

# Jos Mara Kenny

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/636056/jose-maria-kenny-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

665  
papers

30,307  
citations

90  
h-index

140  
g-index

699  
ext. papers

33,784  
ext. citations

4.7  
avg, IF

7.39  
L-index

#	Paper	IF	Citations
665	Production of nanocrystalline cellulose from lignocellulosic biomass: technology and applications. <i>Carbohydrate Polymers</i> , <b>2013</b> , 94, 154-69	10.3	743
664	Biodegradable polymer matrix nanocomposites for tissue engineering: A review. <i>Polymer Degradation and Stability</i> , <b>2010</b> , 95, 2126-2146	4.7	719
663	Thermal and mechanical properties of single-walled carbon nanotubes/polypropylene composites prepared by melt processing. <i>Carbon</i> , <b>2005</b> , 43, 1499-1505	10.4	536
662	Multifunctional bionanocomposite films of poly(lactic acid), cellulose nanocrystals and silver nanoparticles. <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 1596-1605	10.3	458
661	Sensors for sub-ppm NO <sub>2</sub> gas detection based on carbon nanotube thin films. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 961-963	3.4	434
660	Multifunctional nanostructured PLA materials for packaging and tissue engineering. <i>Progress in Polymer Science</i> , <b>2013</b> , 38, 1720-1747	29.6	421
659	Effects of modified cellulose nanocrystals on the barrier and migration properties of PLA nano-biocomposites. <i>Carbohydrate Polymers</i> , <b>2012</b> , 90, 948-56	10.3	357
658	Morphological, thermal and mechanical characterization of okra ( <i>Abelmoschus esculentus</i> ) fibres as potential reinforcement in polymer composites. <i>Composites Science and Technology</i> , <b>2010</b> , 70, 116-122	8.6	347
657	The Alpha Magnetic Spectrometer (AMS) on the International Space Station: Part I [results from the test flight on the space shuttle. <i>Physics Reports</i> , <b>2002</b> , 366, 331-405	27.7	328
656	Physical, structural and antimicrobial properties of poly vinyl alcohol/chitosan biodegradable films. <i>Food Hydrocolloids</i> , <b>2014</b> , 35, 463-470	10.6	285
655	A Review on Natural Fibre-Based Composites-Part I. <i>Journal of Natural Fibers</i> , <b>2004</b> , 1, 37-68	1.8	252
654	A Review on Natural Fibre-Based Composites-Part II. <i>Journal of Natural Fibers</i> , <b>2005</b> , 1, 23-65	1.8	244
653	Cosmic protons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2000</b> , 490, 27-35	4.2	236
652	Bionanocomposite films based on plasticized PLA-PHB/cellulose nanocrystal blends. <i>Carbohydrate Polymers</i> , <b>2015</b> , 121, 265-75	10.3	233
651	Effect of nanoparticles on heat capacity of nanofluids based on molten salts as PCM for thermal energy storage. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 448	5	230
650	Antioxidant and antibacterial lignin nanoparticles in polyvinyl alcohol/chitosan films for active packaging. <i>Industrial Crops and Products</i> , <b>2016</b> , 94, 800-811	5.9	206
649	PLA-PHB/cellulose based films: Mechanical, barrier and disintegration properties. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 107, 139-149	4.7	204

648	Multifunctional PLA-PHB/cellulose nanocrystal films: processing, structural and thermal properties. <i>Carbohydrate Polymers</i> , <b>2014</b> , 107, 16-24	10.3	200
647	NO <sub>2</sub> and CO gas adsorption on carbon nanotubes: Experiment and theory. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 10904-10910	3.9	199
646	Leptons in near earth orbit. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2000</b> , 484, 10-22	4.2	198
645	Morphological characterization of single-walled carbon nanotubes-PP composites. <i>Composites Science and Technology</i> , <b>2003</b> , 63, 1149-1153	8.6	186
644	Investigations on scalable fabrication procedures for self-sensing carbon nanotube cement-matrix composites for SHM applications. <i>Cement and Concrete Composites</i> , <b>2016</b> , 65, 200-213	8.6	183
643	Microstructure and nonisothermal cold crystallization of PLA composites based on silver nanoparticles and nanocrystalline cellulose. <i>Polymer Degradation and Stability</i> , <b>2012</b> , 97, 2027-2036	4.7	171
642	Processing of nanostructured polymers and advanced polymeric based nanocomposites. <i>Materials Science and Engineering Reports</i> , <b>2014</b> , 85, 1-46	30.9	165
641	Combined effects of cellulose nanocrystals and silver nanoparticles on the barrier and migration properties of PLA nano-biocomposites. <i>Journal of Food Engineering</i> , <b>2013</b> , 118, 117-124	6	163
640	Science and technology of polymeric ablative materials for thermal protection systems and propulsion devices: A review. <i>Progress in Materials Science</i> , <b>2016</b> , 84, 192-275	42.2	159
639	Stem cell-biomaterial interactions for regenerative medicine. <i>Biotechnology Advances</i> , <b>2012</b> , 30, 338-51	17.8	157
638	Polyvinyl alcohol/chitosan hydrogels with enhanced antioxidant and antibacterial properties induced by lignin nanoparticles. <i>Carbohydrate Polymers</i> , <b>2018</b> , 181, 275-284	10.3	156
637	Synergic effect of cellulose and lignin nanostructures in PLA based systems for food antibacterial packaging. <i>European Polymer Journal</i> , <b>2016</b> , 79, 1-12	5.2	155
636	Design of biodegradable blends based on PLA and PCL: From morphological, thermal and mechanical studies to shape memory behavior. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 132, 97-108	4.7	153
635	NO <sub>2</sub> gas sensitivity of carbon nanotubes obtained by plasma enhanced chemical vapor deposition. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 93, 333-337	8.5	150
634	Crystallization and Melting Behavior of Poly(3-butylthiophene), Poly(3-octylthiophene), and Poly(3-dodecylthiophene). <i>Macromolecules</i> , <b>2005</b> , 38, 409-415	5.5	149
633	Effect of chemical treatments on the mechanical and thermal behaviour of okra ( <i>Abelmoschus esculentus</i> ) fibres. <i>Composites Science and Technology</i> , <b>2011</b> , 71, 246-254	8.6	148
632	Effects of chitosan on the physicochemical and antimicrobial properties of PLA films. <i>Journal of Food Engineering</i> , <b>2013</b> , 119, 236-243	6	147
631	Production and characterization of PLA_PBS biodegradable blends reinforced with cellulose nanocrystals extracted from hemp fibres. <i>Industrial Crops and Products</i> , <b>2016</b> , 93, 276-289	5.9	146

630	Structure and properties of biodegradable wheat gluten bionanocomposites containing lignin nanoparticles. <i>Industrial Crops and Products</i> , <b>2015</b> , 74, 348-356	5.9	146
629	Morphology and properties tuning of PLA/cellulose nanocrystals bio-nanocomposites by means of reactive functionalization and blending with PVAc. <i>Polymer</i> , <b>2014</b> , 55, 3720-3728	3.9	143
628	Processing of PLA nanocomposites with cellulose nanocrystals extracted from <i>Posidonia oceanica</i> waste: Innovative reuse of coastal plant. <i>Industrial Crops and Products</i> , <b>2015</b> , 67, 439-447	5.9	143
627	Binary PVA bio-nanocomposites containing cellulose nanocrystals extracted from different natural sources: part I. <i>Carbohydrate Polymers</i> , <b>2013</b> , 97, 825-36	10.3	143
626	Nano-biocomposite films with modified cellulose nanocrystals and synthesized silver nanoparticles. <i>Carbohydrate Polymers</i> , <b>2014</b> , 101, 1122-33	10.3	136
625	Helium in near Earth orbit. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2000</b> , 494, 193-202	4.2	136
624	Investigation of thermo-mechanical, chemical and degradative properties of PLA-limonene films reinforced with cellulose nanocrystals extracted from <i>Phormium tenax</i> leaves. <i>European Polymer Journal</i> , <b>2014</b> , 56, 77-91	5.2	135
623	Plasma Fluorination of Chemically Derived Graphene Sheets and Subsequent Modification With Butylamine. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 3433-3438	9.6	135
622	Processing and characterization of plasticized PLA/PHB blends for biodegradable multiphase systems. <i>EXPRESS Polymer Letters</i> , <b>2015</b> , 9, 583-596	3.4	133
621	Cavitation wear behaviour of austenitic stainless steels with different grain sizes. <i>Wear</i> , <b>2005</b> , 258, 503-510	5.9	130
620	Dynamics in Polymer/Bilicate Nanocomposites As Studied by Dielectric Relaxation Spectroscopy and Dynamic Mechanical Spectroscopy. <i>Macromolecules</i> , <b>2006</b> , 39, 2172-2182	5.5	129
619	PLLA-grafted cellulose nanocrystals: Role of the CNC content and grafting on the PLA bionanocomposite film properties. <i>Carbohydrate Polymers</i> , <b>2016</b> , 142, 105-13	10.3	128
618	Effects of martensite formation and austenite reversion on grain refining of AISI 304 stainless steel. <i>Journal of Materials Science</i> , <b>2002</b> , 37, 4561-4565	4.3	127
617	Valorization of Acid Isolated High Yield Lignin Nanoparticles as Innovative Antioxidant/Antimicrobial Organic Materials. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 3502-3514	8.3	125
616	Sensors for inorganic vapor detection based on carbon nanotubes and poly(o-anisidine) nanocomposite material. <i>Chemical Physics Letters</i> , <b>2004</b> , 383, 617-622	2.5	125
615	Highly sensitive and selective sensors based on carbon nanotubes thin films for molecular detection. <i>Diamond and Related Materials</i> , <b>2004</b> , 13, 1301-1305	3.5	125
614	Properties and ageing behaviour of pea starch films as affected by blend with poly(vinyl alcohol). <i>Food Hydrocolloids</i> , <b>2015</b> , 48, 84-93	10.6	124
613	Effects of single-walled carbon nanotubes on the crystallization behavior of polypropylene. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 87, 708-713	2.9	123

612	Morphology and electrical properties of graphene/epoxy nanocomposites obtained by different solvent assisted processing methods. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2013</b> , 46, 166-172	8.4	122
611	Analysis of the cure reaction of carbon nanotubes/epoxy resin composites through thermal analysis and Raman spectroscopy. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 88, 452-458	2.9	120
610	Determination of autocatalytic kinetic model parameters describing thermoset cure. <i>Journal of Applied Polymer Science</i> , <b>1994</b> , 51, 761-764	2.9	119
609	Sensitivity to NO <sub>2</sub> and cross-sensitivity analysis to NH <sub>3</sub> , ethanol and humidity of carbon nanotubes thin film prepared by PECVD. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 95, 195-202	8.5	118
608	Synthesis and characterization of PCL/PLLA polyurethane with shape memory behavior. <i>European Polymer Journal</i> , <b>2013</b> , 49, 893-903	5.2	117
607	Ablative properties of carbon black and MWNT/phenolic composites: A comparative study. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2012</b> , 43, 174-182	8.4	116
606	Dynamic mechanical and Raman spectroscopy studies on interaction between single-walled carbon nanotubes and natural rubber. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 92, 3394-3400	2.9	116
605	Physical and mechanical behavior of single-walled carbon nanotube/polypropylene/ethylene/propylene/ene rubber nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 89, 2657-2663	2.9	116
604	Development of flexible materials based on plasticized electrospun PLA/PHB blends: Structural, thermal, mechanical and disintegration properties. <i>European Polymer Journal</i> , <b>2015</b> , 73, 433-446	5.2	115
603	Carbon nanotubes as new materials for gas sensing applications. <i>Journal of the European Ceramic Society</i> , <b>2004</b> , 24, 1405-1408	6	115
602	Mechanical characterisation of hybrid composite laminates based on basalt fibres in combination with flax, hemp and glass fibres manufactured by vacuum infusion. <i>Materials &amp; Design</i> , <b>2013</b> , 49, 728-735		114
601	Degradation behaviour of a composite material for thermal protection systems Part I: Experimental characterization. <i>Journal of Materials Science</i> , <b>1998</b> , 33, 3137-3143	4.3	114
600	Role of defects on the gas sensing properties of carbon nanotubes thin films: experiment and theory. <i>Chemical Physics Letters</i> , <b>2004</b> , 387, 356-361	2.5	113
599	Mechanical characterization of polypropylene/wood flour composites. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 88, 1420-1428	2.9	110
598	Impact and post-impact damage characterisation of hybrid composite laminates based on basalt fibres in combination with flax, hemp and glass fibres manufactured by vacuum infusion. <i>Composites Part B: Engineering</i> , <b>2015</b> , 69, 507-515	10	109
597	The interaction of bacteria with engineered nanostructured polymeric materials: a review. <i>Scientific World Journal</i> , <b>2014</b> , 2014, 410423	2.2	108
596	Effect of temperature and nanoparticle type on hydrolytic degradation of poly(lactic acid) nanocomposites. <i>Polymer Degradation and Stability</i> , <b>2011</b> , 96, 2120-2129	4.7	108
595	Flax fiber surface modifications: Effects on fiber physico mechanical and flax/polypropylene interface properties. <i>Polymer Composites</i> , <b>2005</b> , 26, 324-332	3	108

594	Effect of processing conditions and lignin content on thermal, mechanical and degradative behavior of lignin nanoparticles/polylactic (acid) bionanocomposites prepared by melt extrusion and solvent casting. <i>European Polymer Journal</i> , <b>2015</b> , 71, 126-139	5.2	106
593	Effect of cellulose and lignin on disintegration, antimicrobial and antioxidant properties of PLA active films. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 89, 360-8	7.9	106
592	PVA bio-nanocomposites: a new take-off using cellulose nanocrystals and PLGA nanoparticles. <i>Carbohydrate Polymers</i> , <b>2014</b> , 99, 47-58	10.3	105
591	Cellulose nanocrystals extracted from okra fibers in PVA nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 128, 3220-3230	2.9	105
590	Development and thermal behaviour of ternary PLA matrix composites. <i>Polymer Degradation and Stability</i> , <b>2010</b> , 95, 2200-2206	4.7	104
589	The alignment of single walled carbon nanotubes in an epoxy resin by applying a DC electric field. <i>Carbon</i> , <b>2012</b> , 50, 2453-2464	10.4	102
588	Effects of single-walled carbon nanotube incorporation on the cure reaction of epoxy resin and its detection by Raman spectroscopy. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 827-832	3.5	102
587	The principles of dielectric measurements for in situ monitoring of composite processing. <i>Composites Science and Technology</i> , <b>1993</b> , 49, 277-290	8.6	102
586	Effect of silver nanoparticles and cellulose nanocrystals on electrospun poly(lactic) acid mats: morphology, thermal properties and mechanical behavior. <i>Carbohydrate Polymers</i> , <b>2014</b> , 103, 22-31	10.3	101
585	A novel method to prepare conductive nanocrystalline cellulose/graphene oxide composite films. <i>Materials Letters</i> , <b>2013</b> , 105, 4-7	3.3	100
584	Novel Anthracene-Core Molecule for the Development of Efficient PCBM-Based Solar Cells. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 32-34	9.6	99
583	Effects of carbon nanotubes on the crystallization behavior of polypropylene. <i>Polymer Engineering and Science</i> , <b>2004</b> , 44, 303-311	2.3	99
582	A systematic investigation on the influence of the chemical treatment of natural fibers on the properties of their polymer matrix composites. <i>Polymer Composites</i> , <b>2004</b> , 25, 470-479	3	95
581	Cure kinetics of neat and carbon-fiber-reinforced TGDDM/DDS epoxy systems. <i>Journal of Applied Polymer Science</i> , <b>1996</b> , 61, 1025-1037	2.9	94
580	A New Phase Change Material Based on Potassium Nitrate with Silica and Alumina Nanoparticles for Thermal Energy Storage. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 984	5	92
579	Use of butylamine modified graphene sheets in polymer solar cells. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 995-1000		92
578	Stimuli responsive hydrogels prepared by frontal polymerization. <i>Biomacromolecules</i> , <b>2009</b> , 10, 2672-7	6.9	90
577	Thermal and dynamic mechanical characterization of polypropylene-woodflour composites. <i>Polymer Engineering and Science</i> , <b>2002</b> , 42, 733-742	2.3	90



