JosÃ© L Vilas

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2484997/publications.pdf

Version: 2024-02-01

204	5,934	57758	114465
papers	citations	44 h-index	63 g-index

205	205	205	7379
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stateâ€ofâ€theâ€Art and Future Challenges of UV Curable Polymerâ€Based Smart Materials for Printing Technologies. Advanced Materials Technologies, 2019, 4, 1800618.	5.8	203
2	MonoRes: Automatic and Accurate Estimation of Local Resolution for Electron Microscopy Maps. Structure, 2018, 26, 337-344.e4.	3.3	179
3	PLLA-grafted cellulose nanocrystals: Role of the CNC content and grafting on the PLA bionanocomposite film properties. Carbohydrate Polymers, 2016, 142, 105-113.	10.2	167
4	Crystallization, structural relaxation and thermal degradation in Poly(l-lactide)/cellulose nanocrystal renewable nanocomposites. Carbohydrate Polymers, 2015, 123, 256-265.	10.2	139
5	Effects of phenolic resin pyrolysis conditions on carbon membrane performance for gas separation. Journal of Membrane Science, 2004, 228, 45-54.	8.2	123
6	Lignin-Based Hydrogels: Synthesis and Applications. Polymers, 2020, 12, 81.	4.5	118
7	Zero-Valent Iron Nanoparticles for Soil and Groundwater Remediation. International Journal of Environmental Research and Public Health, 2020, 17, 5817.	2.6	97
8	Photocatalytic and antimicrobial multifunctional nanocomposite membranes for emerging pollutants water treatment applications. Chemosphere, 2020, 250, 126299.	8.2	95
9	Increased functional properties and thermal stability of flexible cellulose nanocrystal/ZnO films. Carbohydrate Polymers, 2016, 136, 250-258.	10.2	92
10	Development of magnetoelectric CoFe₂O₄ /poly(vinylidene fluoride) microspheres. RSC Advances, 2015, 5, 35852-35857.	3.6	88
11	Silk fibroin-magnetic hybrid composite electrospun fibers for tissue engineering applications. Composites Part B: Engineering, 2018, 141, 70-75.	12.0	88
12	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, 3033-3043.	4.8	86
13	Phase-structure and mechanical properties of isothermally melt-and cold-crystallized poly (L-lactide). Journal of the Mechanical Behavior of Biomedical Materials, 2013, 17, 242-251.	3.1	79
14	Nano- and microstructural effects on thermal properties of poly (l-lactide)/multi-wall carbon nanotube composites. Polymer, 2012, 53, 2412-2421.	3.8	72
15	Effect of ionic liquid anion and cation on the physico-chemical properties of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	5.4	72
16	Understanding nucleation of the electroactive Î²-phase of poly(vinylidene fluoride) by nanostructures. RSC Advances, 2016, 6, 113007-113015.	3.6	72
17	Construction of antibacterial poly(ethylene terephthalate) films via layer by layer assembly of chitosan and hyaluronic acid. Carbohydrate Polymers, 2016, 143, 35-43.	10.2	72
18	Chiroptical, morphological and conducting properties of chiral nematic mesoporous cellulose/polypyrrole composite films. Journal of Materials Chemistry A, 2017, 5, 19184-19194.	10.3	72

