Jos L Vilas

List of Publications by Citations

193 papers	4,071 citations	36 h-index	51 g-index
205 ext. papers	4,967 ext. citations	4.6 avg, IF	5.89 L-index

#	Paper	IF	Citations
193	PLLA-grafted cellulose nanocrystals: Role of the CNC content and grafting on the PLA bionanocomposite film properties. *Carbohydrate Polymers*, **2016**, 142, 105-13	10.3	128
192	State-of-the-Art and Future Challenges of UV Curable Polymer-Based Smart Materials for Printing Technologies. *Advanced Materials Technologies*, **2019**, 4, 1800618	6.8	117
191	Crystallization, structural relaxation and thermal degradation in Poly(L-lactide)/cellulose nanocrystal renewable nanocomposites. *Carbohydrate Polymers*, **2015**, 123, 256-65	10.3	117
190	MonoRes: Automatic and Accurate Estimation of Local Resolution for Electron Microscopy Maps. *Structure*, **2018**, 26, 337-344.e4	5.2	109
189	Effects of phenolic resin pyrolysis conditions on carbon membrane performance for gas separation. *Journal of Membrane Science*, **2004**, 228, 45-54	9.6	102
188	Development of magnetoelectric CoFe2O4 /poly(vinylidene fluoride) microspheres. *RSC Advances*, **2015**, 5, 35852-35857	3.7	69
187	Silk fibroin-magnetic hybrid composite electrospun fibers for tissue engineering applications. *Composites Part B: Engineering*, **2018**, 141, 70-75	10	68
186	Nano- and microstructural effects on thermal properties of poly (l-lactide)/multi-wall carbon nanotube composites. *Polymer*, **2012**, 53, 2412-2421	3.9	67
185	Increased functional properties and thermal stability of flexible cellulose nanocrystal/ZnO films. *Carbohydrate Polymers*, **2016**, 136, 250-8	10.3	66
184	Evidence for the absence of enzymatic reactions in the glassy state. A case study of xanthophyll cycle pigments in the desiccation-tolerant moss Syntrichia ruralis. *Journal of Experimental Botany*, **2013**, 64, 3033-43	7	66
183	Triple-shape memory effect of covalently crosslinked polyalkenamer based semicrystalline polymer blends. *Soft Matter*, **2012**, 8, 4928	3.6	65
182	Effect of ionic liquid anion and cation on the physico-chemical properties of poly(vinylidene fluoride)/ionic liquid blends. *European Polymer Journal*, **2015**, 71, 304-313	5.2	63
181	Phase-structure and mechanical properties of isothermally melt-and cold-crystallized poly (L-lactide). *Journal of the Mechanical Behavior of Biomedical Materials*, **2013**, 17, 242-51	4.1	59
180	Understanding nucleation of the electroactive β phase of poly(vinylidene fluoride) by nanostructures. *RSC Advances*, **2016**, 6, 113007-113015	3.7	57
179	Chiroptical, morphological and conducting properties of chiral nematic mesoporous cellulose/polypyrrole composite films. *Journal of Materials Chemistry A*, **2017**, 5, 19184-19194	13	57
178	Construction of antibacterial poly(ethylene terephthalate) films via layer by layer assembly of chitosan and hyaluronic acid. *Carbohydrate Polymers*, **2016**, 143, 35-43	10.3	56
177	Lignin-Based Hydrogels: Synthesis and Applications. *Polymers*, **2020**, 12,	4.5	55

176	Development of new remediation technologies for contaminated soils based on the application of zero-valent iron nanoparticles and bioremediation with compost. *Resource-efficient Technologies*, **2017**, 3, 166-176	2	45
175	Photocatalytic and antimicrobial multifunctional nanocomposite membranes for emerging pollutants water treatment applications. *Chemosphere*, **2020**, 250, 126299	8.4	45
174	Effect of reprocessing and accelerated ageing on thermal and mechanical polycarbonate properties. *Journal of Materials Processing Technology*, **2010**, 210, 727-733	5.3	45
173	Metal Nanoparticles Embedded in Cellulose Nanocrystal Based Films: Material Properties and Post-use Analysis. *Biomacromolecules*, **2018**, 19, 2618-2628	6.9	44
172	Biocompatible poly(L-lactide)/MWCNT nanocomposites: morphological characterization, electrical properties, and stem cell interaction. *Macromolecular Bioscience*, **2012**, 12, 870-81	5.5	44