576	Biodegradable electrospun bionanocomposite fibers based on plasticized PLA/PBH blends reinforced with cellulose nanocrystals. <i>Industrial Crops and Products</i> , <b>2016</b> , 93, 290-301	5.9	89
575	Enhancement of mechanical properties and interfacial adhesion of PP/EPDM/flax fiber composites using maleic anhydride as a compatibilizer. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 90, 2170-2178	2.9	89
574	Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites part I. Processing and morphology. <i>Carbohydrate Polymers</i> , <b>2013</b> , 96, 611-20	10.3	88
573	Bagasse Fiber-Polypropylene Based Composites. <i>Journal of Thermoplastic Composite Materials</i> , <b>1999</b> , 12, 477-497	1.9	88
572	Effect of organically modified nanoclay on the miscibility, rheology, morphology and properties of epoxy/carboxyl-terminated (butadiene-co-acrylonitrile) blend. <i>Soft Matter</i> , <b>2013</b> , 9, 2899	3.6	87
571	Effect of the molecular weight on the crystallinity of PCL-b-PLLA di-block copolymers. <i>Polymer</i> , <b>2012</b> , 53, 4561-4568	3.9	86
570	Sidewall functionalization of single-walled carbon nanotubes through CF <sub>4</sub> plasma treatment and subsequent reaction with aliphatic amines. <i>Chemical Physics Letters</i> , <b>2005</b> , 403, 385-389	2.5	85
569	Impact testing and simulation of composite sandwich structures for civil transportation. <i>Composite Structures</i> , <b>2000</b> , 50, 257-267	5.3	84
568	A model for the thermal and chemorheological behavior of thermoset processing: (II) Unsaturated polyester based composites. <i>Composites Science and Technology</i> , <b>1990</b> , 38, 339-358	8.6	84
567	Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites. Part II: properties evaluation. <i>Carbohydrate Polymers</i> , <b>2013</b> , 96, 621-7	10.3	82
566	The role of irreversible and reversible phenomena in the piezoresistive behavior of graphene epoxy nanocomposites applied to structural health monitoring. <i>Composites Science and Technology</i> , <b>2013</b> , 80, 73-79	8.6	82
565	Tuning multi/pluri-potent stem cell fate by electrospun poly(L-lactic acid)-calcium-deficient hydroxyapatite nanocomposite mats. <i>Biomacromolecules</i> , <b>2012</b> , 13, 1350-60	6.9	82
564	Effects of the grain size on the corrosion behavior of refined AISI 304 austenitic stainless steels. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 1631-1634		82
563	Synergistic Effect of Halloysite and Cellulose Nanocrystals on the Functional Properties of PVA Based Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 794-800	8.3	81
562	Effect of Chemical Treatment on the Mechanical Properties of Starch-Based Blends Reinforced with Sisal Fibre. <i>Journal of Composite Materials</i> , <b>2004</b> , 38, 1387-1399	2.7	81
561	Development of ultra fine grain structure by martensitic reversion in stainless steel. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 751-753		81
560	Grain refinement strengthening of a micro-crystalline high nitrogen austenitic stainless steel. <i>Materials Letters</i> , <b>2003</b> , 57, 1830-1834	3.3	81
559	Extraction of Cellulose Nanocrystals from Phormium tenax Fibres. <i>Journal of Polymers and the Environment</i> , <b>2013</b> , 21, 319-328	4.5	80

558	Curing kinetics and chemorheology of epoxy/anhydride system. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 90, 3012-3019	2.9	79
557	Heat capacity of nanofluids for solar energy storage produced by dispersing oxide nanoparticles in nitrate salt mixture directly at high temperature. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 167, 60-69	6.4	78
556	Characterization of Composites Based on Natural and Glass Fibers Obtained by Vacuum Infusion. <i>Journal of Composite Materials</i> , <b>2005</b> , 39, 265-282	2.7	77
555	Reversible oxidation effects on carbon nanotubes thin films for gas sensing applications. <i>Materials Science and Engineering C</i> , <b>2003</b> , 23, 523-529	8.3	77
554	A model for the thermal and chemorheological behavior of thermosets. I: Processing of epoxy-based composites. <i>Polymer Engineering and Science</i> , <b>1989</b> , 29, 973-983	2.3	77
553	Optimized extraction of cellulose nanocrystals from pristine and carded hemp fibres. <i>Industrial Crops and Products</i> , <b>2014</b> , 56, 175-186	5.9	76
552	Electrospinning of biodegradable polylactide/hydroxyapatite nanofibers: Study on the morphology, crystallinity structure and thermal stability. <i>Polymer Degradation and Stability</i> , <b>2012</b> , 97, 2052-2059	4.7	76
551	Relationship between processing and properties of biodegradable composites based on PCL/starch matrix and sisal fibers. <i>Polymer Composites</i> , <b>2001</b> , 22, 104-110	3	76
550	New multifunctional poly(lactide acid) composites: Mechanical, antibacterial, and degradation properties. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 87-98	2.9	75
549	Effects of grain size on the properties of a low nickel austenitic stainless steel. <i>Journal of Materials Science</i> , <b>2003</b> , 38, 4725-4733	4.3	74
548	Grain size dependence of the fatigue behaviour of a ultrafine-grained AISI 304 stainless steel. <i>Materials Letters</i> , <b>2003</b> , 57, 3182-3185	3.3	74
547	Revalorization of sunflower stalks as novel sources of cellulose nanofibrils and nanocrystals and their effect on wheat gluten bionanocomposite properties. <i>Carbohydrate Polymers</i> , <b>2016</b> , 149, 357-68	10.3	73
546	Bio-based PLA_PHB plasticized blend films: Processing and structural characterization. <i>LWT - Food Science and Technology</i> , <b>2015</b> , 64, 980-988	5.4	72
545	Protocol for nonisothermal cure analysis of thermoset composites. <i>Progress in Organic Coatings</i> , <b>2019</b> , 131, 333-339	4.8	71
544	Deposition of amino-functionalized polyhedral oligomeric silsesquioxanes on graphene oxide sheets immobilized onto an amino-silane modified silicon surface. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 6213		71
543	Dielectric behavior of epoxy matrix/single-walled carbon nanotube composites. <i>Composites Science and Technology</i> , <b>2004</b> , 64, 23-33	8.6	71
542	Effects of reinforcing fibers on the crystallization of polypropylene. <i>Polymer Engineering and Science</i> , <b>2000</b> , 40, 2194-2204	2.3	71
541	Rheology of particle suspensions in viscoelastic media. Wood flour-polypropylene melt. <i>Rheologica Acta</i> , <b>2004</b> , 43, 293-303	2.3	69



540	Lignocellulosic nanostructures as reinforcement in extruded and solvent casted polymeric nanocomposites: an overview. <i>European Polymer Journal</i> , <b>2016</b> , 80, 295-316	5.2	69
539	Elastomer/thermoplastic modified epoxy nanocomposites: The hybrid effect of micro and nano scale. <i>Materials Science and Engineering Reports</i> , <b>2017</b> , 116, 1-29	30.9	68
538	Effect of chitosan and catechin addition on the structural, thermal, mechanical and disintegration properties of plasticized electrospun PLA-PHB biocomposites. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 132, 145-156	4.7	68
537	Dynamics of amine functionalized nanotubes/epoxy composites by dielectric relaxation spectroscopy. <i>Carbon</i> , <b>2004</b> , 42, 323-329	10.4	68
536	Bio- and Fossil-Based Polymeric Blends and Nanocomposites for Packaging: Structure?Property Relationship. <i>Materials</i> , <b>2019</b> , 12,	3.5	67
535	Towards materials with enhanced electro-mechanical response: CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /polydimethylsiloxane composites. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 24705		67
534	Effect of lignin nanoparticles and masterbatch procedures on the final properties of glycidyl methacrylate- g -poly (lactic acid) films before and after accelerated UV weathering. <i>Industrial Crops and Products</i> , <b>2015</b> , 77, 833-844	5.9	66
533	Relationship between water absorption and dielectric behaviour of natural fibre composite materials. <i>Polymer Testing</i> , <b>2006</b> , 25, 181-187	4.5	66
532	Mechanical properties of polypropylene matrix composites reinforced with natural fibers: A statistical approach. <i>Polymer Composites</i> , <b>2004</b> , 25, 26-36	3	66
531	Study of disintegrability in compost and enzymatic degradation of PLA and PLA nanocomposites reinforced with cellulose nanocrystals extracted from <i>Posidonia Oceanica</i> . <i>Polymer Degradation and Stability</i> , <b>2015</b> , 121, 105-115	4.7	65
530	Processing of edible films based on nanoreinforced gelatinized starch. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 132, 157-168	4.7	65
529	Carbon nanotubes and silver nanoparticles for multifunctional conductive biopolymer composites. <i>Carbon</i> , <b>2011</b> , 49, 2370-2379	10.4	65
528	Effects of oxygen annealing on gas sensing properties of carbon nanotube thin films. <i>Thin Solid Films</i> , <b>2003</b> , 436, 95-100	2.2	65
527	EPDM based heat shielding materials for Solid Rocket Motors: A comparative study of different fibrous reinforcements. <i>Polymer Degradation and Stability</i> , <b>2013</b> , 98, 2131-2139	4.7	64
526	A nanostructured ablative bulk molding compound: Development and characterization. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2011</b> , 42, 1197-1204	8.4	64
525	Electrospun poly( $\epsilon$ -caprolactone)/Ca-deficient hydroxyapatite nanohybrids: Microstructure, mechanical properties and cell response by murine embryonic stem cells. <i>Materials Science and Engineering C</i> , <b>2009</b> , 29, 2063-2071	8.3	64
524	Effects of carbon nanotubes (CNTs) on the processing and in-vitro degradation of poly(DL-lactide-co-glycolide)/CNT films. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 2371-2377	4.5	64
523	Simple citric acid-catalyzed surface esterification of cellulose nanocrystals. <i>Carbohydrate Polymers</i> , <b>2017</b> , 157, 1358-1364	10.3	63

522	In situ real-time monitoring of epoxy/amine kinetics by remote near infrared spectroscopy. <i>Polymers for Advanced Technologies</i> , <b>1996</b> , 7, 1-16	3.2	62
521	Use of alginate, chitosan and cellulose nanocrystals as emulsion stabilizers in the synthesis of biodegradable polymeric nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 445, 31-39	9.3	61
520	Melt free radical grafting of glycidyl methacrylate (GMA) onto fully biodegradable poly(lactic acid) films: effect of cellulose nanocrystals and a masterbatch process. <i>RSC Advances</i> , <b>2015</b> , 5, 32350-32357	3.7	60
519	Nanocomposites Based on Biodegradable Polymers. <i>Materials</i> , <b>2018</b> , 11,	3.5	60
518	Processing, properties and stability of biodegradable composites based on Mater-Bi and cellulose fibres. <i>Polymers for Advanced Technologies</i> , <b>2003</b> , 14, 749-756	3.2	60
517	Isothermal and dynamic reaction kinetics of high performance epoxy matrices. <i>Polymer Engineering and Science</i> , <b>1991</b> , 31, 1426-1433	2.3	59
516	Cellulose nanocrystal based multifunctional nanohybrids. <i>Progress in Materials Science</i> , <b>2020</b> , 112, 100668	8.2	58
515	Role of lignin nanoparticles in UV resistance, thermal and mechanical performance of PMMA nanocomposites prepared by a combined free-radical graft polymerization/masterbatch procedure. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2018</b> , 107, 61-69	8.4	57
514	Synthesis and characterization of epoxy resin-montmorillonite nanocomposites obtained by frontal polymerization. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 2204-2211	2.5	57
513	Thermally-activated shape memory behaviour of bionanocomposites reinforced with cellulose nanocrystals. <i>Cellulose</i> , <b>2014</b> , 21, 4231-4246	5.5	56
512	Degradation behaviour of a composite material for thermal protection systems Part III Char characterization. <i>Journal of Materials Science</i> , <b>2000</b> , 35, 4563-4566	4.3	56
511	Poly(lactic acid)/lignin films with enhanced toughness and anti-oxidation performance for active food packaging. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 144, 102-110	7.9	56
510	Thermal, antioxidant and swelling behaviour of transparent polyvinyl (alcohol) films in presence of hydrophobic citric acid-modified lignin nanoparticles. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 127, 665-676	7.9	55
509	Solidification mode and residual ferrite in low-Ni austenitic stainless steels. <i>Journal of Materials Science</i> , <b>2000</b> , 35, 375-380	4.3	55
508	Poly(N,N-dimethylacrylamide) hydrogels obtained by frontal polymerization. <i>Journal of Polymer Science Part A</i> , <b>2009</b> , 47, 1422-1428	2.5	54
507	Modification of fluorinated single-walled carbon nanotubes with aminosilane molecules. <i>Carbon</i> , <b>2006</b> , 44, 2196-2201	10.4	54
506	Crystallization kinetics of poly(phenylene sulfide) (PPS) and PPS/carbon fiber composites. <i>Polymer Engineering and Science</i> , <b>1991</b> , 31, 607-614	2.3	54
505	Effect of the addition of polyester-grafted-cellulose nanocrystals on the shape memory properties of biodegradable PLA/PCL nanocomposites. <i>Polymer Degradation and Stability</i> , <b>2018</b> , 152, 126-138	4.7	53