#	Article	IF	Citations
19	Triple-shape memory effect of covalently crosslinked polyalkenamer based semicrystalline polymer blends. Soft Matter, 2012, 8, 4928.	2.7	71
20	Antibacterial Coatings for Improving the Performance of Biomaterials. Coatings, 2020, 10, 139.	2.6	71
21	Thermal, structural and degradation properties of an aromaticâ€“aliphatic polyester built through ring-opening polymerisation. Polymer Chemistry, 2017, 8, 3530-3538.	3.9	70
22	Polycarbazole and Its Derivatives: Synthesis and Applications. A Review of the Last 10 Years. Polymers, 2020, 12, 2227.	4.5	68
23	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.	0.1	67
24	Effect of reprocessing and accelerated ageing on thermal and mechanical polycarbonate properties. Journal of Materials Processing Technology, 2010, 210, 727-733.	6.3	66
25	Relation between fiber orientation and mechanical properties of nano-engineered poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock	12.0	63
26	Effects of Graphene Oxide and Chemically-Reduced Graphene Oxide on the Dynamic Mechanical Properties of Epoxy Amine Composites. Polymers, 2017, 9, 449.	4.5	62
27	Metal Nanoparticles Embedded in Cellulose Nanocrystal Based Films: Material Properties and Post-use Analysis. Biomacromolecules, 2018, 19, 2618-2628.	5.4	62
28	Poly(<scp>l</scp>â€lactide)/zno nanocomposites as efficient UVâ€shielding coatings for packaging applications. Journal of Applied Polymer Science, 2016, 133, .	2.6	57
29	Antibacterial hyaluronic acid/chitosan multilayers onto smooth and micropatterned titanium surfaces. Carbohydrate Polymers, 2019, 207, 824-833.	10.2	56
30	Self-healable hyaluronic acid/chitosan polyelectrolyte complex hydrogels and multilayers. European Polymer Journal, 2019, 120, 109268.	5.4	55
31	Determining the Deacetylation Degree of Chitosan: Opportunities To Learn Instrumental Techniques. Journal of Chemical Education, 2018, 95, 1022-1028.	2.3	54
32	On the Relevance of the Polar Î²-Phase of Poly(vinylidene fluoride) for High Performance Lithium-Ion Battery Separators. Journal of Physical Chemistry C, 2017, 121, 26216-26225.	3.1	53
33	Chiroptical luminescent nanostructured cellulose films. Materials Chemistry Frontiers, 2017, 1, 979-987.	5.9	51
34	Magneto-active shape memory composites by incorporating ferromagnetic microparticles in a thermo-responsive polyalkenamer. Smart Materials and Structures, 2009, 18, 075003.	3.5	50
35	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, 4970-4979.	4.0	50
36	Light and gas barrier properties of PLLA/metallic nanoparticles composite films. European Polymer Journal, 2017, 91, 10-20.	5.4	50

#	Article	IF	Citations
37	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.	2.6	49
38	Improved response of ionic liquid-based bending actuators by tailored interaction with the polar fluorinated polymer matrix. Electrochimica Acta, 2019, 296, 598-607.	5.2	49
39	Synthesis, characterization, and thermal properties of piezoelectric polyimides. Journal of Polymer Science Part A, 2009, 47, 722-730.	2.3	48
40	Effect of Reprocessing and Accelerated Weathering on ABS Properties. Journal of Polymers and the Environment, 2010, 18, 71-78.	5.0	48
41	Biocompatible Poly(<scp>L</scp>â€lactide)/MWCNT Nanocomposites: Morphological Characterization, Electrical Properties, and Stem Cell Interaction. Macromolecular Bioscience, 2012, 12, 870-881.	4.1	48
42	Development of poly(vinylidene fluoride)/ionic liquid electrospun fibers for tissue engineering applications. Journal of Materials Science, 2016, 51, 4442-4450.	3.7	48
43	Chitosan nanogels as nanocarriers of polyoxometalates for breast cancer therapies. Carbohydrate Polymers, 2019, 213, 159-167.	10.2	48
44	Relevance study of bare and coated zero valent iron nanoparticles for lindane degradation from its by-product monitorization. Chemosphere, 2013, 93, 1324-1332.	8.2	47
45	Magnetic cellulose nanocrystal nanocomposites for the development of green functional materials. Carbohydrate Polymers, 2017, 175, 425-432.	10.2	44
46	Hydrogel-based magnetoelectric microenvironments for tissue stimulation. Colloids and Surfaces B: Biointerfaces, 2019, 181, 1041-1047.	5.0	44
47	TiO2-Doped Electrospun Nanofibrous Membrane for Photocatalytic Water Treatment. Polymers, 2019, 11, 747.	4.5	44
48	Thermal stability increase in metallic nanoparticles-loaded cellulose nanocrystal nanocomposites. Carbohydrate Polymers, 2017, 171, 193-201.	10.2	43
49	Antibacterial multilayer of chitosan and (2-carboxyethyl)-Î²-cyclodextrin onto polylactic acid (PLLA). Food Hydrocolloids, 2019, 88, 228-236.	10.7	43
50	Cu-coated cellulose nanopaper for green and low-cost electronics. Cellulose, 2016, 23, 1997-2010.	4.9	41
51	Characterization and Optimization of the Alkaline Hydrolysis of Polyacrylonitrile Membranes. Polymers, 2019, 11, 1843.	4.5	39
52	Methylene diphenyl diisocyanate (MDI) and toluene diisocyanate (TDI) based polyurethanes: thermal, shape-memory and mechanical behavior. RSC Advances, 2016, 6, 69094-69102.	3.6	38
53	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.	5.4	38
54	3D printable self-healing hyaluronic acid/chitosan polycomplex hydrogels with drug release capability. International Journal of Biological Macromolecules, 2021, 188, 820-832.	7.5	38