171	Synthesis, characterization, and thermal properties of piezoelectric polyimides. *Journal of Polymer Science Part A*, **2009**, 47, 722-730	2.5	44
170	Magneto-active shape memory composites by incorporating ferromagnetic microparticles in a thermo-responsive polyalkenamer. *Smart Materials and Structures*, **2009**, 18, 075003	3.4	44
169	Light and gas barrier properties of PLLA/metallic nanoparticles composite films. *European Polymer Journal*, **2017**, 91, 10-20	5.2	43
168	Poly(l-lactide)/zno nanocomposites as efficient UV-shielding coatings for packaging applications. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	43
167	Unsaturated polyester resins cure: Kinetic, rheologic, and mechanical-dynamical analysis. I. Cure kinetics by DSC and TSR. *Journal of Applied Polymer Science*, **2001**, 79, 447-457	2.9	42
166	Relation between fiber orientation and mechanical properties of nano-engineered poly(vinylidene fluoride) electrospun composite fiber mats. *Composites Part B: Engineering*, **2018**, 139, 146-154	10	42
165	Development of poly(vinylidene fluoride)/ionic liquid electrospun fibers for tissue engineering applications. *Journal of Materials Science*, **2016**, 51, 4442-4450	4.3	40
164	Relevance study of bare and coated zero valent iron nanoparticles for lindane degradation from its by-product monitorization. *Chemosphere*, **2013**, 93, 1324-32	8.4	40
163	Effects of Graphene Oxide and Chemically-Reduced Graphene Oxide on the Dynamic Mechanical Properties of Epoxy Amine Composites. *Polymers*, **2017**, 9,	4.5	40
162	Effect of Reprocessing and Accelerated Weathering on ABS Properties. *Journal of Polymers and the Environment*, **2010**, 18, 71-78	4.5	40
161	On the Relevance of the Polar Phase of Poly(vinylidene fluoride) for High Performance Lithium-Ion Battery Separators. *Journal of Physical Chemistry C*, **2017**, 121, 26216-26225	3.8	38
160	Improved response of ionic liquid-based bending actuators by tailored interaction with the polar fluorinated polymer matrix. *Electrochimica Acta*, **2019**, 296, 598-607	6.7	38
159	Thermal, structural and degradation properties of an aromatic–aliphatic polyester built through ring-opening polymerisation. *Polymer Chemistry*, **2017**, 8, 3530-3538	4.9	37

158	A Robust Open Framework Formed by Decavanadate Clusters and Copper(II) Complexes of Macrocyclic Polyamines: Permanent Microporosity and Catalytic Oxidation of Cycloalkanes. *Inorganic Chemistry*, **2016**, 55, 4970-9	5.1	37
157	Zero-Valent Iron Nanoparticles for Soil and Groundwater Remediation. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	36
156	Chiroptical luminescent nanostructured cellulose films. *Materials Chemistry Frontiers*, **2017**, 1, 979-987	7.8	35
155	Thermal stability increase in metallic nanoparticles-loaded cellulose nanocrystal nanocomposites. *Carbohydrate Polymers*, **2017**, 171, 193-201	10.3	35
154	Cu-coated cellulose nanopaper for green and low-cost electronics. *Cellulose*, **2016**, 23, 1997-2010	5.5	35
153	Antibacterial hyaluronic acid/chitosan multilayers onto smooth and micropatterned titanium surfaces. *Carbohydrate Polymers*, **2019**, 207, 824-833	10.3	34
152	Chitosan nanogels as nanocarriers of polyoxometalates for breast cancer therapies. *Carbohydrate Polymers*, **2019**, 213, 159-167	10.3	33
151	Antibacterial multilayer of chitosan and (2-carboxyethyl)- □cyclodextrin onto polylactic acid (PLLA). *Food Hydrocolloids*, **2019**, 88, 228-236	10.6	32
150	Effect of the blend ratio on the shape memory and self-healing behaviour of ionomer-polycyclooctene crosslinked polymer blends. *European Polymer Journal*, **2018**, 98, 154-161	5.2	31
149	Hydrogel-based magnetoelectric microenvironments for tissue stimulation. *Colloids and Surfaces B: Biointerfaces*, **2019**, 181, 1041-1047	6	30
148	TiO-Doped Electrospun Nanofibrous Membrane for Photocatalytic Water Treatment. *Polymers*, **2019**, 11,	4.5	30