504	Effects of the nanoparticles on the thermal expansion and mechanical properties of unsaturated polyester/clay nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2013</b> , 45, 44-48	8.4	53
503	Micropatterned hydrogenated amorphous carbon guides mesenchymal stem cells towards neuronal differentiation. <i>European Cells and Materials</i> , <b>2010</b> , 20, 231-44	4.3	53
502	Functional Properties of Plasticized Bio-Based Poly(Lactic Acid)_Poly(Hydroxybutyrate) (PLA_PHB) Films for Active Food Packaging. <i>Food and Bioprocess Technology</i> , <b>2017</b> , 10, 770-780	5.1	52
501	Influence of thymol and silver nanoparticles on the degradation of poly(lactic acid) based nanocomposites: Thermal and morphological properties. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 108, 158-165	4.7	52
500	Electrodeposition of transparent and conducting graphene/carbon nanotube thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2010</b> , 207, 2461-2466	1.6	52
499	Use of plasma fluorinated single-walled carbon nanotubes for the preparation of nanocomposites with epoxy matrix. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 1008-1014	8.6	52
498	Cure kinetics of epoxy/MWCNTs nanocomposites: Isothermal calorimetric and rheological analyses. <i>Progress in Organic Coatings</i> , <b>2017</b> , 108, 75-83	4.8	51
497	Poly(lactic acid) melt-spun fibers reinforced with functionalized cellulose nanocrystals. <i>RSC Advances</i> , <b>2016</b> , 6, 9221-9231	3.7	51
496	Biowaste chicken eggshell powder as a potential cure modifier for epoxy/anhydride systems: competitiveness with terpolymer-modified calcium carbonate at low loading levels. <i>RSC Advances</i> , <b>2017</b> , 7, 2218-2230	3.7	50
495	Citric Acid as Green Modifier for Tuned Hydrophilicity of Surface Modified Cellulose and Lignin Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 9966-9978	8.3	50
494	Poly(N-vinylcaprolactam) nanocomposites containing nanocrystalline cellulose: a green approach to thermoresponsive hydrogels. <i>Cellulose</i> , <b>2013</b> , 20, 2393-2402	5.5	50
493	Degradation behaviour of a composite material for thermal protection systemsPart II Process simulation. <i>Journal of Materials Science</i> , <b>1998</b> , 33, 3145-3149	4.3	50
492	Effect of cellulose nanocrystals on the properties of pea starch/poly(vinyl alcohol) blend films. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 6979-6992	4.3	49
491	Hydrogenated amorphous carbon nanopatterned film designs drive human bone marrow mesenchymal stem cell cytoskeleton architecture. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 3139-49	3.9	49
490	Experimental study and finite element analysis of the elastic instability of composite lattice structures for aeronautic applications. <i>Composite Structures</i> , <b>2007</b> , 78, 519-528	5.3	49
489	Principal features of structural relaxation in glassy polymers. A Review. <i>Polymer Engineering and Science</i> , <b>1994</b> , 34, 381-389	2.3	48
488	Reactive compatibilization of plant polysaccharides and biobased polymers: Review on current strategies, expectations and reality. <i>Carbohydrate Polymers</i> , <b>2019</b> , 209, 20-37	10.3	48
487	Combined effects of Ag nanoparticles and oxygen plasma treatment on PLGA morphological, chemical, and antibacterial properties. <i>Biomacromolecules</i> , <b>2013</b> , 14, 626-36	6.9	47

486	Creep behavior of biocomposites based on sisal fiber reinforced cellulose derivatives/starch blends. <i>Polymer Composites</i> , <b>2004</b> , 25, 280-288	3	47
485	Formation of carbon nanotubes by plasma enhanced chemical vapor deposition: Role of nitrogen and catalyst layer thickness. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 6188-6194	2.5	47
484	Pulsed PECVD deposition of diamond-like carbon films. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 1047-1052	2.5	47
483	Nanostructured starch combined with hydroxytyrosol in poly(vinyl alcohol) based ternary films as active packaging system. <i>Carbohydrate Polymers</i> , <b>2018</b> , 193, 239-248	10.3	46
482	Reaction-Induced Phase Separation and Thermomechanical Properties in Epoxidized Styrene-block-butadiene-block-styrene Triblock Copolymer Modified Epoxy/DDM System. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 6941-6950	3.9	46
481	Morphological and Mechanical Characterization of Nanostructured Thermosets from Epoxy and Styrene-block-Butadiene-block-Styrene Triblock Copolymer. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 9121-9129	3.9	46
480	A comparative evaluation of crashworthy composite sandwich structures. <i>Composite Structures</i> , <b>2007</b> , 78, 34-44	5.3	46
479	Effect of grain size on the corrosion resistance of a high nitrogen-low nickel austenitic stainless steel. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 1969-1971		46
478	Development of high nitrogen, low nickel, 18%Cr austenitic stainless steels. <i>Journal of Materials Science</i> , <b>2000</b> , 35, 4803-4808	4.3	46
477	Electrical characteristics of carbon nanotube-doped composites. <i>Physics-Uspekhi</i> , <b>2015</b> , 58, 209-251	2.8	45
476	Thermally-activated shape memory effect on biodegradable nanocomposites based on PLA/PCL blend reinforced with hydroxyapatite. <i>Polymer Degradation and Stability</i> , <b>2018</b> , 151, 36-51	4.7	45
475	Thermal degradation of recycled polypropylene toughened with elastomers. <i>Polymer Degradation and Stability</i> , <b>2003</b> , 82, 279-290	4.7	45
474	Valorization and extraction of cellulose nanocrystals from North African grass: <i>Ampelodesmos mauritanicus</i> (Diss). <i>Carbohydrate Polymers</i> , <b>2019</b> , 209, 328-337	10.3	45
473	Biocompatible poly(L-lactide)/MWCNT nanocomposites: morphological characterization, electrical properties, and stem cell interaction. <i>Macromolecular Bioscience</i> , <b>2012</b> , 12, 870-81	5.5	44
472	Ternary PVA nanocomposites containing cellulose nanocrystals from different sources and silver particles: part II. <i>Carbohydrate Polymers</i> , <b>2013</b> , 97, 837-48	10.3	44
471	In situ production of high filler content graphene-based polymer nanocomposites by reactive processing. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 16544		44
470	PLGA/Ag nanocomposites: in vitro degradation study and silver ion release. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2011</b> , 22, 2735-44	4.5	44
469	Structure-Properties Relationship of Short Jute Fiber-reinforced Polypropylene Composites. <i>Journal of Composite Materials</i> , <b>2005</b> , 39, 51-65	2.7	44

468	Preparation and properties of adhesives based on phenolic resin containing lignin micro and nanoparticles: A comparative study. <i>Materials and Design</i> , <b>2019</b> , 161, 55-63	8.1	44
467	Cure kinetics of epoxy/chicken eggshell biowaste composites: Isothermal calorimetric and chemorheological analyses. <i>Progress in Organic Coatings</i> , <b>2018</b> , 114, 208-215	4.8	44
466	Molecular dynamics simulations of uniaxial deformation of thermoplastic polyimides. <i>Soft Matter</i> , <b>2016</b> , 12, 3972-81	3.6	43
465	Carbon nanofibers for strain and impact damage sensing in glass fiber reinforced composites based on an unsaturated polyester resin. <i>Polymer Composites</i> , <b>2011</b> , 32, 766-775	3	43
464	Mechanical properties of polypropylene composites based on natural fibers subjected to multiple extrusion cycles. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 103, 228-237	2.9	43
463	Dynamics of Six Generations of PAMAM Dendrimers As Studied by Dielectric Relaxation Spectroscopy. <i>Macromolecules</i> , <b>2007</b> , 40, 5212-5221	5.5	43
462	Correlation between dielectric and chemorheological properties during cure of epoxy-based composites. <i>Journal of Materials Science</i> , <b>1994</b> , 29, 800-808	4.3	43
461	Effect of alkali and silane treatments on mechanical and thermal behavior of Phormium tenax fibers. <i>Fibers and Polymers</i> , <b>2013</b> , 14, 423-427	2	42
460	Effect of nanoclay and carboxyl-terminated (butadiene-co-acrylonitrile) (CTBN) rubber on the reaction induced phase separation and cure kinetics of an epoxy/cyclic anhydride system. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 5241-5253	4.3	42
459	Thermal degradation of poly(vinyl chloride) plastisols based on low-migration polymeric plasticizers. <i>Polymer Degradation and Stability</i> , <b>2001</b> , 73, 447-453	4.7	42
458	Influence of organically modified clays on the properties and disintegrability in compost of solution cast poly(3-hydroxybutyrate) films. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 99, 127-135	4.7	41
457	Effect of magnetic nanoparticles on the thermal properties of some hydrogels. <i>Polymer Degradation and Stability</i> , <b>2007</b> , 92, 2198-2205	4.7	41
456	Vacancy-induced chemisorption of NO <sub>2</sub> on carbon nanotubes: a combined theoretical and experimental study. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 13175-9	3.4	41
455	Melt rheological behavior of starch-based matrix composites reinforced with short sisal fibers. <i>Polymer Engineering and Science</i> , <b>2004</b> , 44, 1907-1914	2.3	41
454	Structure, gas-barrier properties and overall migration of poly(lactic acid) films coated with hydrogenated amorphous carbon layers. <i>Carbon</i> , <b>2013</b> , 63, 274-282	10.4	40
453	Modeling diffusion-control in the cure kinetics of epoxy-amine thermoset resins: An approach based on configurational entropy. <i>Polymer</i> , <b>2010</b> , 51, 5833-5845	3.9	40
452	Statistical analysis of the mechanical properties of natural fibers and their composite materials. I. Natural fibers. <i>Polymer Composites</i> , <b>2008</b> , 29, 313-320	3	40
451	Keratins extracted from Merino wool and Brown Alpaca fibres as potential fillers for PLLA-based biocomposites. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 6257-6269	4.3	39

450	Effect of boron carbide nanoparticles on the fire reaction and fire resistance of carbon fiber/epoxy composites. <i>Polymer</i> , <b>2013</b> , 54, 5154-5165	3.9	39
449	Interaction of methane with carbon nanotube thin films: role of defects and oxygen adsorption. <i>Materials Science and Engineering C</i> , <b>2004</b> , 24, 527-533	8.3	39
448	Characterization and disintegrability under composting conditions of PLA-based nanocomposite films with thymol and silver nanoparticles. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 132, 2-10	4.7	39
447	New environmentally friendly composite laminates with epoxidized linseed oil (ELO) and slate fiber fabrics. <i>Composites Part B: Engineering</i> , <b>2015</b> , 71, 203-209	10	38
446	Development and characterization of bionanocomposites based on poly(3-hydroxybutyrate) and cellulose nanocrystals for packaging applications. <i>Polymer International</i> , <b>2016</b> , 65, 1046-1053	3.3	38
445	Mechanical and shape-memory properties of poly(mannitol sebacate)/cellulose nanocrystal nanocomposites. <i>Journal of Polymer Science Part A</i> , <b>2014</b> , 52, 3123-3133	2.5	38
444	Keratins extracted from Merino wool and Brown Alpaca fibres: thermal, mechanical and biological properties of PLLA based biocomposites. <i>Materials Science and Engineering C</i> , <b>2015</b> , 47, 394-406	8.3	38
443	Compressive and flexural behaviour of fibre reinforced endodontic posts. <i>Journal of Dentistry</i> , <b>2012</b> , 40, 968-78	4.8	38
442	Mechanotransduction: tuning stem cells fate. <i>Journal of Functional Biomaterials</i> , <b>2011</b> , 2, 67-87	4.8	38
441	Thermal degradation and fire resistance of epoxy-amine-phenolic blends. <i>Polymer Degradation and Stability</i> , <b>2001</b> , 73, 521-527	4.7	38
440	Impedance spectroscopy of reactive polymers. 1. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1994</b> , 32, 2519-2527	2.6	38
439	Formulation and mechanical characterization of PVC plastisols based on low-toxicity additives. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 81, 1881-1890	2.9	37
438	Processing-structure-adhesion relationship in CVD diamond films on titanium substrates. <i>Diamond and Related Materials</i> , <b>1999</b> , 8, 17-24	3.5	37
437	The role of nanocrystalline cellulose on the microstructure of foamed castor-oil polyurethane nanocomposites. <i>Carbohydrate Polymers</i> , <b>2015</b> , 134, 110-8	10.3	36
436	Effect of Cellulose Nanocrystals and Lignin Nanoparticles on Mechanical, Antioxidant and Water Vapour Barrier Properties of Glutaraldehyde Crosslinked PVA Films. <i>Polymers</i> , <b>2020</b> , 12,	4.5	36
435	Okra ( <i>Abelmoschus esculentus</i> ) Fibre Based PLA Composites: Mechanical Behaviour and Biodegradation. <i>Journal of Polymers and the Environment</i> , <b>2013</b> , 21, 726-737	4.5	36
434	Effect of ethylene-co-vinyl acetate-glycidylmethacrylate and cellulose microfibrils on the thermal, rheological and biodegradation properties of poly(lactic acid) based systems. <i>Polymer Degradation and Stability</i> , <b>2013</b> , 98, 2742-2751	4.7	36
433	Biodegradation of Phormium tenax/poly(lactic acid) composites. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, E562-E572	2.9	36



432	Effect of clay organic modifier on the final performance of PCL/clay nanocomposites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 529, 215-223	5.3	36
431	Synthesis and thermal characterization of phenolic resin/silica nanocomposites prepared with high shear rate-mixing technique. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 120, 2632-2640	2.9	36
430	Role of PLLA plasma surface modification in the interaction with human marrow stromal cells. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 114, 3602-3611	2.9	36
429	Polyaniline/multiwalled carbon nanotube systems: Dispersion of CNT and CNT/PANI interaction. <i>Polymer Engineering and Science</i> , <b>2008</b> , 48, 1872-1877	2.3	36
428	Dynamics of Multifunctional Polyhedral Oligomeric Silsesquioxane/Poly(propylene oxide) Nanocomposites As Studied by Dielectric Relaxation Spectroscopy and Dynamic Mechanical Spectroscopy. <i>Macromolecules</i> , <b>2007</b> , 40, 6239-6248	5.5	36
427	Numerical modeling and experimental study of the frontal polymerization of the diglycidyl ether of bisphenol A/diethylenetriamine epoxy system. <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 96, 1756-1766	2.9	36
426	Effect of Wollastonite on the ablation resistance of EPDM based elastomeric heat shielding materials for solid rocket motors. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 130, 47-57	4.7	35
425	Toward the microstructure-properties relationship in MWCNT/epoxy composites: Percolation behavior and dielectric spectroscopy. <i>Composites Science and Technology</i> , <b>2014</b> , 96, 38-46	8.6	35
424	Processing Conditions, Thermal and Mechanical Responses of Stretchable Poly (Lactic Acid)/Poly (Butylene Succinate) Films. <i>Materials</i> , <b>2017</b> , 10,	3.5	35
423	Cure kinetics and thermal stability of micro and nanostructured thermosetting blends of epoxy resin and epoxidized styrene-block-butadiene-block-styrene triblock copolymer systems. <i>Polymer Engineering and Science</i> , <b>2012</b> , 52, 2336-2347	2.3	35
422	Impact damage sensing in glass fiber reinforced composites based on carbon nanotubes by electrical resistance measurements. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 122, 2829-2836	2.9	35
421	Phenolic matrix nanocomposites based on commercial grade resols: Synthesis and characterization. <i>Composites Science and Technology</i> , <b>2010</b> , 70, 571-577	8.6	35
420	Effects of oxygen annealing on cross sensitivity of carbon nanotubes thin films for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 100, 33-40	8.5	35
419	Processing and characterization of epoxy-anhydride-based intercalated nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 90, 2532-2539	2.9	35
418	Novel approaches to developing carbon nanotube based polymer composites: fundamental studies and nanotech applications. <i>Polymer</i> , <b>2005</b> , 46, 6715-6718	3.9	35
417	Dynamic-mechanical and dielectric characterization of PEEK crystallization. <i>Polymer Engineering and Science</i> , <b>1990</b> , 30, 314-320	2.3	35
416	Biodegradable nanocomposites based on poly(ester-urethane) and nanosized hydroxyapatite: Plastificant and reinforcement effects. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 121, 171-179	4.7	34
415	Recycling coffee silverskin in sustainable composites based on a poly(butylene adipate-co-terephthalate)/poly(3-hydroxybutyrate-co-3-hydroxyvalerate) matrix. <i>Industrial Crops and Products</i> , <b>2018</b> , 118, 311-320	5.9	34