#	Article	IF	Citations
55	Towards the development of eco-friendly disposable polymers: ZnO-initiated thermal and hydrolytic degradation in poly(<scp>l</scp>-lactide)/ZnO nanocomposites. RSC Advances, 2016, 6, 15660-15669.	3.6	37
56	Membranes based on polymer miscibility for selective transport and separation of metallic ions. Journal of Hazardous Materials, 2017, 336, 188-194.	12.4	36
57	Bioactive Coatings on Titanium: A Review on Hydroxylation, Self-Assembled Monolayers (SAMs) and Surface Modification Strategies. Polymers, 2022, 14, 165.	4.5	36
58	Novel shape-memory polyurethane fibers for textile applications. Textile Reseach Journal, 2019, 89, 1027-1037.	2.2	35
59	Î²-Glycerol phosphate/genipin chitosan hydrogels: A comparative study of their properties and diclofenac delivery. Carbohydrate Polymers, 2020, 248, 116811.	10.2	35
60	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.	5.5	34
61	Silk Fibroin Bending Actuators as an Approach Toward Natural Polymer Based Active Materials. ACS Applied Materials & Interfaces, 2019, 11, 30197-30206.	8.0	34
62	Polysaccharide-Based In Situ Self-Healing Hydrogels for Tissue Engineering Applications. Polymers, 2020, 12, 2261.	4.5	34
63	Effect of coating on the environmental applications of zero valent iron nanoparticles: the lindane case. Science of the Total Environment, 2016, 565, 795-803.	8.0	33
64	Influence of the soft segment nature on the thermomechanical behavior of shape memory polyurethanes. Polymer Engineering and Science, 2018, 58, 238-244.	3.1	33
65	Tailoring silk fibroin separator membranes pore size for improving performance of lithium ion batteries. Journal of Membrane Science, 2020, 598, 117678.	8.2	33
66	Evaluation of postcuring process on the thermal and mechanical properties of the Clear02â„¢ resin used in stereolithography. Polymer Testing, 2018, 72, 115-121.	4.8	32
67	Physical aging and mechanical performance of poly(<scp>l</scp>â€lactide)/ZnO nanocomposites. Journal of Applied Polymer Science, 2016, 133, .	2.6	31
68	U-Shaped and Surface Functionalized Polymer Optical Fiber Probe for Glucose Detection. Sensors, 2018, 18, 34.	3.8	31
69	New elastomerâ€“Terfenol-D magnetostrictive composites. Sensors and Actuators A: Physical, 2009, 149, 251-254.	4.1	29
70	Synthesis of poly(cyclooctene) by ringâ€opening metathesis polymerization: Characterization and shape memory properties. Journal of Applied Polymer Science, 2010, 115, 2440-2447.	2.6	29
71	Stimuli responsive UV cured polyurethane acrylated/carbon nanotube composites for piezoresistive sensing. European Polymer Journal, 2019, 120, 109226.	5.4	29
72	Optimized silk fibroin piezoresistive nanocomposites for pressure sensing applications based on natural polymers. Nanoscale Advances, 2019, 1, 2284-2292.	4.6	29