147	Methylene diphenyl diisocyanate (MDI) and toluene diisocyanate (TDI) based polyurethanes: thermal, shape-memory and mechanical behavior. *RSC Advances*, **2016**, 6, 69094-69102	3.7	30
146	Magnetic cellulose nanocrystal nanocomposites for the development of green functional materials. *Carbohydrate Polymers*, **2017**, 175, 425-432	10.3	29
145	Determining the Deacetylation Degree of Chitosan: Opportunities To Learn Instrumental Techniques. *Journal of Chemical Education*, **2018**, 95, 1022-1028	2.4	27
144	Physical aging and mechanical performance of poly(l-lactide)/ZnO nanocomposites. *Journal of Applied Polymer Science*, **2016**, 133,	2.9	27
143	Self-healable hyaluronic acid/chitosan polyelectrolyte complex hydrogels and multilayers. *European Polymer Journal*, **2019**, 120, 109268	5.2	26
142	Antibacterial Coatings for Improving the Performance of Biomaterials. *Coatings*, **2020**, 10, 139	2.9	26
141	Unsaturated polyester resins cure: Kinetic, rheologic, and mechanical dynamical analysis. II. The glass transition in the mechanical dynamical spectrum of polyester networks. *Journal of Polymer Science, Part B: Polymer Physics*, **2001**, 39, 146-152	2.6	26

140	Effect of coating on the environmental applications of zero valent iron nanoparticles: the lindane case. *Science of the Total Environment*, **2016**, 565, 795-803	10.2	26
139	Silk Fibroin Bending Actuators as an Approach Toward Natural Polymer Based Active Materials. *ACS Applied Materials & Interfaces*, **2019**, 11, 30197-30206	9.5	25
138	Synthesis of poly(cyclooctene) by ring-opening metathesis polymerization: Characterization and shape memory properties. *Journal of Applied Polymer Science*, **2010**, 115, 2440-2447	2.9	25
137	Analysis of the crosslinking process of a phenolic resin by thermal scanning rheometry. *Journal of Applied Polymer Science*, **2002**, 83, 57-65	2.9	25
136	Membranes based on polymer miscibility for selective transport and separation of metallic ions. *Journal of Hazardous Materials*, **2017**, 336, 188-194	12.8	24
135	Study of the chain microstructure effects on the resulting thermal properties of poly(L-lactide)/poly(N-isopropylacrylamide) biomedical materials. *Materials Science and Engineering C*, **2015**, 50, 97-106	8.3	24
134	Analysis of the crosslinking process of epoxy□phenolic mixtures by thermal scanning rheometry. *Journal of Applied Polymer Science*, **2005**, 98, 818-824	2.9	24
133	Tailoring silk fibroin separator membranes pore size for improving performance of lithium ion batteries. *Journal of Membrane Science*, **2020**, 598, 117678	9.6	24
132	Polycarbazole and Its Derivatives: Synthesis and Applications. A Review of the Last 10 Years. *Polymers*, **2020**, 12,	4.5	24
131	Novel shape-memory polyurethane fibers for textile applications. *Textile Reseach Journal*, **2019**, 89, 1027-1037	1.7	24
130	Influence of the soft segment nature on the thermomechanical behavior of shape memory polyurethanes. *Polymer Engineering and Science*, **2018**, 58, 238-244	2.3	23
129	Towards the development of eco-friendly disposable polymers: ZnO-initiated thermal and hydrolytic degradation in poly(L-lactide)/ZnO nanocomposites. *RSC Advances*, **2016**, 6, 15660-15669	3.7	23
128	pH responsive surfaces with nanoscale topography. *Journal of Polymer Science Part A*, **2010**, 48, 2982-2990	2.5	23
127	Characterization and Optimization of the Alkaline Hydrolysis of Polyacrylonitrile Membranes. *Polymers*, **2019**, 11,	4.5	22
126	Branched and ionic □Cyclodextrins multilayer assembling onto polyacrylonitrile membranes for removal and controlled release of triclosan. *Carbohydrate Polymers*, **2017**, 156, 143-151	10.3	22
125	Synthesis of gold-coated iron oxide nanoparticles. *Journal of Non-Crystalline Solids*, **2010**, 356, 1233-1235	3.9	22
124	New elastomer□erfenol-D magnetostrictive composites. *Sensors and Actuators A: Physical*, **2009**, 149, 251-254	3.9	22