414	Synthesis of PLLA-b-PCL-b-PLLA linear tri-block copolymers and their corresponding poly(ester-urethane)s: effect of the molecular weight on their crystallisation and mechanical properties. <i>RSC Advances</i> , <b>2014</b> , 4, 8510	3.7	34
413	Poly(Ecaprolactone) reinforced with fibres of Poly(methyl methacrylate) loaded with multiwall carbon nanotubes or graphene nanoplatelets. <i>Chemical Engineering Journal</i> , <b>2012</b> , 195-196, 140-148	14.7	34
412	Effect of carbon nanofibers on the cure kinetics of unsaturated polyester resin: Thermal and chemorheological modelling. <i>Composites Science and Technology</i> , <b>2011</b> , 71, 1507-1507	8.6	34
411	Mechanical properties of natural fibers/polyamides composites. <i>Polymer Composites</i> , <b>2009</b> , 30, 257-264	3	34
410	Confinement of Functionalized Graphene Sheets by Triblock Copolymers. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 17973-17978	3.8	34
409	Self-Assembling of SBS Block Copolymers as Templates for Conductive Silver Nanocomposites. <i>Macromolecular Materials and Engineering</i> , <b>2008</b> , 293, 568-573	3.9	34
408	Calorimetric analysis of the polymerization reaction of a phenolic resin. <i>Thermochimica Acta</i> , <b>1995</b> , 269-270, 201-211	2.9	34
407	Cellulose nanocrystals as templates for cetyltrimethylammonium bromide mediated synthesis of Ag nanoparticles and their novel use in PLA films. <i>Carbohydrate Polymers</i> , <b>2017</b> , 157, 1557-1567	10.3	33
406	Enhancing osteoconduction of PLLA-based nanocomposite scaffolds for bone regeneration using different biomimetic signals to MSCs. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 2439-58	6.3	33
405	Ozone adsorption on carbon nanotubes: Ab initio calculations and experiments. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2004</b> , 22, 1466-1470	2.9	33
404	Comparative study of the effects of different fibers on the processing and properties of ternary composites based on PP-EPDM blends. <i>Polymer Composites</i> , <b>2002</b> , 23, 779-789	3	33
403	Rheological behavior and processability of polypropylene blends with rubber ethylene propylene diene terpolymer. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 81, 1-10	2.9	33
402	Properties of composite laminates based on basalt fibers with epoxidized vegetable oils. <i>Materials &amp; Design</i> , <b>2015</b> , 72, 9-15		32
401	Effect of reactive functionalization on properties and degradability of poly(lactic acid)/poly(vinyl acetate) nanocomposites with cellulose nanocrystals. <i>Reactive and Functional Polymers</i> , <b>2017</b> , 110, 1-9	4.6	32
400	Poly(lactic acid)/Phormium tenax composites: Morphology and thermo-mechanical behavior. <i>Polymer Composites</i> , <b>2011</b> , 32, 1362-1368	3	32
399	Comparative study by DSC and FTIR techniques of an unsaturated polyester resin cured at different temperatures. <i>Polymer International</i> , <b>1998</b> , 45, 333-338	3.3	32
398	Chemorheological behaviour of double-walled carbon nanotube-epoxy nanocomposites. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 1862-1868	8.6	32
397	Investigation of the NO <sub>2</sub> sensitivity properties of multiwalled carbon nanotubes prepared by plasma enhanced chemical vapor deposition. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2003</b> , 21, 1996		32

396	Grain size dependence of mechanical, corrosion and tribological properties of high nitrogen stainless steels. <i>Journal of Materials Science</i> , <b>2003</b> , 38, 3257-3262	4.3	32
395	Frequency dependent electrical transport between conjugated polymer and single-walled carbon nanotubes. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 1601-1609	3.5	32
394	Interface morphology of carbon fibre/PEEK composites. <i>Journal of Materials Science</i> , <b>1990</b> , 25, 3493-3496	4.3	32
393	Gallic Acid and Quercetin as Intelligent and Active Ingredients in Poly(vinyl alcohol) Films for Food Packaging. <i>Polymers</i> , <b>2019</b> , 11,	4.5	32
392	Biodegradable polycaprolactone-based composites reinforced with ramie and borassus fibres. <i>Composite Structures</i> , <b>2017</b> , 167, 20-29	5.3	31
391	The effect of sepiolite on the compatibilization of polyethylene/thermoplastic starch blends for environmentally friendly films. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 863-872	4.3	31
390	Multiresponsive Shape Memory Blends and Nanocomposites Based on Starch. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 19197-201	9.5	31
389	Influence of the carbon nanofiller surface curvature on the initiation of crystallization in thermoplastic polymers. <i>RSC Advances</i> , <b>2014</b> , 4, 48606-48612	3.7	31
388	Nonvolatile memory behavior of nanocrystalline cellulose/graphene oxide composite films. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 153111	3.4	31
387	Liquid rubber and silicon carbide nanofiber modified epoxy nanocomposites: Volume shrinkage, cure kinetics and properties. <i>Composites Science and Technology</i> , <b>2014</b> , 102, 65-73	8.6	30
386	Cellulose nanocrystals thin films as gate dielectric for flexible organic field-effect transistors. <i>Materials Letters</i> , <b>2014</b> , 126, 55-58	3.3	30
385	Clay nanostructure and its localisation in an epoxy/liquid rubber blend. <i>RSC Advances</i> , <b>2013</b> , 3, 24634	3.7	30
384	Novel poly(L-lactide) PLLA/SWNTs nanocomposites for biomedical applications: material characterization and biocompatibility evaluation. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2011</b> , 22, 541-56	3.5	30
383	Processing and properties of poly(Ecaprolactone)/carbon nanofibre composite mats and films obtained by electrospinning and solvent casting. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 4789-4795	4.3	30
382	Preparation of extended alkylated graphene oxide conducting layers and effect study on the electrical properties of PEDOT:PSS polymer composites. <i>Chemical Physics Letters</i> , <b>2010</b> , 494, 264-268	2.5	30
381	Effect of water absorption on the behavior of E-glass fiber/nylon-6 composites. <i>Polymer Composites</i> , <b>1991</b> , 12, 333-337	3	30
380	Preparation of alginate hydrogels containing silver nanoparticles: a facile approach for antibacterial applications. <i>Polymer International</i> , <b>2016</b> , 65, 921-926	3.3	30
379	Thermal and composting degradation of EVA/Thermoplastic starch blends and their nanocomposites. <i>Polymer Degradation and Stability</i> , <b>2019</b> , 159, 184-198	4.7	30

378	Ablation modeling of state of the art EPDM based elastomeric heat shielding materials for solid rocket motors. <i>Computational Materials Science</i> , <b>2016</b> , 111, 460-480	3.2	29
377	Polypropylene-natural fibre composites. Analysis of fibre structure modification during compounding and its influence on the final properties. <i>Composite Interfaces</i> , <b>2008</b> , 15, 111-129	2.3	29
376	The influence of atmospheric humidity and grain size on the friction and wear of AISI 304 austenitic stainless steel. <i>Materials Letters</i> , <b>2003</b> , 57, 4505-4508	3.3	29
375	Analysis of the Relationship between Processing Conditions-Fiber Orientation-Final Properties in Short Fiber Reinforced Polypropylene. <i>Journal of Reinforced Plastics and Composites</i> , <b>1999</b> , 18, 413-420	2.9	29
374	Design and Characterization of PLA Bilayer Films Containing Lignin and Cellulose Nanostructures in Combination With Umbelliferone as Active Ingredient. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 157	5	28
373	Effect of different lignocellulosic fibres on poly( $\epsilon$ -caprolactone)-based composites for potential applications in orthotics. <i>RSC Advances</i> , <b>2015</b> , 5, 23798-23809	3.7	28
372	Preparation of transparent and conductive cellulose nanocrystals/graphene nanoplatelets films. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 1009-1013	4.3	28
371	Membrane Made of Cellulose Acetate with Polyacrylic Acid Reinforced with Carbon Nanotubes and Its Applicability for Chromium Removal. <i>International Journal of Polymer Science</i> , <b>2015</b> , 2015, 1-12	2.4	28
370	Integrated PLGA/g nanocomposite systems to control the degradation rate and antibacterial properties. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 130, 1185-1193	2.9	28
369	Friction and Wear Behavior of Austenitic Stainless Steel: Influence of Atmospheric Humidity, Load Range, and Grain Size. <i>Tribology Letters</i> , <b>2004</b> , 17, 697-704	2.8	28
368	Crystallization kinetics by differential scanning calorimetry for PCL/starch and their reinforced sisal fiber composites. <i>Polymer Engineering and Science</i> , <b>2001</b> , 41, 1521-1528	2.3	28
367	A new kinetic model for polymer crystallization derived by calorimetric analysis. <i>Thermochimica Acta</i> , <b>1993</b> , 227, 83-95	2.9	28
366	Protein encapsulation in biodegradable polymeric nanoparticles: morphology, fluorescence behaviour and stem cell uptake. <i>Macromolecular Bioscience</i> , <b>2013</b> , 13, 1204-12	5.5	27
365	Influence of the Processing Parameters on the Electrospinning of Biopolymeric Fibers. <i>Journal of Renewable Materials</i> , <b>2014</b> , 2, 23-34	2.4	27
364	The production of concentrated dispersions of few-layer graphene by the direct exfoliation of graphite in organosilanes. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 674	5	27
363	Dynamic mechanical properties of oil palm microfibril-reinforced natural rubber composites. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 117, NA-NA	2.9	27
362	[2.2]Paracyclophane-based molecular systems for the development of organic solar cells. <i>Thin Solid Films</i> , <b>2008</b> , 516, 7193-7198	2.2	27
361	Clustering and cooperative dynamics in a reactive system. <i>Physical Review Letters</i> , <b>2005</b> , 94, 065702	7.4	27

360	Processing of short-fiber reinforced polypropylene. I. Influence of processing conditions on the morphology of extruded filaments. <i>Polymer Engineering and Science</i> , <b>2000</b> , 40, 11-22	2.3	27
359	Kinetic Modeling of the Thermal Degradation of Stabilized PVC Plastisols. <i>Magyar Áprólad Kélemblyek</i> , <b>2000</b> , 61, 483-491	0	27
358	Water sorption kinetics in poly(aryl ether ether ketone). <i>Journal of Applied Polymer Science</i> , <b>1989</b> , 37, 381-392	2.9	27
357	Synergic Effect of Nanolignin and Metal Oxide Nanoparticles into Poly(l-lactide) Bionanocomposites: Material Properties, Antioxidant Activity, and Antibacterial Performance.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 5263-5274	4.1	27
356	Microstructure and ablation behavior of an affordable and reliable nanostructured Phenolic Impregnated Carbon Ablator (PICA). <i>Polymer Degradation and Stability</i> , <b>2017</b> , 141, 84-96	4.7	26
355	Volume shrinkage and rheological studies of epoxidised and unepoxidised poly(styrene-block-butadiene-block-styrene) triblock copolymer modified epoxy resin-diamino diphenyl methane nanostructured blend systems. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 12760-70	3.6	26
354	Parameterization of electrostatic interactions for molecular dynamics simulations of heterocyclic polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2015</b> , 53, 912-923	2.6	26
353	Innovative cool roofing membrane with integrated phase change materials: Experimental characterization of morphological, thermal and optic-energy behavior. <i>Energy and Buildings</i> , <b>2016</b> , 112, 40-48	7	26
352	Effect of Cellulose Nanocrystals and Bacterial Cellulose on Disintegrability in Composting Conditions of Plasticized PHB Nanocomposites. <i>Polymers</i> , <b>2017</b> , 9,	4.5	26
351	Surfactant assisted selective confinement of carbon nanotubes functionalized with octadecylamine in a poly(styrene-b-isoprene-b-styrene) block copolymer matrix. <i>Carbon</i> , <b>2009</b> , 47, 2474-2480	10.4	26
350	A macrokinetic approach to crystallization applied to a new thermoplastic polyimide (New TPI) as a model polymer. <i>Journal of Applied Polymer Science</i> , <b>1995</b> , 56, 985-993	2.9	26
349	THE STEFAN AND DEBORAH NUMBERS IN POLYMER CRYSTALLIZATION. <i>Chemical Engineering Communications</i> , <b>1987</b> , 53, 69-84	2.2	26
348	Processing and characterization of nanocomposite based on poly(butylene/triethylene succinate) copolymers and cellulose nanocrystals. <i>Carbohydrate Polymers</i> , <b>2017</b> , 165, 51-60	10.3	25
347	Effect of fibre posts, bone losses and fibre content on the biomechanical behaviour of endodontically treated teeth: 3D-finite element analysis. <i>Materials Science and Engineering C</i> , <b>2017</b> , 74, 334-346	8.3	25
346	Morphological and thermal behavior of porous biopolymeric nanoparticles. <i>European Polymer Journal</i> , <b>2012</b> , 48, 1152-1159	5.2	25
345	Effect of carbon black nanoparticle intrinsic properties on the self-monitoring performance of glass fibre reinforced composite rods. <i>Composites Science and Technology</i> , <b>2011</b> , 71, 1-8	8.6	25
344	Analysis of the recrystallization and grain growth processes in AISI 316 stainless steel. <i>Journal of Materials Science</i> , <b>2002</b> , 37, 5291-5298	4.3	25
343	Kinetic analysis of the thermal degradation of PVC plastisols <b>1999</b> , 73, 1069-1079		25