#	Article	IF	Citations
73	Synthesis and Characterization of Covalently Crosslinked pH-Responsive Hyaluronic Acid Nanogels: Effect of Synthesis Parameters. Polymers, 2019, 11, 742.	4.5	29
74	Analysis of the crosslinking process of a phenolic resin by thermal scanning rheometry. Journal of Applied Polymer Science, 2002, 83, 57-65.	2.6	28
75	Photophysical Characterization of New 3-Amino and 3-Acetamido BODIPY Dyes with Solvent Sensitive Properties. Journal of Fluorescence, 2008, 18, 899-907.	2.5	28
76	Pesticides microencapsulation. A safe and sustainable industrial process. Journal of Chemical Technology and Biotechnology, 2014, 89, 1077-1085.	3.2	28
77	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.	7.3	28
78	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.	2.1	27
79	Formulation of CarbopolÂ®/Poly(2-ethyl-2-oxazoline)s Mucoadhesive Tablets for Buccal Delivery of Hydrocortisone. Polymers, 2018, 10, 175.	4.5	27
80	Wound healing and antibacterial chitosan-genipin hydrogels with controlled drug delivery for synergistic anti-inflammatory activity. International Journal of Biological Macromolecules, 2022, 203, 679-694.	7.5	27
81	Analysis of the crosslinking process of epoxyâ€“phenolic mixtures by thermal scanning rheometry. Journal of Applied Polymer Science, 2005, 98, 818-824.	2.6	26
82	High magnetostriction polymer-bonded Terfenol-D composites. Sensors and Actuators A: Physical, 2008, 142, 538-541.	4.1	26
83	Grafting of Cellulose Nanocrystals. , 2016, , 61-113.		26
84	Development of multiactive antibacterial multilayers of hyaluronic acid and chitosan onto poly(ethylene terephthalate). European Polymer Journal, 2019, 112, 31-37.	5.4	26
85	pH responsive surfaces with nanoscale topography. Journal of Polymer Science Part A, 2010, 48, 2982-2990.	2.3	25
86	Synthesis of gold-coated iron oxide nanoparticles. Journal of Non-Crystalline Solids, 2010, 356, 1233-1235.	3.1	25
87	Polymeric Shape-Memory Micro-Patterned Surface for Switching Wettability with Temperature. Polymers, 2015, 7, 1674-1688.	4.5	24
88	Impact of ZnO nanoparticle morphology on relaxation and transport properties of PLA nanocomposites. Polymer Testing, 2019, 75, 175-184.	4.8	24
89	Silk fibroin magnetoactive nanocomposite films and membranes for dynamic bone tissue engineering strategies. Materialia, 2020, 12, 100709.	2.7	24
90	Branched and ionic Î²-Cyclodextrins multilayer assembling onto polyacrylonitrile membranes for removal and controlled release of triclosan. Carbohydrate Polymers, 2017, 156, 143-151.	10.2	23

#	Article	IF	Citations
91	Tailored Biodegradable and Electroactive Poly(Hydroxybutyrate-Co-Hydroxyvalerate) Based Morphologies for Tissue Engineering Applications. International Journal of Molecular Sciences, 2018, 19, 2149.	4.1	23
92	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.	7.5	23
93	PLLA/ZnO nanocomposites: Dynamic surfaces to harness cell differentiation. Colloids and Surfaces B: Biointerfaces, 2016, 144, 152-160.	5.0	22
94	High-temperature polymer based magnetoelectric nanocomposites. European Polymer Journal, 2015, 64, 224-228.	5.4	21
95	Three-dimensional orientation of poly(<scp>l</scp>-lactide) crystals under uniaxial drawing. RSC Advances, 2016, 6, 11943-11951.	3.6	21
96	Preparation and characterization of soluble branched ionic Î²-cyclodextrins and their inclusion complexes with triclosan. Carbohydrate Polymers, 2016, 142, 149-157.	10.2	21
97	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.	7.3	21
98	Photocrosslinkable and self-healable hydrogels of chitosan and hyaluronic acid. International Journal of Biological Macromolecules, 2022, 216, 291-302.	7.5	20
99	Shape memory composites based on glass-fibre-reinforced poly(ethylene)-like polymers. Smart Materials and Structures, 2012, 21, 035004.	3.5	19
100	Tuneable hydrolytic degradation of poly(l-lactide) scaffolds triggered by ZnO nanoparticles. Materials Science and Engineering C, 2017, 75, 714-720.	7.3	19
101	Shape memory effect for recovering surface damages on polymer substrates. Journal of Polymer Research, 2014, 21, 1.	2.4	18
102	Freeâ€volume effects on the thermomechanical performance of epoxyâ€“SiO₂ nanocomposites. Journal of Applied Polymer Science, 2017, 134, 45216.	2.6	18
103	Effect of Different Types of Electrospun Polyamide 6 Nanofibres on the Mechanical Properties of Carbon Fibre/Epoxy Composites. Polymers, 2018, 10, 1190.	4.5	18
104	Biomaterials obtained by photopolymerization: from UV to two photon. Emergent Materials, 2020, 3, 453-468.	5.7	18
105	pH-Induced 3D Printable Chitosan Hydrogels for Soft Actuation. Polymers, 2022, 14, 650.	4.5	18
106	Physical Aging in Poly(L-lactide) and its Multi-Wall Carbon Nanotube Nanocomposites. Macromolecular Symposia, 2012, 321-322, 118-123.	0.7	17
107	Study of the effect of gamma irradiation on a commercial polycyclooctene I. Thermal and mechanical properties. Radiation Physics and Chemistry, 2014, 102, 108-116.	2.8	17
108	Polysaccharide polyelectrolyte multilayer coating on poly(ethylene terephthalate). Polymer International, 2016, 65, 915-920.	3.1	17

