2021</b> , 306, 2100165	3.9	1

312	Morphological and Mechanical Properties of Thermoplastic Elastomers Based on Recycled High Density Polyethylene and Recycled Natural Rubber. <i>International Polymer Processing</i> , <b>2021</b> , 36, 156-164	1	3
311	Effect of multi-wall carbon nanotubes on the flexural performance of cement based composites. <i>Archives of Civil and Mechanical Engineering</i> , <b>2021</b> , 21, 1	3-4	2
310	Chemistry, Processing, Properties, and Applications of Rubber Foams. <i>Polymers</i> , <b>2021</b> , 13,	4-5	5
309	Evolution of the electrical resistivity at rest and during oscillatory shearing of co-continuous morphology (PP/PMMA)/MWCNT systems. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 51343	2-9	
308	Effect of Wood Fiber Surface Treatment on the Properties of Recycled HDPE/Maple Fiber Composites. <i>Journal of Composites Science</i> , <b>2021</b> , 5, 177	3	1
307	Effect of Ground Tire Rubber (GTR) Particle Size and Content on the Morphological and Mechanical Properties of Recycled High-Density Polyethylene (rHDPE)/GTR Blends. <i>Recycling</i> , <b>2021</b> , 6, 44	3-2	6
306	Effect of particle size, fiber content, and surface treatment on the mechanical properties of maple-reinforced LLDPE produced by rotational molding. <i>Polymers and Polymer Composites</i> , <b>2021</b> , 29, 343-353	0-8	2
305	Gas transport properties of cellular hollow fiber membranes based on LLDPE/LDPE blends. <i>Frontiers in Forests and Global Change</i> , <b>2021</b> , 40, 119-140	1-6	
304	Biodegradability and improved mechanical performance of polyhydroxyalkanoates/agave fiber biocomposites compatibilized by different strategies. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50182	2-9	12
303	Characterization and numerical simulation of laminated glass fiber/polyester composites for a prosthetic running blade. <i>Journal of Reinforced Plastics and Composites</i> , <b>2021</b> , 40, 118-133	2-9	2
302	Fiber-matrix interface improvement via glycidyl methacrylate compatibilization for rotomolded poly(lactic acid)/agave fiber biocomposites. <i>Journal of Composite Materials</i> , <b>2021</b> , 55, 201-212	2-7	5
301	Melting of alkane nanocrystals: towards a representation of polyethylene. <i>Molecular Simulation</i> , <b>2021</b> , 47, 900-904	2	3
300	Fourier transform fatigue analysis of the stress in tension/tension of HDPE and PA6. <i>Polymer Engineering and Science</i> , <b>2021</b> , 61, 993-1006	2-3	3
299	Investigation of the Gibbs-Thomson law under high pressure using all-atom simulation. <i>Polymer</i> , <b>2021</b> , 213, 123321	3-9	
298	Effect of surface modification and fiber content on the mechanical performance of compression molded polyethylene-maple composites. <i>Polymer Composites</i> , <b>2021</b> , 42, 1977-1987	3	2
297	Assessment of thermo-mechanical, dye discoloration, and hygroscopic behavior of hybrid composites based on polypropylene/clay (illite)/TiO <sub>2</sub> . <i>International Journal of Advanced Manufacturing Technology</i> , <b>2021</b> , 113, 2615-2628	3-2	8
296	Mechanical Properties and Thermal Conductivity of Epoxy Resin Reinforced with Functionalized Graphene Nanosheets and Woven Glass Fabric. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2000989	3-5	2
295	Behavior of polyethylene composites based on hemp fibers treated by surface-initiated catalytic polymerization. <i>Polymer Composites</i> , <b>2021</b> , 42, 2334-2348	3	2

294	Mixed matrix membranes based on NH <sub>2</sub> -MIL-53 (Al) and 6FDA-ODA polyimide for CO <sub>2</sub> separation: Effect of the processing route on improving MOF-polymer interfacial interaction. <i>Separation and Purification Technology</i> , <b>2021</b> , 270, 118786	8.3	12