123	Development of multiactive antibacterial multilayers of hyaluronic acid and chitosan onto poly(ethylene terephthalate). *European Polymer Journal*, **2019**, 112, 31-37	5.2	21

122	Preparation and characterization of soluble branched ionic Ecyclodextrins and their inclusion complexes with triclosan. *Carbohydrate Polymers*, **2016**, 142, 149-57	10.3	20
121	Pesticides microencapsulation. A safe and sustainable industrial process. *Journal of Chemical Technology and Biotechnology*, **2014**, 89, 1077-1085	3.5	20
120	EGlycerol phosphate/genipin chitosan hydrogels: A comparative study of their properties and diclofenac delivery. *Carbohydrate Polymers*, **2020**, 248, 116811	10.3	20
119	PLLA/ZnO nanocomposites: Dynamic surfaces to harness cell differentiation. *Colloids and Surfaces B: Biointerfaces*, **2016**, 144, 152-160	6	20
118	Optimized silk fibroin piezoresistive nanocomposites for pressure sensing applications based on natural polymers. *Nanoscale Advances*, **2019**, 1, 2284-2292	5.1	19
117	U-Shaped and Surface Functionalized Polymer Optical Fiber Probe for Glucose Detection. *Sensors*, **2017**, 18,	3.8	19
116	Polymeric Shape-Memory Micro-Patterned Surface for Switching Wettability with Temperature. *Polymers*, **2015**, 7, 1674-1688	4.5	19
115	High magnetostriction polymer-bonded Terfenol-D composites. *Sensors and Actuators A: Physical*, **2008**, 142, 538-541	3.9	19
114	Three-dimensional orientation of poly(L-lactide) crystals under uniaxial drawing. *RSC Advances*, **2016**, 6, 11943-11951	3.7	18
113	Shape memory effect for recovering surface damages on polymer substrates. *Journal of Polymer Research*, **2014**, 21, 1	2.7	18
112	Shape memory composites based on glass-fibre-reinforced poly(ethylene)-like polymers. *Smart Materials and Structures*, **2012**, 21, 035004	3.4	18
111	Impact of ZnO nanoparticle morphology on relaxation and transport properties of PLA nanocomposites. *Polymer Testing*, **2019**, 75, 175-184	4.5	18
110	On the use of surfactants for improving nanofiller dispersion and piezoresistive response in stretchable polymer composites. *Journal of Materials Chemistry C*, **2018**, 6, 10580-10588	7.1	18
109	Silk fibroin magnetoactive nanocomposite films and membranes for dynamic bone tissue engineering strategies. *Materialia*, **2020**, 12, 100709	3.2	17
108	High-temperature polymer based magnetoelectric nanocomposites. *European Polymer Journal*, **2015**, 64, 224-228	5.2	17
107	Photophysical characterization of new 3-amino and 3-acetamido BODIPY dyes with solvent sensitive properties. *Journal of Fluorescence*, **2008**, 18, 899-907	2.4	16
106	Synthesis and Characterization of Covalently Crosslinked pH-Responsive Hyaluronic Acid Nanogels: Effect of Synthesis Parameters. *Polymers*, **2019**, 11,	4.5	15
105	Plasma poly(acrylic acid) compatibilized hydroxyapatite-polylactide biocomposites for their use as body-absorbable osteosynthesis devices. *Composites Science and Technology*, **2018**, 161, 66-73	8.6	15

104	Tailored Biodegradable and Electroactive Poly(Hydroxybutyrate-Co-Hydroxyvalerate) Based Morphologies for Tissue Engineering Applications. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	15
103	Formulation of Carbopol/Poly(2-ethyl-2-oxazoline)s Mucoadhesive Tablets for Buccal Delivery of Hydrocortisone. *Polymers*, **2018**, 10,	4.5	15
102	Physical Aging in Poly(L-lactide) and its Multi-Wall Carbon Nanotube Nanocomposites. *Macromolecular Symposia*, **2012**, 321-322, 118-123	0.8	15
101	Effect of cyano dipolar groups on the performance of lithium-ion battery electrospun polyimide gel electrolyte membranes. *Journal of Electroanalytical Chemistry*, **2016**, 778, 57-65	4.1	15
100	Evaluation of postcuring process on the thermal and mechanical properties of the Clear02 resin used in stereolithography. *Polymer Testing*, **2018**, 72, 115-121	4.5	15
99	Stimuli responsive UV cured polyurethane acrylated/carbon nanotube composites for piezoresistive sensing. *European Polymer Journal*, **2019**, 120, 109226	5.2	14