#	Article	IF	Citations
109	Novel Antibacterial and Toughened Carbon-Fibre/Epoxy Composites by the Incorporation of TiO2 Nanoparticles Modified Electrospun Nanofibre Veils. Polymers, 2019, 11, 1524.	4.5	17
110	Antibacterial chitosan electrostatic/covalent coating onto biodegradable poly (-lactic acid). Food Hydrocolloids, 2020, 105, 105835.	10.7	17
111	UV curable nanocomposites with tailored dielectric response. Polymer, 2020, 196, 122498.	3.8	17
112	Improving the Processability of Conductive Polymers: The Case of Polyaniline. Advances in Polymer Technology, 2013, 32, .	1.7	16
113	Dielectric relaxation dynamics of high-temperature piezoelectric polyimide copolymers. Applied Physics A: Materials Science and Processing, 2015, 120, 731-743.	2.3	16
114	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.	3.8	16
115	Plasma poly(acrylic acid) compatibilized hydroxyapatite-polylactide biocomposites for their use as body-absorbable osteosynthesis devices. Composites Science and Technology, 2018, 161, 66-73.	7.8	16
116	Influence of Î±-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.	2.1	15
117	Advances in image processing for single-particle analysis by electron cryomicroscopy and challenges ahead. Current Opinion in Structural Biology, 2018, 52, 127-145.	5.7	15
118	New ways to improve the damping properties in highâ€performance thermoplastic vulcanizates. Polymer International, 2020, 69, 467-475.	3.1	15
119	Green alternative cosolvents to N-methyl-2-pyrrolidone in water polyurethane dispersions. RSC Advances, 2021, 11, 19070-19075.	3.6	15
120	Hybrid Organicâ€“Inorganic Membranes for Photocatalytic Water Remediation. Catalysts, 2022, 12, 180.	3.5	15
121	Self-healing, antibacterial and anti-inflammatory chitosan-PEG hydrogels for ulcerated skin wound healing and drug delivery. , 2022, 139, 212992.		15
122	Thermal properties and fire behaviour of materials produced from curing mixed epoxy and phenolic resins. Fire and Materials, 2008, 32, 281-292.	2.0	14
123	Sequential single-crystal-to-single-crystal transformations promoted by gradual thermal dehydration in a porous metavanadate hybrid. CrystEngComm, 2015, 17, 8915-8925.	2.6	14
124	Ring-Opening Metathesis Polymerization Kinetics of Cyclooctene with Second Generation Grubbsâ€™ Catalyst. Journal of Macromolecular Science - Pure and Applied Chemistry, 2010, 47, 1130-1134.	2.2	13
125	Temperature Response of Magnetostrictive/Piezoelectric Polymer Magnetoelectric Laminates. Key Engineering Materials, 0, 495, 351-354.	0.4	13
126	Thermal behaviour of H-bonded interpolymer complexes based on polymers with acrylamide or lactame groups and poly(acrylic acid): Influence of N-alkyl and Î±-methyl substitutions. Polymer Degradation and Stability, 2014, 109, 147-153.	5.8	13