293	Effect of immobilizing ionic liquid on amine-functionalized MIL-101(Cr) incorporated in Matrimid membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2021</b> , 168, 108590	3.7	7
292	Rotational Molding of Poly(Lactic Acid)/Polyethylene Blends: Effects of the Mixing Strategy on the Physical and Mechanical Properties. <i>Polymers</i> , <b>2021</b> , 13,	4.5	3
291	Hybrid nanocomposites based on cellulose nanocrystals/nanofibrils and carbon nanotubes: From preparation to applications <b>2021</b> , 65-98		1
290	Effect of Topology and Molecular Properties on the Rheology and Fatigue Behavior of Solid Polystyrene/Polyisoprene Di- and Triblock Copolymers. <i>Macromolecules</i> , <b>2020</b> , 53, 5572-5587	5.5	4
289	Towards novel super-elastic foams based on isoprene rubber: Preparation and characterization. <i>Polymers for Advanced Technologies</i> , <b>2020</b> , 31, 1508-1518	3.2	5
288	Properties of Poplar Fiber/PLA Composites: Comparison on the Effect of Maleic Anhydride and KH550 Modification of Poplar Fiber. <i>Polymers</i> , <b>2020</b> , 12,	4.5	6
287	Injection molding of short fiber thermoplastic bio-composites: Prediction of the fiber orientation. <i>Journal of Composite Materials</i> , <b>2020</b> , 54, 4787-4797	2.7	6
286	Piezoelectric polymer films: synthesis, applications, and modeling <b>2020</b> , 79-101		0
285	Morphological and Mechanical Properties of Bilayers Wood-Plastic Composites and Foams Obtained by Rotational Molding. <i>Polymers</i> , <b>2020</b> , 12,	4.5	11
284	Magnetic soft silicone elastomers with tunable mechanical properties for magnetically actuated devices. <i>Polymers for Advanced Technologies</i> , <b>2020</b> , 31, 1414-1425	3.2	3
283	Waste Rubber Recycling: A Review on the Evolution and Properties of Thermoplastic Elastomers. <i>Materials</i> , <b>2020</b> , 13,	3.5	70
282	Production and characterization of fully biobased foamed films based on gelatin. <i>Frontiers in Forests and Global Change</i> , <b>2020</b> , 39, 69-97	1.6	3
281	Highly porous lignin composites for dye removal in batch and continuous-flow systems. <i>Materials Letters</i> , <b>2020</b> , 263, 127289	3.3	12
280	Experimental and finite element simulation of natural rubber foams using real 3D structures. <i>Polymer</i> , <b>2020</b> , 197, 122505	3.9	5
279	The Effect of Physical Aging on the Mechanical Properties of Raw, Treated and Compatibilized Coir Fibers-Based Polyisoprene Bio-Composites. <i>International Polymer Processing</i> , <b>2020</b> , 35, 429-439	1	1
278	The Effect of Physical Aging on the Mechanical Properties of Raw, Treated and Compatibilized Coir Fibers-Based Polyisoprene Bio-Composites. <i>International Polymer Processing</i> , <b>2020</b> , 35, 429-439	1	
277	Preparation and Characterization of Reduced Graphene Oxide Based Natural Rubber Nanocomposites. <i>International Polymer Processing</i> , <b>2020</b> , 35, 493-502	1	0

276	Improving the Compatibility and Mechanical Properties of Natural Fibers/Green Polyethylene Biocomposites Produced by Rotational Molding. <i>Journal of Polymers and the Environment</i> , <b>2020</b> , 28, 1040-1049	4.5	19
275	Cumulative nonlinearity as a parameter to quantify mechanical fatigue. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2020</b> , 43, 265-276	3	7
274	The effect of benzothiazolium surfactant modified montmorillonite content on the properties of polyamide 6 nanocomposites. <i>Applied Clay Science</i> , <b>2020</b> , 185, 105417	5.2	16
273	Mechanical and thermal properties of polyethylene/carbon nanofiber composites produced by rotational molding. <i>Polymer Composites</i> , <b>2020</b> , 41, 1224-1233	3	0
272	Ground tire rubber (GTR) surface modification using thiol-ene click reaction: Polystyrene grafting to modify a GTR/polystyrene (PS) blend. <i>Progress in Rubber, Plastics and Recycling Technology</i> , <b>2020</b> , 36, 81-101	1.7	5