98	Study of the effect of gamma irradiation on a commercial polycyclooctene I. Thermal and mechanical properties. *Radiation Physics and Chemistry*, **2014**, 102, 108-116	2.5	14
97	Thermal properties and fire behaviour of materials produced from curing mixed epoxy and phenolic resins. *Fire and Materials*, **2008**, 32, 281-292	1.8	14
96	Polysaccharide-Based In Situ Self-Healing Hydrogels for Tissue Engineering Applications. *Polymers*, **2020**, 12,	4.5	14
95	Grafting of Cellulose Nanocrystals **2016**, 61-113		14
94	Tuneable hydrolytic degradation of poly(l-lactide) scaffolds triggered by ZnO nanoparticles. *Materials Science and Engineering C*, **2017**, 75, 714-720	8.3	13
93	Improving the Processability of Conductive Polymers: The Case of Polyaniline. *Advances in Polymer Technology*, **2013**, 32, E180-E188	1.9	13
92	Ring-Opening Metathesis Polymerization Kinetics of Cyclooctene with Second Generation Grubbs Catalyst. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2010**, 47, 1130-1134	2.2	13
91	Temperature Response of Magnetostrictive/Piezoelectric Polymer Magnetoelectric Laminates. *Key Engineering Materials*, **2011**, 495, 351-354	0.4	13
90	Free-volume effects on the thermomechanical performance of epoxy SiO2 nanocomposites. *Journal of Applied Polymer Science*, **2017**, 134, 45216	2.9	12
89	Sequential single-crystal-to-single-crystal transformations promoted by gradual thermal dehydration in a porous metavanadate hybrid. *CrystEngComm*, **2015**, 17, 8915-8925	3.3	12
88	Poly(L-lactide)/branched cyclodextrin blends: Thermal, morphological and mechanical properties. *Carbohydrate Polymers*, **2016**, 144, 25-32	10.3	12
87	Dielectric relaxation dynamics of high-temperature piezoelectric polyimide copolymers. *Applied Physics A: Materials Science and Processing*, **2015**, 120, 731-743	2.6	12

86	Development and characterization of semi-crystalline polyalkenamer based shape memory polymers. *Smart Materials and Structures*, **2011**, 20, 035003	3.4	12
85	Effect of Different Types of Electrospun Polyamide 6 Nanofibres on the Mechanical Properties of Carbon Fibre/Epoxy Composites. *Polymers*, **2018**, 10,	4.5	12
84	UV curable nanocomposites with tailored dielectric response. *Polymer*, **2020**, 196, 122498	3.9	11
83	Polysaccharide polyelectrolyte multilayer coating on poly(ethylene terephthalate). *Polymer International*, **2016**, 65, 915-920	3.3	11
82	Thermal behaviour of H-bonded interpolymer complexes based on polymers with acrylamide or lactame groups and poly(acrylic acid): Influence of N-alkyl and -methyl substitutions. *Polymer Degradation and Stability*, **2014**, 109, 147-153	4.7	11
81	Improving the Magnetoelectric Response of Laminates Containing High Temperature Piezopolymers. *IEEE Transactions on Magnetics*, **2013**, 49, 42-45	2	11
80	Catalytic performance of the high and low temperature polymorphs of (C6N2H16)0.5[(VO)(HAsO4)F]: structural, thermal, spectroscopic and magnetic studies. *Dalton Transactions*, **2010**, 39, 834-46	4.3	11
79	Biomaterials obtained by photopolymerization: from UV to two photon. *Emergent Materials*, **2020**, 3, 453-468	3.5	11
78	Antibacterial chitosan electrostatic/covalent coating onto biodegradable poly (-lactic acid). *Food Hydrocolloids*, **2020**, 105, 105835	10.6	10
77	Synthesis and characterization of novel piezoelectric nitrile copolyimide films for high temperature sensor applications. *Smart Materials and Structures*, **2014**, 23, 105015	3.4	10
76	Influence of -methyl substitutions on interpolymer complexes formation between poly(meth)acrylic acids and poly(N-isopropyl(meth)acrylamide)s. *Colloid and Polymer Science*, **2015**, 293, 1447-1455	2.4	10
75	Nonylphenol polyethoxylate coated body-center-cubic iron nanocrystals for ferrofluids with technical applications. *Journal of Applied Physics*, **2013**, 113, 17B505	2.5	10
74	Influence of fillers on the properties of a phenolic resin cured in acidic medium. *Journal of Applied Polymer Science*, **2008**, 108, 387-392	2.9	10