342	Elasto-plastic behavior of thermoplastic composite laminates under cyclic loading. <i>Composite Structures</i> , <b>1995</b> , 32, 375-382	5.3	25
341	On the physical dimensions of the Avrami constant. <i>Thermochimica Acta</i> , <b>1995</b> , 269-270, 185-190	2.9	25
340	Processing of short fibre/thermosetting matrix composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>1996</b> , 27, 229-240	8.4	25
339	Comparison of kinetic and rheological evaluation of gel time for an amine-epoxy system. <i>Polymer</i> , <b>1993</b> , 34, 207-209	3.9	25
338	Multifunctional lignin-based nanocomposites and nanohybrids. <i>Green Chemistry</i> , <b>2021</b> , 23, 6698-6760	10	25
337	Relationship between morphology and electrical properties in PP/MWCNT composites: Processing-induced anisotropic percolation threshold. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 180, 284-290	4.4	24
336	Mechanical Properties of a Polymer at the Interface Structurally Ordered by Graphene. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 6771-6777	3.8	24
335	Influence of the carbon nanotube surface modification on the microstructure of thermoplastic binders. <i>RSC Advances</i> , <b>2015</b> , 5, 51621-51630	3.7	24
334	Synthesis and photoelectrical properties of carbon nanotube dendritic porphyrin light harvesting molecule systems. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 658-663	3.5	24
333	Structure-properties relationship in resol/montmorillonite nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 104, 3082-3089	2.9	24
332	Analysis of the biomineralization process on SWNT-COOH and F-SWNT films. <i>Materials Science and Engineering C</i> , <b>2008</b> , 28, 1522-1529	8.3	24
331	[2.2]Paracyclophanes incorporated within poly(3-butylthiophene): synthesis and photoelectrical properties. <i>New Journal of Chemistry</i> , <b>2006</b> , 30, 939	3.6	24
330	Ar-dilution effects on the elastic and structural properties of hydrogenated hard carbon films deposited by plasma-enhanced chemical vapor deposition. <i>Diamond and Related Materials</i> , <b>2001</b> , 10, 1088-1092	3.5	24
329	Preparation and characterization of polybutylene-succinate/poly(ethylene-glycol)/cellulose nanocrystals ternary composites. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	24
328	Tensile and fatigue characterisation of textile cotton waste/polypropylene laminates. <i>Composites Part B: Engineering</i> , <b>2015</b> , 81, 84-90	10	23
327	Liquid-rubber-modified epoxy/clay nanocomposites: effect of dispersion methods on morphology and ultimate properties. <i>Polymer Bulletin</i> , <b>2015</b> , 72, 1703-1722	2.4	23
326	Correlation between the High-Temperature Local Mobility of Heterocyclic Polyimides and Their Mechanical Properties. <i>Macromolecules</i> , <b>2016</b> , 49, 6700-6710	5.5	23
325	Crystallization and thermal characterization of biodegradable tri-block copolymers and poly(ester-urethane)s based on PCL and PLLA. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 108, 140-150	4.7	23



324	Plasma surface modification of porous PLLA films: Analysis of surface properties and in vitro hydrolytic degradation. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, E239-E247	2.9	23
323	Microstructure and Cytocompatibility of Electrospun Nanocomposites Based on Poly( $\epsilon$ -Caprolactone) and Carbon Nanostructures. <i>International Journal of Artificial Organs</i> , <b>2010</b> , 33, 271-282	1.9	23
322	Morphology-properties relationship on nanocomposite films based on poly(styrene-block-diene-block-styrene) copolymers and silver nanoparticles. <i>EXPRESS Polymer Letters</i> , <b>2011</b> , 5, 104-118	3.4	23
321	Influence of Twin-Screw Processing Conditions on the Mechanical Properties of Biocomposites. <i>Journal of Composite Materials</i> , <b>2005</b> , 39, 2023-2038	2.7	23
320	Surface patterning of linearly functionalized [2.2]paracyclophanes by voltage assisted dewetting. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 1622		23
319	Fatigue behavior of a high nitrogen austenitic stainless steel as a function of its grain size. <i>Journal of Materials Science Letters</i> , <b>2003</b> , 22, 1511-1513		23
318	Analysis of pultrusion processing of composites of unsaturated polyester resin with glass fibers. <i>Polymer Composites</i> , <b>1996</b> , 17, 478-485	3	23
317	Poly(lactic acid)-based nanocomposites filled with cellulose nanocrystals with modified surface: all-atom molecular dynamics simulations. <i>Polymer International</i> , <b>2016</b> , 65, 892-898	3.3	23
316	Effect of poly(dl-lactide-co-glycolide) nanoparticles or cellulose nanocrystals-based formulations on <i>Pseudomonas syringae</i> pv. tomato (Pst) and tomato plant development. <i>Journal of Plant Diseases and Protection</i> , <b>2016</b> , 123, 301-310	1.5	22
315	Characterization and enzymatic degradation study of poly( $\epsilon$ caprolactone)-based biocomposites from almond agricultural by-products. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 132, 181-190	4.7	22
314	Synthesis, characterization and hydrolytic degradation of polyester-urethanes obtained by lipase biocatalysis. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 108, 188-194	4.7	22
313	Light Scattering Study of Vitrification during the Polymerization of Model Epoxy Resins. <i>Macromolecules</i> , <b>2003</b> , 36, 5271-5278	5.5	22
312	New Developments in Dynamically Cured PPEPDM Blends. <i>Rubber Chemistry and Technology</i> , <b>2001</b> , 74, 211-220	1.7	22
311	Biodegradable electrospun PLA-PHB fibers plasticized with oligomeric lactic acid. <i>Polymer Degradation and Stability</i> , <b>2020</b> , 179, 109226	4.7	21
310	Combined effect of cellulose nanocrystals, carvacrol and oligomeric lactic acid in PLA_PHB polymeric films. <i>Carbohydrate Polymers</i> , <b>2019</b> , 223, 115131	10.3	21
309	Effective Postharvest Preservation of Kiwifruit and Romaine Lettuce with a Chitosan Hydrochloride Coating. <i>Coatings</i> , <b>2017</b> , 7, 196	2.9	21
308	Morphological analysis of self-assembled SIS block copolymer matrices containing silver nanoparticles. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 1631-1636	8.6	21
307	Thermal stability of P(HB-co-HV) and its blends with polyalcohols. <i>Journal of Applied Polymer Science</i> , <b>2000</b> , 77, 2889-2900	2.9	21

306	Impedance spectroscopy of reactive polymers. 2. Multifunctional epoxy/amine formulations. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1995</b> , 33, 433-443	2.6	21
305	Controlled Release of Thymol from Poly(Lactic Acid)-Based Silver Nanocomposite Films with Antibacterial and Antioxidant Activity. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	20
304	Thermal and bio-disintegration properties of poly(lactic acid)/natural rubber/organoclay nanocomposites. <i>Applied Clay Science</i> , <b>2014</b> , 93-94, 78-84	5.2	20
303	An overview of nanoparticles role in the improvement of barrier properties of bioplastics for food packaging applications <b>2017</b> , 391-424		20
302	Mapping of carbon nanotubes in the polystyrene domains of a polystyrene-b-polyisoprene-b-polystyrene block copolymer matrix using electrostatic force microscopy. <i>Carbon</i> , <b>2010</b> , 48, 2590-2595	10.4	20
301	Electrodeposited carbon nanotubes as template for the preparation of semi-transparent conductive thin films by in situ polymerization of methyl methacrylate. <i>Carbon</i> , <b>2007</b> , 45, 2685-2691	10.4	20
300	Polypropylene Crystallization in an Ethylene-propylene-diene Rubber Matrix. <i>Magyar Árvad Kémlelyek</i> , <b>2000</b> , 61, 437-450	0	20
299	Relationship between the optical and mechanical properties of fluorinated amorphous carbon thin films. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 291, 153-159	3.9	20
298	Application of modeling to the control and optimization of composites processing. <i>Composite Structures</i> , <b>1994</b> , 27, 129-139	5.3	20
297	A macrokinetic approach to crystallization modelling of semicrystalline thermoplastic matrices for advanced composites. <i>Journal of Materials Science</i> , <b>1993</b> , 28, 4994-5001	4.3	20
296	Enhancing the Radical Scavenging Activity and UV Resistance of Lignin Nanoparticles via Surface Mannich Amination toward a Biobased Antioxidant. <i>Biomacromolecules</i> , <b>2021</b> , 22, 2693-2701	6.9	20
295	Effect of hydroxytyrosol methyl carbonate on the thermal, migration and antioxidant properties of PVA-based films for active food packaging. <i>Polymer International</i> , <b>2016</b> , 65, 872-882	3.3	20
294	Bio-Polyethylene-Based Composites Reinforced with Alkali and Palmitoyl Chloride-Treated Coffee Silverskin. <i>Molecules</i> , <b>2019</b> , 24,	4.8	19
293	Mechanical and thermal properties of epoxy/silicon carbide nanofiber composites. <i>Polymers for Advanced Technologies</i> , <b>2015</b> , 26, 142-146	3.2	19
292	In-vitro degradation of PLGA nanoparticles in aqueous medium and in stem cell cultures by monitoring the cargo fluorescence spectrum. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 134, 296-304	4.7	19
291	Shape memory polymers: properties, synthesis and applications <b>2014</b> , 204-236		19
290	Melt processing and mechanical property characterization of high-performance poly(ether ether ketone)carbon nanotube composite. <i>Polymer International</i> , <b>2017</b> , 66, 1731-1736	3.3	19
289	Self-assembly of photoresponsive [2.2]paracyclophane-derivative nanostripes on a conducting surface with modified wettability. <i>Small</i> , <b>2007</b> , 3, 1200-3	11	19

288	Modelling primary recrystallization and grain growth in a low nickel austenitic stainless steel. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 593-601	4.3	19
287	Comparative Study of the Effects of Different Fibers on the Processing and Properties of Polypropylene Matrix Composites. <i>Journal of Thermoplastic Composite Materials</i> , <b>2002</b> , 15, 337-353	1.9	19
286	Influence of the chemorheology of toughened epoxy matrices on the processing behavior of high performance composites. <i>Makromolekulare Chemie Macromolecular Symposia</i> , <b>1993</b> , 68, 41-56		19
285	Spin coated cellulose nanocrystal/silver nanoparticle films. <i>Carbohydrate Polymers</i> , <b>2014</b> , 113, 394-402	10.3	18
284	POSS vapor grafting on graphene oxide film. <i>Chemical Physics Letters</i> , <b>2012</b> , 537, 84-87	2.5	18
283	Effect of Fiber Surface Treatments on Thermo-Mechanical Behavior of Poly(Lactic Acid)/Phormium Tenax Composites. <i>Journal of Polymers and the Environment</i> , <b>2013</b> , 21, 881-891	4.5	18
282	Design of a nanocomposite substrate inducing adult stem cell assembly and progression toward an Epiblast-like or Primitive Endoderm-like phenotype via mechanotransduction. <i>Biomaterials</i> , <b>2017</b> , 144, 211-229	15.6	18
281	Influence of specific intermolecular interactions on the thermal and dielectric properties of bulk polymers: atomistic molecular dynamics simulations of Nylon 6. <i>Soft Matter</i> , <b>2017</b> , 13, 474-485	3.6	18
280	Revalorisation of Posidonia Oceanica as Reinforcement in Polyethylene/Maleic Anhydride Grafted Polyethylene Composites. <i>Journal of Renewable Materials</i> , <b>2014</b> , 2, 66-76	2.4	18
279	Natural fiber suspensions in thermoplastic polymers. I. Analysis of fiber damage during processing. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 103, 2501-2506	2.9	18
278	Anisotropic Electrical Transport Properties of Aligned Carbon Nanotube/PMMA Films Obtained by Electric-Field-Assisted Thermal Annealing. <i>Macromolecular Materials and Engineering</i> , <b>2008</b> , 293, 867-873	3.9	18
277	Wear resistance of a high-nitrogen austenitic stainless steel coated with nitrogenated amorphous carbon films. <i>Surface and Coatings Technology</i> , <b>2002</b> , 161, 224-231	4.4	18
276	The effects of surface treatments of fibers on the interfacial properties in single-fiber composites. <i>Journal of Adhesion Science and Technology</i> , <b>1991</b> , 5, 377-388	2	18
275	Mathematical modeling of the pultrusion of epoxy based composites. <i>Advances in Polymer Technology</i> , <b>1990</b> , 10, 251-264	1.9	18
274	Hydrophobic, UV resistant and dielectric polyurethane-nanolignin composites with good reprocessability. <i>Materials and Design</i> , <b>2020</b> , 196, 109150	8.1	18
273	Antimicrobial Properties and Cytocompatibility of PLGA/Ag Nanocomposites. <i>Materials</i> , <b>2016</b> , 9,	3.5	18
272	Modulation of Acid Hydrolysis Reaction Time for the Extraction of Cellulose Nanocrystals from Posidonia oceanica Leaves. <i>Journal of Renewable Materials</i> , <b>2016</b> , 4, 190-198	2.4	18
271	Effect of Different Compatibilizers on Sustainable Composites Based on a PHBV/PBAT Matrix Filled with Coffee Silverskin. <i>Polymers</i> , <b>2018</b> , 10,	4.5	18

270	Effect of nanohydroxyapatite, antibiotic, and mucosal defensive agent on the mechanical and thermal properties of glass ionomer cements for special needs patients. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 638-649	2.5	17
269	Non-covalently coated biopolymeric nanoparticles for improved tamoxifen delivery. <i>European Polymer Journal</i> , <b>2017</b> , 95, 348-357	5.2	17
268	A Photoresponsive Hybrid Nanomaterial Based on Graphene and Polyhedral Oligomeric Silsesquioxanes. <i>European Journal of Inorganic Chemistry</i> , <b>2012</b> , 2012, 5282-5287	2.3	17
267	Wettability and switching of electrical conductivity in UV irradiated graphene oxide films. <i>Diamond and Related Materials</i> , <b>2011</b> , 20, 871-874	3.5	17
266	Morphology and Photoelectrical Properties of Solution Processable Butylamine-Modified Graphene- and Pyrene-Based Organic Semiconductor. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11252-11257	3.8	17
265	Influence of Clay Modification on the Properties of Resol Nanocomposites. <i>Macromolecular Materials and Engineering</i> , <b>2008</b> , 293, 878-886	3.9	17
264	Synthesis and characterization of sPS/montmorillonite nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 100, 4957-4963	2.9	17
263	A deeper understanding of the photodesorption mechanism of aligned carbon nanotube thin films by impedance spectroscopy. <i>Thin Solid Films</i> , <b>2004</b> , 449, 105-112	2.2	17
262	Preparation of Alginate/Graphene Oxide Hybrid Films and Their Integration in Triboelectric Generators. <i>European Journal of Inorganic Chemistry</i> , <b>2015</b> , 2015, 1192-1197	2.3	16
261	Effect of alumina nanoparticles on the thermal properties of carbon fibre-reinforced composites. <i>Fire and Materials</i> , <b>2014</b> , 38, 339-355	1.8	16
260	Humidity-Activated Shape Memory Effects on Thermoplastic Starch/EVA Blends and Their Compatibilized Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , <b>2017</b> , 218, 1700388	2.6	16
259	Effect of silane coupling agents on basalt fiber-epoxidized vegetable oil matrix composite materials analyzed by the single fiber fragmentation technique. <i>Polymer Composites</i> , <b>2015</b> , 36, 1205-1212	2.2	16
258	Flexible triboelectric generator and pressure sensor based on poly[(R)-3-hydroxybutyric acid] biopolymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2014</b> , 52, 859-863	2.6	16
257	Production and properties of solvent-cast poly( $\epsilon$ -caprolactone) composites with carbon nanostructures. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 119, 3544-3552	2.9	16
256	Oil palm microcomposites: Processing and mechanical behavior. <i>Polymer Engineering and Science</i> , <b>2010</b> , 50, 1853-1863	2.3	16
255	Cure kinetics of epoxy/anhydride nanocomposite systems with added reactive flame retardants. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 94, 1676-1689	2.9	16
254	Effects of fluorine incorporation on the properties of amorphous carbon/p-type crystalline silicon heterojunction diodes. <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 321, 175-182	3.9	16
253	Structural, morphological, and mechanical properties of plasma deposited hydrogenated amorphous carbon thin films: Ar gas dilution effects. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2001</b> , 19, 1611-1616	2.9	16