271	A computational approach to evaluate the nonlinear and noisy DC electrical response in carbon nanotube/polymer nanocomposites near the percolation threshold. <i>Computational Materials Science</i> , <b>2020</b> , 173, 109439	3.2	2
270	Recycling Waste Tires into Ground Tire Rubber (GTR)/Rubber Compounds: A Review. <i>Journal of Composites Science</i> , <b>2020</b> , 4, 103	3	36
269	Compatibilization of PA6/ABS blend by SEBS-g-MA: morphological, mechanical, thermal, and rheological properties. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 110, 1095-1111	3.2	10
268	Comparison between ZIF-67 and ZIF-8 in Pebax <sup>®</sup> MH-1657 mixed matrix membranes for CO <sub>2</sub> separation. <i>Separation and Purification Technology</i> , <b>2020</b> , 235, 116150	8.3	39
267	Improved CO <sub>2</sub> transport properties of Matrimid membranes by adding amine-functionalized PVDF and MIL-101(Cr). <i>Separation and Purification Technology</i> , <b>2020</b> , 235, 116149	8.3	14
266	Fatigue analysis of brittle polymers via Fourier transform of the stress. <i>Mechanics of Materials</i> , <b>2019</b> , 137, 103100	3.3	9
265	Morphological, rheological, and mechanical properties of hybrid elastomeric foams based on natural rubber, nanoclay, and nanocarbon black. <i>Polymer Composites</i> , <b>2019</b> , 40, 4289-4299	3	11
264	Density graded polyethylene foams: Effect of processing conditions on mechanical properties. <i>Frontiers in Forests and Global Change</i> , <b>2019</b> , 38, 3-14	1.6	5
263	Thermoplastic vulcanizate nanocomposites based on polyethylene/reclaimed rubber: A correlation between carbon nanotube dispersion state and electrical percolation threshold. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47795	2.9	10
262	Injection molding of short coir fiber polypropylene biocomposites: Prediction of the mold filling phase. <i>Polymer Composites</i> , <b>2019</b> , 40, 4042-4055	3	11
261	Properties of Nano-composites Based on Different Clays and Polyamide 6/Acrylonitrile Butadiene Styrene Blends <b>2019</b> , 107-128		5
260	Comparison between polyethylene glycol and tributyl citrate to modify the properties of wood fiber/polylactic acid biocomposites. <i>Polymer Composites</i> , <b>2019</b> , 40, 1384-1394	3	11
259	Mechanical properties prediction of polypropylene/short coir fibers composites using a self-consistent approach. <i>Polymer Composites</i> , <b>2019</b> , 40, 1919-1929	3	15

258	A Review on Porous Polymeric Membrane Preparation. Part II: Production Techniques with Polyethylene, Polydimethylsiloxane, Polypropylene, Polyimide, and Polytetrafluoroethylene. <i>Polymers</i> , <b>2019</b> , 11,	4.5	70
257	A Review on Porous Polymeric Membrane Preparation. Part I: Production Techniques with Polysulfone and Poly (Vinylidene Fluoride). <i>Polymers</i> , <b>2019</b> , 11,	4.5	119
256	A Comparison between Sabra and Alfa Fibers in Rubber Biocomposites. <i>Journal of Bionic Engineering</i> , <b>2019</b> , 16, 754-767	2.7	16
255	Thermally stable cellular poly(vinylidene) ferroelectrets: Optimization of CO2 driven inflation process. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47929	2.9	0
254	N-Silylated Benzothiazolium Dye as a Coupling Agent for Polylactic Acid/Date Palm Fiber Bio-composites. <i>Journal of Polymers and the Environment</i> , <b>2019</b> , 27, 2974-2987	4.5	17
253	Polymer hollow fiber membranes for gas separation: A comparison between three commercial resins <b>2019</b> ,		4
252	Polyurethane Foams Reinforced with Biobased Materials: Properties and Applications. <i>Current Applied Polymer Science</i> , <b>2019</b> , 3, 14-29	0.2	
251	Time and thermal stability improvement of polyethylene ferroelectrets. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47646	2.9	5