73	In situ measurements of free volume during recovery process of a shape memory polymer. *Polymer*, **2017**, 109, 66-70	3.9	9
72	Thermally-Triggered Crystal Dynamics and Permanent Porosity in the First Heptatungstate-Metalorganic Three-Dimensional Hybrid Framework. *Chemistry - A European Journal*, **2017**, 23, 14962-14974	4.8	9
71	Connecting free volume with shape memory properties in noncytotoxic gamma-irradiated polycyclooctene. *Journal of Polymer Science, Part B: Polymer Physics*, **2015**, 53, 1080-1088	2.6	9
70	ROMP of Functionalized Cyclooctene and Norbornene Derivatives and their Copolymerization with Cyclooctene. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2011**, 48, 211-218	2.2	9
69	Study of Polymer-Polymer Complexes of Poly(N-Isopropylacrylamide) with Hydroxyl-Containing Polymers. *Journal of Macromolecular Science - Physics*, **2004**, 43, 437-446	1.4	9

68	PCO-LLDPE thermoresponsive shape memory blends. Towards a new generation of breathable and waterproof smart membranes. *European Polymer Journal*, **2019**, 119, 469-476	5.2	8
67	Electric modulus and polarization studies on piezoelectric polyimides. *Journal of Applied Polymer Science*, **2012**, 125, 67-76	2.9	8
66	Dynamic mechanical properties of epoxy-phenolic mixtures. *Journal of Polymer Science, Part B: Polymer Physics*, **2005**, 43, 1548-1555	2.6	8
65	Novel Antibacterial and Toughened Carbon-Fibre/Epoxy Composites by the Incorporation of TiO Nanoparticles Modified Electrospun Nanofibre Veils. *Polymers*, **2019**, 11,	4.5	7
64	New ways to improve the damping properties in high-performance thermoplastic vulcanizates. *Polymer International*, **2020**, 69, 467-475	3.3	7
63	Thermal, optical and structural properties of blocks and blends of PLA and P2HEB. *Green Materials*, **2018**, 6, 85-96	3.2	7
62	Improving the Performance of High Temperature Piezopolymers for Magnetoelectric Applications. *Key Engineering Materials*, **2013**, 543, 439-442	0.4	7
61	Optically transparent silk fibroin/silver nanowire composites for piezoresistive sensing and object recognitions. *Journal of Materials Chemistry C*, **2020**, 8, 13053-13062	7.1	7
60	Advances in image processing for single-particle analysis by electron cryomicroscopy and challenges ahead. *Current Opinion in Structural Biology*, **2018**, 52, 127-145	8.1	7
59	Active release coating of multilayer assembled branched and ionic β-cyclodextrins onto poly(ethylene terephthalate). *Carbohydrate Polymers*, **2017**, 174, 65-71	10.3	6
58	Enhanced charge-transfer emission in polyimides by cyano-groups doping. *Journal of Physical Chemistry B*, **2015**, 119, 5685-92	3.4	6
57	Thickness effect on the generation of temperature and curing degree gradients in epoxy-amine thermoset systems. *Journal of Thermal Analysis and Calorimetry*, **2018**, 132, 1867-1881	4.1	6
56	Impact Damping in NiMnGa/Polymer Composites. *Materials Transactions*, **2014**, 55, 629-632	1.3	6
55	Temperature Response of Magnetostrictive/Piezoelectric Polymer Magnetoelectric Laminates. *Materials Research Society Symposia Proceedings*, **2012**, 1398, 15		6
54	Hybrid Organic-Inorganic Membranes for Photocatalytic Water Remediation. *Catalysts*, **2022**, 12, 180	4	6
53	Synthesis and characterization of near-infrared fluorescent and magnetic iron zero-valent nanoparticles. *Journal of Photochemistry and Photobiology A: Chemistry*, **2016**, 315, 1-7	4.7	5
52	Thermostructural Behavior in a Series of Lanthanide-Containing Polyoxotungstate Hybrids with Copper(II) Complexes of the Tetraazamacrocycle Cyclam: A Single-Crystal-to-Single-Crystal Transformation Study. *Inorganic Chemistry*, **2019**, 58, 4365-4375	5.1	5
51	Reversible functionalization of nanostructured polymer surfaces via stimuli-responsive interpolymer complexes. *European Polymer Journal*, **2013**, 49, 130-138	5.2	5