252	The Opportunity of Valorizing Agricultural Waste, Through Its Conversion into Biostimulants, Biofertilizers, and Biopolymers. <i>Sustainability</i> , <b>2021</b> , 13, 2710	3.6	16
251	Thermomechanical, antioxidant and moisture behaviour of PVA films in presence of citric acid esterified cellulose nanocrystals. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 161, 617-626	7.9	15
250	Kinetic and chemorheological modeling of the vitrification effect of highly reactive poly(urethane-isocyanurate) thermosets. <i>Thermochimica Acta</i> , <b>2013</b> , 574, 88-97	2.9	15
249	Modelling of the chemorheological behavior of thermosetting polymer nanocomposites. <i>Polymer Composites</i> , <b>2009</b> , 30, 1-12	3	15
248	Mechanical and thermal properties of crab chitin reinforced carboxylated SBR composites. <i>EXPRESS Polymer Letters</i> , <b>2012</b> , 6, 396-409	3.4	15
247	Thermokinetic effect of the aging of epoxy matrix prepregs for high performance composites. <i>Polymer Composites</i> , <b>2002</b> , 23, 530-537	3	15
246	Effect of nitrogen addition on the elastic and structural properties of amorphous carbon thin films. <i>Thin Solid Films</i> , <b>2001</b> , 389, 315-320	2.2	15
245	Fluorinated amorphous carbon thin films: Analysis of the role of the plasma source frequency on the structural and optical properties. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2001</b> , 19, 2168-2173	2.9	15
244	UV Protective, Antioxidant, Antibacterial and Compostable Polylactic Acid Composites Containing Pristine and Chemically Modified Lignin Nanoparticles. <i>Molecules</i> , <b>2020</b> , 26,	4.8	15
243	Hydroxytyrosol as Active Ingredient in Poly(vinyl alcohol) Films for Food Packaging Applications. <i>Journal of Renewable Materials</i> , <b>2017</b> , 5, 81-95	2.4	14
242	Crystallization behavior of diblock copolymers based on PCL and PLLA biopolymers. <i>Journal of Applied Crystallography</i> , <b>2014</b> , 47, 1948-1957	3.8	14
241	Selective deposition of semiconducting single-walled carbon nanotubes onto amino-silane modified indium tin-oxide surface for the development of poly(3-hexylthiophene)/carbon-nanotube photovoltaic heterojunctions. <i>Carbon</i> , <b>2010</b> , 48, 861-867	10.4	14
240	Patterning of [2.2]paracyclophane derivative modified single-walled carbon nanotubes through grid-assisted deposition. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 484-488		14
239	Selective interaction of single-walled carbon nanotubes with conducting dendrimer. <i>Diamond and Related Materials</i> , <b>2006</b> , 15, 95-99	3.5	14
238	Adsorption of oxidizing gases on multiwalled carbon nanotubes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2004</b> , 22, 1450-1454	2.9	14
237	Electrically switchable carbon nanotubes hydrophobic surfaces. <i>Diamond and Related Materials</i> , <b>2005</b> , 14, 121-124	3.5	14
236	Chemical gating and photoconductivity of CF <sub>4</sub> plasma-functionalized single-walled carbon nanotubes with adsorbed butylamine. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 114320	2.5	14
235	Processability and mechanical properties of ternary composites PP/EPDM/GF. <i>Polymer Composites</i> , <b>2000</b> , 21, 377-386	3	14

234	Thermal analysis of thermoplastic matrices for advanced composite materials: poly(phenylene sulphide). <i>Thermochimica Acta</i> , <b>1992</b> , 199, 133-146	2.9	14
233	Effect of boron carbide nanoparticles on the thermal stability of carbon/phenolic composites. <i>Polymer Composites</i> , <b>2017</b> , 38, 1819-1827	3	13
232	Reinforcement effect of cellulose nanocrystals in thermoplastic polyurethane matrices characterized by different soft/hard segment ratio. <i>Polymer Engineering and Science</i> , <b>2017</b> , 57, 521-530	2.3	13
231	Multiscale computer simulation of polymer nanocomposites based on thermoplastics. <i>Polymer Science - Series C</i> , <b>2016</b> , 58, 2-15	1.1	13
230	Mechanical effect of static loading on endodontically treated teeth restored with fiber-reinforced posts. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2014</b> , 102, 384-94	3.5	13
229	Atomistic Molecular Dynamics Simulations of the Initial Crystallization Stage in an SWCNT-Polyetherimide Nanocomposite. <i>Polymers</i> , <b>2017</b> , 9,	4.5	13
228	Cure kinetics of a highly reactive silica/polyurethane nanocomposite. <i>Thermochimica Acta</i> , <b>2012</b> , 549, 172-178	2.9	13
227	Graphene based composites prepared through exfoliation of graphite platelets in methyl methacrylate/poly(methyl methacrylate). <i>Polymer International</i> , <b>2012</b> , 61, 1079-1083	3.3	13
226	Nanostructured physical gel of SBS block copolymer and Ag/DT/SBS nanocomposites. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 1287-1293	4.3	13
225	Enhancement of photoelectrical properties in polymer nanocomposites containing modified single-walled carbon nanotubes by conducting dendrimer. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 114305	2.5	13
224	A Silicone Treatment Compared to Traditional Natural Fiber Treatments: Effect on the Mechanical and Viscoelastic Properties of Jute/Vinylester Laminates. <i>Journal of Composite Materials</i> , <b>2007</b> , 41, 2005-2024	2.7	13
223	Ternary composites based on PP-EPDM blends reinforced with flax fibers. Part II: Mechanical properties/morphology relationship. <i>Polymer Engineering and Science</i> , <b>2003</b> , 43, 1031-1043	2.3	13
222	Pulsed plasma-induced alignment of carbon nanotubes. <i>Materials Letters</i> , <b>2003</b> , 57, 3699-3704	3.3	13
221	Rheology of short-fiber composites: A systematic approach. <i>Composite Structures</i> , <b>1994</b> , 27, 83-91	5.3	13
220	Blends of semicrystalline and amorphous polymeric matrices for high performance composites. <i>Polymer Composites</i> , <b>1992</b> , 13, 380-385	3	13
219	Controlled Release, Disintegration, Antioxidant, and Antimicrobial Properties of Poly (Lactic Acid)/Thymol/Nanoclay Composites. <i>Polymers</i> , <b>2020</b> , 12,	4.5	13
218	To What Extent Can Hyperelastic Models Make Sense the Effect of Clay Surface Treatment on the Mechanical Properties of Elastomeric Nanocomposites?. <i>Macromolecular Materials and Engineering</i> , <b>2017</b> , 302, 1700036	3.9	12
217	PBS-Based Green Copolymer as an Efficient Compatibilizer in Thermoplastic Inedible Wheat Flour/Poly(butylene succinate) Blends. <i>Biomacromolecules</i> , <b>2020</b> , 21, 3254-3269	6.9	12



216	Influence of Processing Conditions on Morphological, Thermal and Degradative Behavior of Nanocomposites Based on Plasticized Poly(3-hydroxybutyrate) and Organo-Modified Clay. <i>Journal of Polymers and the Environment</i> , <b>2016</b> , 24, 12-22	4.5	12
215	Thermal and mechanical characterisation of Phormium tenax-reinforced polypropylene composites. <i>Journal of Thermoplastic Composite Materials</i> , <b>2014</b> , 27, 1493-1503	1.9	12
214	Electrical characteristics of carbon nanotube doped composites. <i>Uspekhi Fizicheskikh Nauk</i> , <b>2015</b> , 185, 225-270	0.5	12
213	Biodegradable composite scaffolds: a strategy to modulate stem cell behaviour. <i>Recent Patents on Drug Delivery and Formulation</i> , <b>2013</b> , 7, 9-17	1.4	12
212	Anisotropic Electrical Transport Properties of Graphene Nanoplatelets/Pyrene Composites by Electric-Field-Assisted Thermal Annealing. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 16652-16656	3.8	12
211	Radiofrequency plasma assisted exfoliation and reduction of large-area graphene oxide platelets produced by a mechanical transfer process. <i>Chemical Physics Letters</i> , <b>2011</b> , 508, 285-288	2.5	12
210	High temperature resistance of a high nitrogen and low nickel austenitic stainless steel. <i>Journal of Materials Science Letters</i> , <b>2003</b> , 22, 691-693		12
209	Isothermal crystallization of poly(vinyl alcohol-co-ethylene). <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 89, 1071-1077	2.9	12
208	Effect of Grafted PP on the Properties of Thermoplastic Elastomers Based on PP-EPDM Blends. <i>Macromolecular Chemistry and Physics</i> , <b>2001</b> , 202, 1909-1916	2.6	12
207	Comparison of diamond-like carbon films synthesized by 2.45 GHz microwave and 13.56 MHz multi-jet radiofrequency plasma sources. <i>Diamond and Related Materials</i> , <b>2001</b> , 10, 920-926	3.5	12
206	Processing of short fiber reinforced polypropylene. II: Statistical study of the effects of processing conditions on the impact strength. <i>Polymer Engineering and Science</i> , <b>1999</b> , 39, 1880-1890	2.3	12
205	Drying and redispersion of plant cellulose nanofibers for industrial applications: a review. <i>Cellulose</i> , <b>2020</b> , 27, 10649-10670	5.5	12
204	Electrospinning of PCL-Based Blends: Processing Optimization for Their Scalable Production. <i>Materials</i> , <b>2020</b> , 13,	3.5	12
203	Effect of Almond Shell Waste on Physicochemical Properties of Polyester-Based Biocomposites. <i>Polymers</i> , <b>2020</b> , 12,	4.5	12
202	The role of clay modifier on cure characteristics and properties of epoxy/clay/carboxyl-terminated poly(butadiene-co-acrylonitrile) (CTBN) hybrid. <i>Materials Technology</i> , <b>2017</b> , 32, 171-177	2.1	11
201	Tensile Behavior of Thermoplastic Films from Wheat Flours as Function of Raw Material Baking Properties. <i>Journal of Polymers and the Environment</i> , <b>2016</b> , 24, 37-47	4.5	11
200	Biomimetic multifunctional materials: a review. <i>Emergent Materials</i> , <b>2019</b> , 2, 391-415	3.5	11
199	Toward Predictive Molecular Dynamics Simulations of Asphaltenes in Toluene and Heptane. <i>ACS Omega</i> , <b>2019</b> , 4, 20005-20014	3.9	11

198	Nanostructured morphology of a random P(DLLA-co-CL) copolymer. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 103	5	11
197	Multistimuli-responsive hydrogels of poly(2-acrylamido-2-methyl-1-propanesulfonic acid) containing graphene. <i>Colloid and Polymer Science</i> , <b>2013</b> , 291, 2681-2687	2.4	11
196	Effect of processing techniques on the 3D microstructure of poly (l-lactic acid) scaffolds reinforced with wool keratin from different sources. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	11
195	Nanocomposite hydrogels based on embedded PLGA nanoparticles in gelatin. <i>Nanocomposites</i> , <b>2015</b> , 1, 46-50	3.4	11
194	AC conductivity of conjugated polymer onto self-assembled aligned carbon nanotubes. <i>Diamond and Related Materials</i> , <b>2004</b> , 13, 250-255	3.5	11
193	Effect of catalyst layer thickness and Ar dilution on the plasma deposition of multi-walled carbon nanotubes. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 821-826	3.5	11
192	Use of Benzene-1,3-Bis(Sulfonyl)Azide as Crosslinking Agent of TPVs Based on EPDM Rubber/Polyolefin Blends. <i>Rubber Chemistry and Technology</i> , <b>2001</b> , 74, 198-210	1.7	11
191	Processing, properties and morphology of polypropylene-epdm blends. <i>Macromolecular Symposia</i> , <b>1999</b> , 148, 345-360	0.8	11
190	Melt-processing of bionanocomposites based on ethylene-co-vinyl acetate and starch nanocrystals. <i>Carbohydrate Polymers</i> , <b>2019</b> , 208, 382-390	10.3	11
189	Lignin Nanoparticles: A Promising Tool to Improve Maize Physiological, Biochemical, and Chemical Traits. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	11
188	Highly-toughened PVA/nanocellulose hydrogels with anti-oxidative and antibacterial properties triggered by lignin-Ag nanoparticles. <i>Materials Science and Engineering C</i> , <b>2021</b> , 129, 112385	8.3	11
187	Nanomaterials in Plant Protection <b>2017</b> , 113-134		10
186	Design, development and characterization of a nanomagnetic system based on iron oxide nanoparticles encapsulated in PLLA-nanospheres. <i>European Polymer Journal</i> , <b>2015</b> , 62, 145-154	5.2	10
185	Polyethylene/sepiolite fibers. Influence of drawing and nanofiller content on the crystal morphology and mechanical properties. <i>Polymer Engineering and Science</i> , <b>2015</b> , 55, 1096-1103	2.3	10
184	Organic and Inorganic PCL-Based Electrospun Fibers. <i>Polymers</i> , <b>2020</b> , 12,	4.5	10
183	Bio-Based Nanocomposites in Food Packaging <b>2018</b> , 71-110		10
182	Acoustic impact of a wave energy converter in Mediterranean shallow waters. <i>Scientific Reports</i> , <b>2019</b> , 9, 9586	4.9	10
181	Effects of dielectric barrier discharge in air on morphological and electrical properties of graphene nanoplatelets and multi-walled carbon nanotubes. <i>Journal of Physics and Chemistry of Solids</i> , <b>2014</b> , 75, 858-868	3.9	10