250	Rotomolding of Thermoplastic Elastomers Based on Low-Density Polyethylene and Recycled Natural Rubber. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 5430	2.6	20
249	Piezoelectric property improvement of polyethylene ferroelectrets using postprocessing thermal-pressure treatment. <i>Polymers for Advanced Technologies</i> , <b>2019</b> , 30, 153-161	3.2	9
248	Effect of the inflation strategy on the piezoelectric response of cellular poly(vinylidene fluoride) ferroelectret. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47540	2.9	4
247	Effect of Maleated PLA on the Properties of Rotomolded PLA-Agave Fiber Biocomposites. <i>Journal of Polymers and the Environment</i> , <b>2019</b> , 27, 61-73	4.5	33
246	Effect of surface treatment on the physical and mechanical properties of injection molded poly(lactic acid)-coir fiber biocomposites. <i>Polymer Composites</i> , <b>2019</b> , 40, 2132-2141	3	13
245	Enhancing CO2 separation performance of Pebax <sup>®</sup> MH-1657 with aromatic carboxylic acids. <i>Separation and Purification Technology</i> , <b>2019</b> , 212, 901-912	8.3	27
244	Surface modification of cellulosic materials for polyethylene composite applications. <i>Polymer Composites</i> , <b>2019</b> , 40, E202	3	5
243	Mixed matrix membranes based on amine and non-amine MIL-53(Al) in Pebax <sup>®</sup> MH-1657 for CO2 separation. <i>Separation and Purification Technology</i> , <b>2018</b> , 200, 177-190	8.3	119
242	Effect of glass bead size and content on the thermomechanical properties of polyethylene composites. <i>Polymer Engineering and Science</i> , <b>2018</b> , 58, 1826-1836	2.3	7
241	Influence of molecular properties on the mechanical fatigue of polystyrene (PS) analyzed via Wübler curves and Fourier Transform rheology. <i>Polymer</i> , <b>2018</b> , 138, 1-7	3.9	15



240	Polylactic acid-agave fiber biocomposites produced by rotational molding: A comparative study with compression molding. <i>Advances in Polymer Technology</i> , <b>2018</b> , 37, 2528-2540	1.9	33
239	Impact of compression molding conditions on the thermal and mechanical properties of polyethylene. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46176	2.9	4
238	Simulation of gas separation using partial element stage cut modeling of hollow fiber membrane modules. <i>AIChE Journal</i> , <b>2018</b> , 64, 1766-1777	3.6	10
237	Rheological behavior of composites made from linear medium-density polyethylene and hemp fibers treated by surface-initiated catalytic polymerization. <i>Rheologica Acta</i> , <b>2018</b> , 57, 445-457	2.3	2
236	AC and DC electrical behavior of MWCNT/epoxy nanocomposite near percolation threshold: Equivalent circuits and percolation limits. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 105109	2.5	13
235	Characterization of PLA-talc films using NIR chemical imaging and Multivariate Image Analysis techniques. <i>Polymer Testing</i> , <b>2018</b> , 68, 61-69	4.5	6
234	Cellular Polymer Ferroelectret: A Review on Their Development and Their Piezoelectric Properties. <i>Advances in Polymer Technology</i> , <b>2018</b> , 37, 468-483	1.9	46
233	Morphological, thermal, mechanical, and rheological properties of high density polyethylene reinforced with Illite clay. <i>Polymer Composites</i> , <b>2018</b> , 39, 1522-1533	3	19
232	Effect of nylon 6 (PA6) addition on the properties of glass fiber reinforced acrylonitrile-butadiene-styrene. <i>Polymer Composites</i> , <b>2018</b> , 39, 14-21	3	11
231	Morphological, mechanical, and thermal properties of injection molded polylactic acid foams/composites based on wood flour. <i>Journal of Cellular Plastics</i> , <b>2018</b> , 54, 179-197	1.5	7