50	Radio Frequency Magnetoelectric Effect Measured at High Temperature. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	5
49	Advantages of biocides: cyclodextrin inclusion complexes against active components for pesticide industry. *International Journal of Environmental Analytical Chemistry*, **2012**, 92, 963-978	1.8	5
48	Frozen Polarization of Piezoelectric Polyimides. *Ferroelectrics*, **2009**, 389, 114-121	0.6	5
47	Dielectric Properties of Piezoelectric Polyimides. *Ferroelectrics*, **2008**, 370, 3-10	0.6	5
46	Determination of the rheological behavior of epoxy–amine thermosets by dynamic mechanical analysis: Isothermal methods versus nonisothermal methods. *Journal of Polymer Science, Part B: Polymer Physics*, **2003**, 41, 1965-1977	2.6	5
45	Thermal properties of copolymers of N-vinylcarbazole with acrylic and methacrylic monomers. *Journal of Macromolecular Science - Physics*, **2002**, 41, 241-253	1.4	5
44	Resonant Response of Magnetostrictive/New Piezoelectric Polymer Magnetoelectric Laminate. *Sensor Letters*, **2013**, 11, 134-137	0.9	5
43	Solvent and relative humidity effect on highly ordered polystyrene honeycomb patterns analyzed by Voronoi tesselation. *Journal of Applied Polymer Science*, **2016**, 133,	2.9	5
42	Green alternative cosolvents to -methyl-2-pyrrolidone in water polyurethane dispersions.. *RSC Advances*, **2021**, 11, 19070-19075	3.7	5
41	Optimized Magnetodielectric Coupling on High-Temperature Polymer-Based Nanocomposites. *Journal of Physical Chemistry C*, **2018**, 122, 1821-1827	3.8	5
40	Nanopatterned polystyrene-b-poly(acrylic acid) surfaces to modulate cell-material interaction. *Materials Science and Engineering C*, **2017**, 75, 229-236	8.3	4
39	Toward superior applications of thermoplastic elastomer blends: double Tg increase and improved ductility. *Polymer International*, **2019**, 68, 1130-1139	3.3	4
38	Hydrolysis of poly(l-lactide)/ZnO nanocomposites with antimicrobial activity. *Journal of Applied Polymer Science*, **2019**, 136, 47786	2.9	4
37	Immobilization of Polyoxometalates on Tailored Polymeric Surfaces. *Nanomaterials*, **2018**, 8,	5.4	4
36	Air-stable Fe@Au nanoparticles synthesized by the microemulsion methods. *Journal of the Korean Physical Society*, **2013**, 62, 1376-1381	0.6	4
35	New Polyurethane-based magnetostrictive composites: Dynamical mechanical properties. *Polymer Engineering and Science*, **2013**, 53, 744-751	2.3	4
34	Reutilization of thermostable polyester wastes by means of agglomeration with phenolic resins. *Waste Management*, **2010**, 30, 2305-11	8.6	4
33	3D printable self-healing hyaluronic acid/chitosan polycomplex hydrogels with drug release capability. *International Journal of Biological Macromolecules*, **2021**, 188, 820-832	7.9	4

32	Polyalkene-based shape-memory polymers **2007**,		3
31	Wound healing and antibacterial chitosan-genipin hydrogels with controlled drug delivery for synergistic anti-inflammatory activity.. *International Journal of Biological Macromolecules*, **2022**, 203, 679-679	7.9	3
30	pH-Induced 3D Printable Chitosan Hydrogels for Soft Actuation.. *Polymers*, **2022**, 14,	4.5	3
29	Effect of metal-oxide nanoparticle presence and alginate cross-linking on cellulose nanocrystal-based aerogels. *Journal of Applied Polymer Science*, **2021**, 138, 50639	2.9	3
28	Biocompatible hyaluronic acid-divinyl sulfone injectable hydrogels for sustained drug release with enhanced antibacterial properties against Staphylococcus aureus. *Materials Science and Engineering C*, **2021**, 125, 112102	8.3	3
27	Antibacterial catechol-based hyaluronic acid, chitosan and poly (N-vinyl pyrrolidone) coatings onto Ti6Al4V surfaces for application as biomedical implant. *International Journal of Biological Macromolecules*, **2021**, 183, 1222-1235	7.9	3
26	Kinetic, thermal, structural and degradation studies on the effect of meta-substituted aromatic-aliphatic polyesters built through ring-opening polymerisation. *Polymer Degradation and Stability*, **2019**, 169, 108984	4.7	2