#	Article	IF	Citations
127	Poly(L-lactide)/branched Î²-cyclodextrin blends: Thermal, morphological and mechanical properties. Carbohydrate Polymers, 2016, 144, 25-32.	10.2	13
128	Optically transparent silk fibroin/silver nanowire composites for piezoresistive sensing and object recognitions. Journal of Materials Chemistry C, 2020, 8, 13053-13062.	5.5	13
129	Development and characterization of semi-crystalline polyalkenamer based shape memory polymers. Smart Materials and Structures, 2011, 20, 035003.	3.5	12
130	Synthesis and characterization of novel piezoelectric nitrile copolyimide films for high temperature sensor applications. Smart Materials and Structures, 2014, 23, 105015.	3.5	12
131	Connecting free volume with shape memory properties in noncytotoxic gammaâ€irradiated polycyclooctene. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1080-1088.	2.1	12
132	In situ measurements of free volume during recovery process of a shape memory polymer. Polymer, 2017, 109, 66-70.	3.8	12
133	Study of Polymerâ€“Polymer Complexes of Poly(Nâ€Isopropylacrylamide) with Hydroxylâ€Containing Polymers. Journal of Macromolecular Science - Physics, 2004, 43, 437-446.	1.0	11
134	Influence of fillers on the properties of a phenolic resin cured in acidic medium. Journal of Applied Polymer Science, 2008, 108, 387-392.	2.6	11
135	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, 834-846.	3.3	11
136	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	11
137	Improving the Magnetoelectric Response of Laminates Containing High Temperature Piezopolymers. IEEE Transactions on Magnetics, 2013, 49, 42-45.	2.1	11
138	Thermallyâ€Triggered Crystal Dynamics and Permanent Porosity in the First Heptatungstateâ€Metalorganic Threeâ€Dimensional Hybrid Framework. Chemistry - A European Journal, 2017, 23, 14962-14974.	3.3	11
139	Reusable Nanocomposite Membranes for Highly Efficient Arsenite and Arsenate Dual Removal from Water. Advanced Materials Interfaces, 2022, 9, 2101419.	3.7	11
140	Drug Delivery from Hyaluronic Acidâ€“BDDE Injectable Hydrogels for Antibacterial and Anti-Inflammatory Applications. Gels, 2022, 8, 223.	4.5	11
141	Electric modulus and polarization studies on piezoelectric polyimides. Journal of Applied Polymer Science, 2012, 125, 67-76.	2.6	10
142	Nonylphenol polyethoxylate coated body-center-cubic iron nanocrystals for ferrofluids with technical applications. Journal of Applied Physics, 2013, 113, .	2.5	10
143	PCO-LLDPE thermoresponsive shape memory blends. Towards a new generation of breathable and waterproof smart membranes. European Polymer Journal, 2019, 119, 469-476.	5.4	10
144	Enhanced mar/scratch resistance in automotive clear coatings by modifying crosslinked polyurethane network with branched flexible oligomers. Progress in Organic Coatings, 2022, 163, 106668.	3.9	10

#	Article	IF	Citations
145	Dynamic mechanical properties of epoxy-phenolic mixtures. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1548-1555.	2.1	9
146	Synthesis and characterization of near-infrared fluorescent and magnetic iron zero-valent nanoparticles. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 315, 1-7.	3.9	9
147	Optimized Magnetodielectric Coupling on High-Temperature Polymer-Based Nanocomposites. Journal of Physical Chemistry C, 2018, 122, 1821-1827.	3.1	9
148	Thermal, optical and structural properties of blocks and blends of PLA and P2HEB. Green Materials, 2018, 6, 85-96.	2.1	9
149	Toward superior applications of thermoplastic elastomer blends: double T_g increase and improved ductility. Polymer International, 2019, 68, 1130-1139.	3.1	9
150	Structural Characterization of Mono and Dihydroxylated Umbelliferone Derivatives. Molecules, 2020, 25, 3497.	3.8	9
151	Improving the Performance of High Temperature Piezopolymers for Magnetoelectric Applications. Key Engineering Materials, 0, 543, 439-442.	0.4	8
152	Reversible functionalization of nanostructured polymer surfaces via stimuli-responsive interpolymer complexes. European Polymer Journal, 2013, 49, 130-138.	5.4	7
153	Radio Frequency Magnetoelectric Effect Measured at High Temperature. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	7
154	Enhanced Charge-Transfer Emission in Polyimides by Cyano-Groups Doping. Journal of Physical Chemistry B, 2015, 119, 5685-5692.	2.6	7
155	Solvent and relative humidity effect on highly ordered polystyrene honeycomb patterns analyzed by Voronoi tesselation. Journal of Applied Polymer Science, 2016, 133, .	2.6	7
156	Thickness effect on the generation of temperature and curing degree gradients in epoxyâ€“amine thermoset systems. Journal of Thermal Analysis and Calorimetry, 2018, 132, 1867-1881.	3.6	7
157	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.	4.0	7
158	Silk Fibroin Nanocomposites with Indium Tin Oxide toward Sustainable Capacitive Touch Sensing Applications. ACS Applied Electronic Materials, 2022, 4, 1901-1909.	4.3	7
159	Temperature Response of Magnetostrictive/Piezoelectric Polymer Magnetoelectric Laminates. Materials Research Society Symposia Proceedings, 2012, 1398, 15.	0.1	6
160	Advantages of biocides: Î²-cyclodextrin inclusion complexes against active components for pesticide industry. International Journal of Environmental Analytical Chemistry, 2012, 92, 963-978.	3.3	6
161	Impact Damping in NiMnGa/Polymer Composites. Materials Transactions, 2014, 55, 629-632.	1.2	6
162	Influence of N-alkyl and Î±-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.	2.7	6