230	Graphene/montmorillonite hybrid nanocomposites based on polypropylene: Morphological, mechanical, and rheological properties. <i>Polymer Composites</i> , <b>2018</b> , 39, 2046-2053	3	10
229	Correlation between Performances of Hollow Fibers and Flat Membranes for Gas Separation. <i>Separation and Purification Reviews</i> , <b>2018</b> , 47, 66-87	7.3	6
228	Influence of graphene oxide and graphene nanosheet on the properties of polyvinylidene fluoride nanocomposites. <i>Polymer Composites</i> , <b>2018</b> , 39, 2932-2941	3	18
227	Polymerization compounding of hemp fibers to improve the mechanical properties of linear medium density polyethylene composites. <i>Polymer Composites</i> , <b>2018</b> , 39, 2860-2870	3	4
226	Energy absorption capacity of ferroelectrets based on porous polypropylene. <i>Polymer Engineering and Science</i> , <b>2018</b> , 58, 300-309	2.3	7
225	Mixed matrix membranes based on silica nanoparticles and microcellular polymers for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Journal of Cellular Plastics</i> , <b>2018</b> , 54, 309-331	1.5	19
224	Rotational molding of self-hybrid composites based on linear low-density polyethylene and maple fibers. <i>Polymer Composites</i> , <b>2018</b> , 39, 4094-4103	3	13
223	Alfa fibers/clay hybrid composites based on polypropylene: Mechanical, thermal, and structural properties. <i>Journal of Thermoplastic Composite Materials</i> , <b>2018</b> , 31, 974-991	1.9	19

222	Reprocessing of the composites based on the poly(lactic acid) loaded with olive husk flour <b>2018</b> ,		1
221	Gas transport and mechanical properties of PDMS-TFS/LDPE nanocomposite membranes. <i>Journal of Polymer Research</i> , <b>2018</b> , 25, 1	2.7	3
220	Rheological characterization of polyethylene/polyester recycled tire fibers/ground tire rubber composites. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46563	2.9	7
219	Permeability and thermal properties of PDMS/LDPE multilayer composite membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2018</b> , 56, 1045-1052	2.6	2
218	Piezoelectric cellular polymer films: Fabrication, properties and applications. <i>AIMS Materials Science</i> , <b>2018</b> , 5, 845-869	1.9	17
217	Rotomolding of Foamed and Unfoamed GTR-LLDPE Blends: Mechanical, Morphological and Physical Properties. <i>Frontiers in Forests and Global Change</i> , <b>2018</b> , 37, 55-68	1.6	11
216	Hollow Fiber Porous Nanocomposite Membranes Produced via Continuous Extrusion: Morphology and Gas Transport Properties. <i>Materials</i> , <b>2018</b> , 11,	3.5	3
215	Accelerated Ageing of Alkali Treated Olive Husk Flour Reinforced Polylactic Acid (PLA) Biocomposites: Physico-Mechanical Properties. <i>Polymers and Polymer Composites</i> , <b>2018</b> , 26, 223-232	0.8	6
214	Long-term closed-loop recycling of high-density polyethylene/flax composites. <i>Progress in Rubber, Plastics and Recycling Technology</i> , <b>2018</b> , 34, 171-199	1.7	6
213	Effect of processing conditions on the cellular morphology of polyethylene hollow fiber foams for membrane applications. <i>Frontiers in Forests and Global Change</i> , <b>2018</b> , 37, 169-188	1.6	4
212	The effect of polyester recycled tire fibers mixed with ground tire rubber on polyethylene composites. Part II: Physico-mechanical analysis. <i>Progress in Rubber, Plastics and Recycling Technology</i> , <b>2018</b> , 34, 128-142	1.7	12
211	Optimization of the cellular morphology of biaxially stretched thin polyethylene foams produced by extrusion film blowing. <i>Frontiers in Forests and Global Change</i> , <b>2018</b> , 37, 153-168	1.6	15
210	Morphology and Mechanical Properties of Maple Reinforced LLDPE Produced by Rotational Moulding: Effect of Fibre Content and Surface Treatment. <i>Polymers and Polymer Composites</i> , <b>2018</b> , 26, 299-308	0.8	18