25	Influence of N-alkyl and substitutions on the thermal behaviour of H-bonded interpolymer complexes based on polymers with acrylamide or lactame groups and poly(4-vinylphenol). *Thermochimica Acta*, **2015**, 614, 191-198	2.9	2
24	Toward Advanced Functional Systems: Honeycomb-Like Polymeric Surfaces Incorporating Polyoxovanadates with Surface-Appended Copper-Cyclam Complexes. *Molecules*, **2019**, 24,	4.8	2
23	Energy Harvesting **2017**, 225-253		2
22	Studying the Thermal Degradation of Different Polyacenaphthylenes via Thermogravimetric Analysis Combined With Fourier Transform Infrared Spectroscopy (TGA-FTIR). *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2014**, 51, 718-728	2.2	2
21	Thermal Degradation of Copolymers of N-Vinylcarbazole with Acrylic and Methacrylic Monomers. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2006**, 43, 1029-1041	2.2	2
20	Reusable Nanocomposite Membranes for Highly Efficient Arsenite and Arsenate Dual Removal from Water. *Advanced Materials Interfaces*,2101419	4.6	2
19	Enhanced mar/scratch resistance in automotive clear coatings by modifying crosslinked polyurethane network with branched flexible oligomers. *Progress in Organic Coatings*, **2022**, 163, 106668	4.8	2
18	Poly(l-lactide)-Based Anti-Inflammatory Responsive Surfaces for Surgical Implants. *Polymers*, **2020**, 13,	4.5	2
17	Poly(lactic-co-glycolide) based biodegradable electrically and magnetically active microenvironments for tissue regeneration applications. *European Polymer Journal*, **2022**, 111197	5.2	2
16	The Effect of the Isomeric Chlorine Substitutions on the Honeycomb-Patterned Films of Poly(x-chlorostyrene)s/Polystyrene Blends and Copolymers via Static Breath Figure Technique. *Materials*, **2019**, 12,	3.5	1
15	Experimental investigation of the nonlinear quasi-static and dynamic mechanical behaviour of novel PA6/XHNBR thermoplastic vulcanizates: Linking mechanical nonlinearities to microstructural features. *Materials Today Communications*, **2020**, 25, 101395	2.5	1

14	Synthesis and Characterization of New Thiophene-Derived Polymers. *Advances in Polymer Technology*, **2014**, 33, n/a-n/a	1.9	1
13	Poly(styrene-co-vinylbenzylchloride-co-divinylbenzene) coated iron oxide: Synthesis and effects on size and morphology. *Journal of Applied Physics*, **2009**, 105, 07B318	2.5	1
12	Tuning magnetic response and ionic conductivity of electrospun hybrid membranes for tissue regeneration strategies. *Polymers for Advanced Technologies*,	3.2	1
11	Structural Characterization of Mono and Dihydroxylated Umbelliferone Derivatives. *Molecules*, **2020**, 25,	4.8	1
10	Tough Hydrogels Based on Maleic Anhydride, Bulk Properties Study and Microfiber Formation by Electrospinning. *Polymers*, **2021**, 13,	4.5	1
9	Biodegradable Shape-Memory Polymers. *Advanced Structured Materials*, **2020**, 219-236	0.6	1
8	Tailoring new bisphenol a ethoxylated shape memory polyurethanes. *Journal of Applied Polymer Science*, **2021**, 138, 49660	2.9	1
7	Development of Kraft Lignin Chemically Modified as a Novel Crosslinking Agent for the Synthesis of Active Hydrogels. *Applied Sciences (Switzerland)*, **2021**, 11, 4012	2.6	0
6	Study of the capacity of poly(N-vinylcarbazole) derivatives to form honeycomb-like patterns. *Journal of Applied Polymer Science*, **2021**, 138, 50975	2.9	0
5	Controlling tackiness of shape memory polyurethanes for textile applications. *Journal of Polymer Research*, **2021**, 28, 1	2.7	0
4	Ionic liquid modified electroactive polymer-based microenvironments for tissue engineering. *Polymer*, **2022**, 246, 124731	3.9	0
3	Interference lithography with functional block copolymer blends: Hierarchical structuration and anisotropic wetting. *European Polymer Journal*, **2017**, 90, 25-36	5.2	
2	Nanobioremediation for soil remediation: An introduction **2022**, 479-500		
1	THERMO-ACTIVE SHAPE MEMORY MULTI-LAYER PAPERBOARD PACKAGING. *Dyna (Spain)*, **2019**, 94, 384-389	0.4	