180	Nanostructured polystyrene films engineered by plasma processes: Surface characterization and stem cell interaction. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	10
179	Effect of extrusion conditions and post-extrusion techniques on the morphology and thermal/mechanical properties of polycaprolactone/clay nanocomposites. <i>Journal of Composite Materials</i> , <b>2014</b> , 48, 2059-2070	2.7	10
178	The effect of processing routes on the thermal and mechanical properties of poly(urethane-isocyanurate) nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	10
177	Liquid Droplet excitation of freestanding poly(methyl methacrylate)/graphene oxide films for mechanical energy harvesting. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2013</b> , 51, 1028-1032	2.6	10
176	Statistical analysis of the mechanical properties of natural fibers and their composite materials. II. Composite materials. <i>Polymer Composites</i> , <b>2008</b> , 29, 321-325	3	10
175	Processing and properties of recycled polypropylene modified with elastomers. <i>Plastics, Rubber and Composites</i> , <b>2003</b> , 32, 357-367	1.5	10
174	Ternary composites based on PP-EPDM blends reinforced with flax fibers. Part I: Processing and thermal behavior. <i>Polymer Engineering and Science</i> , <b>2003</b> , 43, 1018-1030	2.3	10
173	Deposition of hydrogenated amorphous carbon films from CH <sub>4</sub> /Ar plasmas: Ar dilution effects. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 5295-5300	4.3	10
172	Influence of plasma source frequency on composition and density of fluorinated amorphous carbon thin films. <i>Materials Letters</i> , <b>2001</b> , 51, 514-518	3.3	10
171	Structure and mechanical properties of argon assisted carbon nitride films. <i>Thin Solid Films</i> , <b>2001</b> , 398-399, 124-129	2.2	10
170	Processing and properties of resol and epoxy blends for resin transfer molding. <i>Polymer Composites</i> , <b>1999</b> , 20, 675-682	3	10
169	Modeling of the dynamic mechanical properties of semicrystalline thermoplastic matrix composites. <i>Polymer Composites</i> , <b>1992</b> , 13, 386-393	3	10
168	Poly(butylene cyclohexanedicarboxylate/diglycolate) random copolymers reinforced with SWCNTs for multifunctional conductive biopolymer composites. <i>EXPRESS Polymer Letters</i> , <b>2016</b> , 10, 111-124	3.4	10
167	Antioxidant Packaging Films Based on Ethylene Vinyl Alcohol Copolymer (EVOH) and Caffeic Acid. <i>Molecules</i> , <b>2020</b> , 25,	4.8	10
166	Analysis and simulation of the electrical properties of CNTs/epoxy nanocomposites for high performance composite matrices. <i>Polymer Composites</i> , <b>2017</b> , 38, 105-115	3	9
165	Effect of Lemon Waste Natural Dye and Essential Oil Loaded into Laminar Nanoclays on Thermomechanical and Color Properties of Polyester Based Bionanocomposites. <i>Polymers</i> , <b>2020</b> , 12,	4.5	9
164	CTAB modified dellite: A novel support for enzyme immobilization in bio-based electrochemical detection and its in vitro antimicrobial activity. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 235, 46-55	8.5	9
163	Nanofillers in Polymers <b>2017</b> , 47-86		9

162	Nanofibrillar self-organization of regioregular poly(3-hexylthiophene) and [6,6]-phenyl C(61)-butyric acid methyl ester by dip-coating: a simple method to obtain efficient bulk heterojunction solar cells. <i>Nanotechnology</i> , <b>2009</b> , 20, 095603	3.4	9
161	Surfactant effects on morphology-properties relationships of silver-poly(styrene-b-isoprene-b-styrene) block copolymer nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 2128-39	1.3	9
160	Compatibilization and development of layered silicate nanocomposites based of unsaturated polyester resin and customized intercalation agent. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 115, 3659-3666	3.0	9
159	Solution casting of transparent and conductive carbon nanotubes/poly(3,4-ethylenedioxythiophene)/poly(styrenesulfonate) films under a magnetic field. <i>Carbon</i> , <b>2008</b> , 46, 1513-1517	10.4	9
158	Electrodeposition of polyfluorene on a carbon nanotube electrode. <i>Nanotechnology</i> , <b>2007</b> , 18, 115702	3.4	9
157	Structural and optical properties of nitrogen and oxygen doped a-C:H coatings. <i>Thin Solid Films</i> , <b>2002</b> , 415, 195-200	2.2	9
156	Influence of grain size and film composition on wear resistance of ultra fine grained AISI 304 stainless steel coated with amorphous carbon films. <i>Wear</i> , <b>2002</b> , 253, 458-464	3.5	9
155	Electrical transport properties of conjugated polymer onto self-assembled aligned carbon nanotubes. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 1524-1531	3.5	9
154	Controllable fabrication of aligned carbon nanotubes by pulsed plasma: selective positioning and electrical transport phenomena. <i>Materials Letters</i> , <b>2004</b> , 58, 470-473	3.3	9
153	Interaction of oxygen with nanocomposites made of n-type conducting polymers and carbon nanotubes: role of charge transfer complex formation between nanotubes and poly(3-octylthiophene). <i>Thin Solid Films</i> , <b>2005</b> , 476, 162-167	2.2	9
152	Kinetic crystallization of polypropylene in ternary composites based on fiber-reinforced PP-EPDM blends. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 81, 1063-1074	2.9	9
151	Thermal analysis of standard and toughened high-performance epoxy matrices. <i>Thermochimica Acta</i> , <b>1992</b> , 199, 213-227	2.9	9
150	Flexible Transistors Exploiting P3HT on Paper Substrate and Graphene Oxide Film as Gate Dielectric: Proof of Concept. <i>Science of Advanced Materials</i> , <b>2013</b> , 5, 530-533	2.3	9
149	Tensile, Thermal and Morphological Characterization of Cocoa Bean Shells (CBS)/Polycaprolactone-Based Composites. <i>Journal of Renewable Materials</i> , <b>2016</b> , 4, 199-205	2.4	9
148	Effect of nano-magnetite particle content on mechanical, thermal and magnetic properties of polypropylene composites. <i>Polymer Composites</i> , <b>2018</b> , 39, E1742-E1750	3	8
147	Poly(methyl methacrylate)/graphene oxide layered films as generators for mechanical energy harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 3770-5	9.5	8
146	Emerging methods for producing graphene oxide composites in coatings with multifunctional properties. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 21355		8
145	Mechanical Properties Evaluation of a Recycled Flax Fiber-reinforced Vinyl Ester. <i>Journal of Composite Materials</i> , <b>2006</b> , 40, 245-256	2.7	8

144	Nitrogen doping of fluorinated amorphous carbon thin films: structural and optical properties evolution upon thermal annealing. <i>Thin Solid Films</i> , <b>2002</b> , 408, 291-296	2.2	8
143	Ar dilution effects on the elastic properties of hydrogenated amorphous hard-carbon films grown by plasma-enhanced chemical vapor deposition. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 1003-1007	2.5	8
142	Helium permeation through a-C:H films deposited on polymeric substrates. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2002</b> , 20, 1647-1652	2.9	8
141	Lignocellulosic Based Bionanocomposites for Different Industrial Applications. <i>Current Organic Chemistry</i> , <b>2018</b> , 22, 1205-1221	1.7	8
140	Graphene nanoplatelet, multiwall carbon nanotube, and hybrid multiwall carbon nanotube/graphene nanoplatelet epoxy nanocomposites as strain sensing coatings. <i>Journal of Reinforced Plastics and Composites</i> , <b>2021</b> , 40, 632-643	2.9	8
139	Hydroxytyrosol and Oleuropein-Enriched Extracts Obtained from Olive Oil Wastes and By-Products as Active Antioxidant Ingredients for Poly (Vinyl Alcohol)-Based Films. <i>Molecules</i> , <b>2021</b> , 26,	4.8	8
138	Computer Simulation of Asphaltenes. <i>Petroleum Chemistry</i> , <b>2018</b> , 58, 983-1004	1.1	8
137	Relationships between wheat flour baking properties and tensile characteristics of derived thermoplastic films. <i>Industrial Crops and Products</i> , <b>2017</b> , 100, 138-145	5.9	7
136	Extraction of nanostructured starch from purified granules of waxy and non-waxy barley cultivars. <i>Industrial Crops and Products</i> , <b>2019</b> , 130, 520-527	5.9	7
135	Active Role of ZnO Nanorods in Thermomechanical and Barrier Performance of Poly(vinyl alcohol-ethylene) Formulations for Flexible Packaging. <i>Polymers</i> , <b>2019</b> , 11,	4.5	7
134	Multifunctional antimicrobial nanocomposites for food packaging applications <b>2017</b> , 265-303		7
133	Glass optical fibre sensors for detection of through thickness moisture diffusion in glass reinforced composites under hostile environments. <i>Advances in Applied Ceramics</i> , <b>2015</b> , 114, S76-S83	2.3	7
132	Hot press transferring of graphene nanoplatelets on polyurethane block copolymers film for electroactive shape memory devices. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2014</b> , 52, 1100-1106	2.6	7
131	Relationship between Water Absorption and Dielectric Behavior of Glass Fiber Reinforced Unsaturated Polyester Resin. <i>Journal of Composite Materials</i> , <b>2007</b> , 41, 393-402	2.7	7
130	Cavitation erosion resistance of a high nitrogen austenitic stainless steel as a function of its grain size. <i>Journal of Materials Science Letters</i> , <b>2003</b> , 22, 981-983		7
129	Effects of storage aging on the cure kinetics of bismaleimide prepreps. <i>Advances in Polymer Technology</i> , <b>2005</b> , 24, 253-265	1.9	7
128	Clustering, glass transition and gelation in a reactive fluid. <i>Journal of Physics Condensed Matter</i> , <b>2005</b> , 17, S3557-S3563	1.8	7
127	Temperature and crystallinity profiles generated in a polycaprolactone/starch blend under different cooling conditions. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 82, 3275-3283	2.9	7

126	Cure kinetics of dicyanate matrix polymers. <i>Polymer Composites</i> , <b>1992</b> , 13, 191-196	3	7
125	Short- and long-term degradation of polymer-based composites. <i>Thermochimica Acta</i> , <b>1993</b> , 227, 97-106	2.9	7
124	Novel Nanocomposite PLA Films with Lignin/Zinc Oxide Hybrids: Design, Characterization, Interaction with Mesenchymal Stem Cells. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	7
123	Effect of SWCNT introduction in random copolymers on material properties and fibroblast long term culture stability. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 132, 220-230	4.7	7
122	Life Cycle Analysis of Extruded Films Based on Poly(lactic acid)/Cellulose Nanocrystal/Limonene: A Comparative Study with ATBC Plasticized PLA/OMMT Systems. <i>Journal of Polymers and the Environment</i> , <b>2018</b> , 26, 1891-1902	4.5	7
121	Solvent Uptake of Liquid Rubber Toughened Epoxy/Clay Nanocomposites. <i>Advances in Polymer Technology</i> , <b>2016</b> , 35,	1.9	6
120	Effect of polymer chain stiffness on initial stages of crystallization of polyetherimides: Coarse-grained computer simulation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2017</b> , 55, 1254-1265	2.6	6
119	Improved Toughness in Lignin/Natural Fiber Composites Plasticized with Epoxidized and Maleinized Linseed Oils. <i>Materials</i> , <b>2020</b> , 13,	3.5	6
118	Thermomechanical and Morphological Properties of Poly(ethylene terephthalate)/Anhydrous Calcium Terephthalate Nanocomposites. <i>Polymers</i> , <b>2020</b> , 12,	4.5	6
117	Inclusion of PLLA nanoparticles in thermosensitive semi-interpenetrating polymer networks. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 108, 280-287	4.7	6
116	The relationship between nanosilica dispersion degree and the tensile properties of polyurethane nanocomposites. <i>Colloid and Polymer Science</i> , <b>2013</b> , 291, 2745-2753	2.4	6
115	Shear induced orientation of phase segregated block copolymer/epoxy blends. <i>European Polymer Journal</i> , <b>2013</b> , 49, 3359-3365	5.2	6
114	Nanocomposites Based on PLLA and Multi Walled Carbon Nanotubes Support the Myogenic Differentiation of Murine Myoblast Cell Line <b>2013</b> , 2013, 1-8		6
113	New anthracene-containing phenylene- or thienylene-vinylene copolymers: Synthesis, characterization, photophysics, and photovoltaics. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 113, 1173-1181	2.9	6
112	Electrodeposition of carbon nanotube semi-transparent thin films: A facile route for preparing photoactive polymeric hybrid materials. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 1573-1576	3.5	6
111	Effect of thermal annealing on the electronic properties of nitrogen doped amorphous carbon/p-type crystalline silicon heterojunction diodes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2003</b> , 21, 582-588	2.9	6
110	Radiation effects on room temperature epoxy adhesive molecular structure: Mechanical tests and correlation with calorimetric and outgassing analyses. <i>Journal of Macromolecular Science - Physics</i> , <b>1999</b> , 38, 623-633	1.4	6
109	Functionalization of Wood Waste and Its Use in Polyester Type Composite. A Preliminary Study. <i>Journal of Polymer Engineering</i> , <b>1995</b> , 14,	1.4	6



108	Development and Characterization of Xanthan Gum and Alginate Based Bioadhesive Film for Pycnogenol Topical Use in Wound Treatment. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	6
107	Multifunctional and Environmentally Friendly TiO-SiO Mesoporous Materials for Sustainable Green Buildings. <i>Molecules</i> , <b>2019</b> , 24,	4.8	6
106	Lignocellulosic materials as reinforcements in sustainable packaging systems <b>2019</b> , 87-102		5
105	Thermal and mechanical behavior of thermoplastic composites reinforced with fibers enzymatically extracted from <i>Ampelodesmos mauritanicus</i> . <i>Polymer Engineering and Science</i> , <b>2019</b> , 59, 2418-2428	2.3	5
104	Effect of SWCNT Content and Water Vapor Adsorption on the Electrical Properties of Cellulose Nanocrystal-Based Nanohybrids. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 14901-14910	3.8	5
103	Characterization of Licorice Root Waste for Prospective Use as Filler in more Eco-Friendly Composite Materials. <i>Processes</i> , <b>2020</b> , 8, 733	2.9	5
102	Effect of Cellulose Nanocrystals on Fire, Thermal and Mechanical Behavior of N,N'-Diallyl-phenylphosphoricdiamide Modified Poly(lactic acid). <i>Journal of Renewable Materials</i> , <b>2017</b> , 5, 423-434	2.4	5
101	An Armadillo-Like Flexible Thermal Protection System for Inflatable Decelerators: A Novel Paradigm. <i>Macromolecular Materials and Engineering</i> , <b>2014</b> , 299, 379-390	3.9	5
100	Scanning Electron Microscopy Evaluation of Dental Root Resorption Associated With Granuloma. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1264-70	0.5	5
99	Manufacturing of Natural Fiber/Agrowaste Based Polymer Composites. <i>Green Energy and Technology</i> , <b>2017</b> , 125-147	0.6	5
98	Structural aspects of mechanical properties of iPP-based composites. I. Composite iPP fibers with VGCF nanofiller. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	5
97	A polycaprolactone-based compatibilization treatment to improve dispersion and interphase structure of silica polyurethane composites. <i>Polymer Engineering and Science</i> , <b>2014</b> , 54, 1817-1826	2.3	5
96	Dielectric properties at microwave frequencies of poly( $\epsilon$ -caprolactone)/CNF films and electrospun mats. <i>Synthetic Metals</i> , <b>2011</b> , 161, 911-918	3.6	5
95	Electric field assisted thermal annealing reorganization of graphene oxide/polystyrene latex films. <i>EXPRESS Polymer Letters</i> , <b>2011</b> , 5, 819-824	3.4	5
94	Cure characteristics, mechanical properties, and morphological studies of linoleum flour-filled NBR compounds. <i>Polymer Engineering and Science</i> , <b>2004</b> , 44, 909-916	2.3	5
93	Synthesis and electrical properties of CdS Langmuir-Blodgett multilayers nanoparticles on self-assembled carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2004</b> , 392, 214-219	2.5	5
92	Fluorinated amorphous carbon thin films: Analysis of the role of the plasma excitation mode on the structural and mechanical properties. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2003</b> , 21, 1964-1970	2.9	5
91	Fluorinated amorphous carbon films prepared by plasma enhanced chemical vapor deposition for solar cell applications. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2003</b> , 21, 1784-1790	2.9	5