209	Production of Thermoplastic Elastomers Based on Recycled PE and Ground Tire Rubber: Morphology, Mechanical Properties and Effect of Compatibilizer Addition. <i>International Polymer Processing</i> , <b>2018</b> , 33, 525-534	1	22
208	Production and Characterization of High Density Polyethylene Reinforced by Eucalyptus Capsule Fibers. <i>Journal of Bionic Engineering</i> , <b>2018</b> , 15, 558-566	2.7	10
207	Fatigue life prediction via the time-dependent evolution of linear and nonlinear mechanical parameters determined via Fourier transform of the stress. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46634	2.9	8
206	Facile production of biodegradable PCL/PLA in situ nanofibrillar composites with unprecedented compatibility between the blend components. <i>Chemical Engineering Journal</i> , <b>2018</b> , 351, 976-984	14.7	52
205	Thermal analysis of foamed polyethylene rotational molding followed by internal air temperature profiles. <i>Polymer Engineering and Science</i> , <b>2018</b> , 58, E235-E241	2.3	8



204	Effect of fiber content and surface treatment on the mechanical properties of natural fiber composites produced by rotomolding. <i>Composite Interfaces</i> , <b>2017</b> , 24, 35-53	2.3	53
203	Morphological, physical and mechanical properties of nanocrystalline cellulose filled Nylon 6 foams. <i>Journal of Cellular Plastics</i> , <b>2017</b> , 53, 253-271	1.5	13
202	Effect of agave fiber surface treatment on the properties of polyethylene composites produced by dry-blending and compression molding. <i>Polymer Composites</i> , <b>2017</b> , 38, 96-104	3	21
201	Production of Composite Membranes by Coupling Coating and Melt Extrusion/Salt Leaching. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 1306-1315	3.9	7
200	Mechanical, thermal, and rheological properties of polypropylene hybrid composites based clay and graphite. <i>Journal of Composite Materials</i> , <b>2017</b> , 51, 3563-3576	2.7	34
199	Enhanced electroactive phase in three phase PVDF/CaCO <sub>3</sub> /nanoclay composites: Effect of micro-CaCO <sub>3</sub> and uniaxial stretching. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	23
198	Fatigue behavior of polystyrene (PS) analyzed from the Fourier transform (FT) of stress response: First evidence of I2/1(N) and I3/1(N) as new fingerprints. <i>Polymer Testing</i> , <b>2017</b> , 60, 343-350	4.5	22
197	Bio-composites based on polylactic acid and argan nut shell: Production and properties. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 104, 30-42	7.9	61
196	Effect of annealing on gas permeability and mechanical properties of polylactic acid/talc composite films. <i>Journal of Plastic Film and Sheeting</i> , <b>2017</b> , 33, 361-383	2.4	9
195	Amine-functionalized CuBTC/poly(ether-b-amide-6) (Pebax <sup>®</sup> MH 1657) mixed matrix membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Canadian Journal of Chemical Engineering</i> , <b>2017</b> , 95, 2024-2033	2.3	41
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191	Polymer ferroelectret based on polypropylene foam: piezoelectric properties prediction using dynamic mechanical analysis. <i>Polymers for Advanced Technologies</i> , <b>2017</b> , 28, 476-483	3.2	13
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183	Auto-hybridization of Polyethylene/Maple Composites: The Effect of Fiber Size and Concentration. <i>Polymers and Polymer Composites</i> , <b>2017</b> , 25, 471-482	0.8	
182	Recent Advances in Polymer Recycling: A Short Review. <i>Current Organic Synthesis</i> , <b>2017</b> , 14, 171-185	1.9	10
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180	Asymmetric microcellular composites: Mechanical properties and modulus prediction. <i>Journal of Cellular Plastics</i> , <b>2016</b> , 52, 365-398	1.5	7
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