90	Soft-x-ray photoemission spectroscopy and ab initio studies on the adsorption of NO <sub>2</sub> molecules on defective multiwalled carbon nanotubes. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 34702	3.9	5
89	Hydrogen concentrations and mass density obtained by X-ray and neutron reflectivity on hydrogenated amorphous carbon nitride thin films. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 1188-1192	3.5	5
88	Analysis of the role of fluorine content on the thermal stability of a-C:H:F thin films. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 1100-1105	3.5	5
87	Influence of nitrogen and temperature on the plasma deposition of fluorinated amorphous carbon films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2002</b> , 20, 1210-1215	2.9	5
86	Degradation Kinetics of High-Performance Polymers and Their Composites. <i>ACS Symposium Series</i> , <b>1995</b> , 140-154	0.4	5
85	Effect of Pretreatment of Nanocomposite PES-Fe <sub>3</sub> O <sub>4</sub> Separator on Microbial Fuel Cells Performance. <i>Polymer Engineering and Science</i> , <b>2020</b> , 60, 371-379	2.3	5
84	A Novel Class of Cost Effective and High Performance Composites Based on Terephthalate Salts Reinforced Polyether Ether Ketone. <i>Polymers</i> , <b>2019</b> , 11,	4.5	5
83	Multiscale modeling of electrical conductivity of carbon nanotubes based polymer nanocomposites. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 225102	2.5	4
82	Effect of Chlorophyll Hybrid Nanopigments from Broccoli Waste on Thermomechanical and Colour Behaviour of Polyester-Based Bionanocomposites. <i>Polymers</i> , <b>2020</b> , 12,	4.5	4
81	Okra Fibres as Potential Reinforcement in Biocomposites <b>2014</b> , 175-190		4
80	Thermal Degradation Effects on Polyurethanes and Their Nanocomposites <b>2015</b> , 165-189		4
79	The role of the interphase on the shear induced failure of multiwall carbon nanotubes reinforced epoxy nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	4
78	Composites Based on Nanocomposite Matrices <b>2011</b> , 1		4
77	Development of unsaturated polyester matrix [Carbon nanofibers nanocomposites with improved electrical properties. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 117, NA-NA	2.9	4
76	Analysis of the effects of the polymerization route of ethylene-propylene-diene rubbers (EPDM) on the properties of polypropylene-EPDM blends. <i>Journal of Applied Polymer Science</i> , <b>2002</b> , 85, 25-37	2.9	4
75	Fabrication of water-resistant epoxy nanocomposite with improved dynamic mechanical properties and balanced thermal and dimensional stability: Study on dual role of graphene oxide nanosheets and barium oxide microparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 617, 126405	5.1	4
74	Anthocyanin Hybrid Nanopigments from Pomegranate Waste: Colour, Thermomechanical Stability and Environmental Impact of Polyester-Based Bionanocomposites. <i>Polymers</i> , <b>2021</b> , 13,	4.5	4
73	Strain sensitivity of carbon nanotube cement-based composites for structural health monitoring <b>2016</b> ,		4

72	Synthesis and Characterization of Nanofluids Useful in Concentrated Solar Power Plants Produced by New Mixing Methodologies for Large-Scale Production. <i>Journal of Heat Transfer</i> , <b>2018</b> , 140,	1.8	4
71	Structure-property relationships of thermoset nanocomposites <b>2018</b> , 231-276		4
70	PLA Electrospun Fibers Reinforced with Organic and Inorganic Nanoparticles: A Comparative Study. <i>Molecules</i> , <b>2021</b> , 26,	4.8	4
69	Determination of the crystallization enthalpy of new-TPI. <i>Journal of Applied Polymer Science</i> , <b>1998</b> , 67, 763-766	2.9	4
68	Transfer writing of foldable graphene nanoplatelet patterns on paper substrates. <i>Materials Letters</i> , <b>2013</b> , 113, 54-58	3.3	3
67	Vulcanization Characteristics and Curing Kinetic of Rubber/Organoclay Nanocomposites <b>2011</b> , 275-303		3
66	Processing and Final Properties Improvement of Polyolefin-Sepiolite and Carbon Nanofibre Nanocomposites. <i>Macromolecular Symposia</i> , <b>2011</b> , 301, 128-135	0.8	3
65	Dynamic mechanical analysis of oil palm microfibril-reinforced acrylonitrile butadiene rubber composites. <i>Polymer Composites</i> , <b>2009</b> , 31, NA-NA	3	3
64	Influence of atmospheric humidity and grain size on the friction and wear of high nitrogen austenitic stainless steel. <i>Journal of Materials Science</i> , <b>2004</b> , 39, 1481-1484	4.3	3
63	The Effect of Grain Size on the Mechanical and Cavitation Resistance of a High Nitrogen and Low Nickel Austenitic Stainless Steel. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 975-980	0.4	3
62	Rheology of thermoplastic matrix short glass fiber composites. <i>Journal of Vinyl and Additive Technology</i> , <b>1995</b> , 1, 269-272	2	3
61	Thermal and chemorheological modelling of the processing of advanced epoxy based composites. <i>Makromolekulare Chemie Macromolecular Symposia</i> , <b>1989</b> , 25, 45-54		3
60	Viscoelastic Characterization of Reinforced Polyester Foams. <i>Journal of Cellular Plastics</i> , <b>1988</b> , 24, 473-485		3
59	Conclusive editorial on non-destructive techniques for cultural heritage. <i>Rendiconti Lincei</i> , <b>2020</b> , 31, 819-820	3.7	3
58	Computational Modeling of Polylactide and Its Cellulose-Reinforced Nanocomposites <b>2016</b> , 313-341		3
57	Microstructure and cytocompatibility of electrospun nanocomposites based on poly(epsilon-caprolactone) and carbon nanostructures. <i>International Journal of Artificial Organs</i> , <b>2010</b> , 33, 271-82	1.9	3
56	Nanofluids with Enhanced Heat Transfer Properties for Thermal Energy Storage <b>2017</b> , 295-359		2
55	Electrospun Fibers Based on Biopolymers <b>2016</b> , 385-438		2

54	Polyethylene-based nanocomposite films: Structure/properties relationship. <i>Polymer Engineering and Science</i> , <b>2014</b> , 54, 1931-1940	2.3	2
53	8 Injection moulding of plant fibre composites <b>2017</b> , 420-439		2
52	Chapter 8:Methods for Improving the Integration of Functionalized Carbon Nanotubes in Polymers. <i>RSC Nanoscience and Nanotechnology</i> , <b>2013</b> , 234-252		2
51	Realization of porous poly(methyl methacrylate) films filled with electrodeposited carbon nanotubes. <i>Nanotechnology</i> , <b>2008</b> , 19, 295301	3.4	2
50	PHENOLIC MATRIX NANOCOMPOSITES BASED ON COMMERCIAL GRADE RESOLS SYNTHESIS, CHARACTERIZATION AND COMPARISON WITH MICROCOMPOSITES. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	2
49	Uncovering regulator's (implicit) social welfare weights under price cap regulation. <i>Economics Letters</i> , <b>2006</b> , 90, 1-5	1.3	2
48	Wear Resistance of Fine-Grained High Nitrogen Austenitic Stainless Steel Coated with Amorphous Carbon Films: The Soft X-ray Spectroscopy Approach. <i>Tribology Letters</i> , <b>2004</b> , 16, 51-58	2.8	2
47	Structural changes of fluorinated amorphous carbon films by nitrogen incorporation. <i>Materials Science in Semiconductor Processing</i> , <b>2002</b> , 5, 271-277	4.3	2
46	Spectroscopic analysis of the structure of amorphous nitrogenated carbon films after wear tests. <i>Thin Solid Films</i> , <b>2003</b> , 423, 108-114	2.2	2
45	Modelling Primary Recrystallization and Grain Growth in the AISI 316 Stainless Steel. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 1011-1016	0.4	2
44	Design of Intrinsically Flame-Retardant Vanillin-Based Epoxy Resin for Thermal-Conductive Epoxy/Graphene Aerogel Composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	2
43	STRAIN-SENSING CARBON NANOTUBE CEMENT-BASED COMPOSITES FOR APPLICATIONS IN STRUCTURAL HEALTH MONITORING: PREPARATION AND MODELLING ISSUES <b>2015</b> ,		2
42	An innovative approach to gas sensing using carbon nanotubes thin films: sensitivity, selectivity and stability response analysis		2
41	Biocomposites Based on Plasticized Wheat Flours: Effect of Bran Content on Thermomechanical Behavior. <i>Polymers</i> , <b>2020</b> , 12,	4.5	2
40	Migration and Degradation in Composting Environment of Active Polylactic Acid Bilayer Nanocomposites Films: Combined Role of Umbelliferone, Lignin and Cellulose Nanostructures. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2
39	Thermoset Nanocomposites as ablative materials for rocket and military applications <b>2018</b> , 477-509		2
38	Evaluation of the Factors Affecting the Disintegration under a Composting Process of Poly(lactic acid)/Poly(3-hydroxybutyrate) (PLA/PHB) Blends. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2
37	Multifunctional nanostructured biopolymeric materials for therapeutic applications <b>2017</b> , 107-135		1

36	Stimuli-responsive core-shell nanoparticles <b>2018</b> , 245-258		1
35	CHAPTER 6:Electrospinning of PLA. <i>RSC Polymer Chemistry Series</i> , <b>2014</b> , 171-194	1.3	1
34	Preparation and characterization of nickel chelating functionalized poly (lactic-co-glycolic acid) microspheres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 468, 122-128	5.1	1
33	Processing and Characterization of Nano-biocomposites Based on Mater-Bi□ with Layered Silicates. <i>Journal of Renewable Materials</i> , <b>2014</b> , 2, 42-51	2.4	1
32	Multifunctional Ternary Polymeric Nanocomposites Based on Cellulosic Nanoreinforcements <b>2014</b> , 163-198		1
31	Epoxy□carbon nanotube composites <b>2011</b> , 230-261		1
30	Organized fluidic assembly of single-walled carbon nanotubes onto fluorine-doped tin-oxide surface with modified wettability. <i>Carbon</i> , <b>2008</b> , 46, 372-375	10.4	1
29	Ar dilution effects on hydrogen concentration and mass density obtained by X-ray and neutron reflectivity on hydrogenated amorphous nitride thin films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2002</b> , 74, s1104-s1106	2.6	1
28	Ozone reactivity with carbon nanotubes: experimental and theoretical studies		1
27	Wear resistance of a high nitrogen austenitic stainless steel coated with amorphous carbon films: influence of grain size and film composition. <i>Materials Letters</i> , <b>2003</b> , 57, 1281-1287	3.3	1
26	A study of cosmic ray secondaries induced by the Mir space station using AMS-01. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2005</b> , 234, 321-332	1.2	1
25	Study of the Crystallization of an Aromatic Poly-ether-ketone (PK99) by Calorimetric and X-ray Analysis. <i>Magyar Áprilad Kēlemāyek</i> , <b>2000</b> , 61, 565-578	0	1
24	Analysis of the Ductility on Short Fiber Reinforced Polypropylene Plates. <i>Journal of Elastomers and Plastics</i> , <b>2000</b> , 32, 302-310	1.6	1
23	Thermal Characterization of the Cure Kinetics of Advanced Matrices for High-Performance Composites. <i>Advances in Chemistry Series</i> , <b>1993</b> , 539-557		1
22	Lemna minor aqueous extract as a natural ingredient incorporated in poly (vinyl alcohol)-based films for active food packaging systems. <i>Food Packaging and Shelf Life</i> , <b>2022</b> , 32, 100822	8.2	1
21	Cure Kinetics of Epoxy/Rubber Polymer Blends <b>2017</b> , 211-237		1
20	Polymeric Bioadhesive Patch Based on Ketoprofen-Hydrotalcite Hybrid for Local Treatments. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	1
19	Preparation of toughened poly(lactic acid)-poly(ε-caprolactone)-lignin nanocomposites with good heat- and UV-resistance. <i>Industrial Crops and Products</i> , <b>2022</b> , 183, 114965	5.9	1

- 18 Science and Technology of Polymer Composites **1989**, 471-525 ○
- 17 Polymeric composites and nanocomposites containing lignin **2022**, 293-324 ○
- 16 The Initial Stage of Thermoplastic Polyimide Crystallization: Computer Simulations and Experiments. *Reviews and Advances in Chemistry*, **2021**, 11, 85-99 ○ ○
- 15 Lignin-based materials with antioxidant and antimicrobial properties **2021**, 291-326 ○
- 14 Physicochemical properties of nanosized polymeric drug carrier systems **2018**, 7-17
- 13 Recent Advances in Conductive Composites Based on Biodegradable Polymers for Regenerative Medicine Applications **2017**, 519-542
- 12 Engineering Biodegradable Polymers to Control Their Degradation and Optimize Their Use as Delivery and Theranostic Systems **2015**, 557-576
- 11 Cure Kinetics of Epoxy/Rubber Polymer Blends **2015**, 1-27
- 10 Biodegradable Composite Scaffolds: A Strategy to Modulate Stem Cell Behaviour. *Recent Patents on Drug Delivery and Formulation*, **2012**, 7, 9-17 1.4
- 9 Modeling of the Chemorheological Behavior of Thermosetting Polymer Nanocomposites **2013**, 255-287
- 8 LIGHT INDUCED CHANGE IN CONDUCTIVITY OF GRAPHENE OXIDE FILMS PATTERNED BY METAL MASKS. *Functional Materials Letters*, **2012**, 05, 1250034 1.2
- 7 Cavitation Erosion and Friction Behavior of Stainless Steel as a Function of Grain Size. *Materials Research Society Symposia Proceedings*, **2003**, 782, 1
- 6 CHEMORHEOLOGY AND CURING KINETICS OF TOUGHENED EPOXY MATRICES FOR HIGH PERFORMANCE COMPOSITES **1992**, 868-870
- 5 Integration of Processing Models with Control and Optimization of Polymer Composites Fabrication **1992**, 529-544
- 4 Science and Technology of Polymer Composites **1993**, 321-357
- 3 Skin Tissue Engineering **2017**, 1408-1423
- 2 Recent Advances in Nanostructured Polymeric Surface: Challenges and Frontiers in Stem Cells **2016**, 143-165
- 1 Nanocomposites based on ethylene vinyl acetate reinforced with different types of nanoparticles: potential applications **2021**, 357-377