#	Article	IF	Citations
163	Active release coating of multilayer assembled branched and ionic Î²-cyclodextrins onto poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Over	10.2	6
164	Immobilization of Polyoxometalates on Tailored Polymeric Surfaces. Nanomaterials, 2018, 8, 142.	4.1	6
165	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.	5.8	6
166	Thermal properties of copolymers ofN-vinylcarbazole with acrylic and methacrylic monomers. Journal of Macromolecular Science - Physics, 2002, 41, 241-253.	1.0	5
167	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.	2.1	5
168	Dielectric Properties of Piezoelectric Polyimides. Ferroelectrics, 2008, 370, 3-10.	0.6	5
169	Frozen Polarization of Piezoelectric Polyimides. Ferroelectrics, 2009, 389, 114-121.	0.6	5
170	Air-stable Fe@Au nanoparticles synthesized by the microemulsionâ€™s methods. Journal of the Korean Physical Society, 2013, 62, 1376-1381.	0.7	5
171	Nanopatterned polystyrene-b-poly(acrylic acid) surfaces to modulate cell-material interaction. Materials Science and Engineering C, 2017, 75, 229-236.	7.3	5
172	Hydrolysis of poly(l â€lactide)/ZnO nanocomposites with antimicrobial activity. Journal of Applied Polymer Science, 2019, 136, 47786.	2.6	5
173	Tailoring new bisphenol a ethoxylated shape memory polyurethanes. Journal of Applied Polymer Science, 2021, 138, 49660.	2.6	5
174	Development of Kraft Lignin Chemically Modified as a Novel Crosslinking Agent for the Synthesis of Active Hydrogels. Applied Sciences (Switzerland), 2021, 11, 4012.	2.5	5
175	Resonant Response of Magnetostrictive/New Piezoelectric Polymer Magnetoelectric Laminate. Sensor Letters, 2013, 11, 134-137.	0.4	5
176	Poly(l-lactide)-Based Anti-Inflammatory Responsive Surfaces for Surgical Implants. Polymers, 2021, 13, 34.	4.5	5
177	Reutilization of thermostable polyester wastes by means of agglomeration with phenolic resins. Waste Management, 2010, 30, 2305-2311.	7.4	4
178	New Polyurethaneâ€based magnetostrictive composites: Dynamical mechanical properties. Polymer Engineering and Science, 2013, 53, 744-751.	3.1	4
179	Tough Hydrogels Based on Maleic Anhydride, Bulk Properties Study and Microfiber Formation by Electrospinning. Polymers, 2021, 13, 972.	4.5	4
180	Effect of metalâ€oxide nanoparticle presence and alginate crossâ€linking on cellulose nanocrystalâ€based aerogels. Journal of Applied Polymer Science, 2021, 138, 50639.	2.6	4

#	Article	IF	Citations
181	Tuning magnetic response and ionic conductivity of electrospun hybrid membranes for tissue regeneration strategies. Polymers for Advanced Technologies, 2022, 33, 1233-1243.	3.2	4
182	Ionic liquid modified electroactive polymer-based microenvironments for tissue engineering. Polymer, 2022, 246, 124731.	3.8	4
183	Polyalkene-based shape-memory polymers. , 2007, , .		3
184	Biodegradable Shape-Memory Polymers. Advanced Structured Materials, 2020, , 219-236.	0.5	3
185	Thermal Degradation of Copolymers of Nâ€Vinylcarbazole with Acrylic and Methacrylic Monomers. Journal of Macromolecular Science - Pure and Applied Chemistry, 2006, 43, 1029-1041.	2.2	2
186	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
187	Toward Advanced Functional Systems: Honeycomb-Like Polymeric Surfaces Incorporating Polyoxovanadates with Surface-Appended Copper-Cyclam Complexes. Molecules, 2019, 24, 2313.	3.8	2
188	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, 167.	2.9	2
189	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.	1.9	2
190	Hydrogel-Core Microstructured Polymer Optical Fibers for Selective Fiber Enhanced Raman Spectroscopy. Sensors, 2021, 21, 1845.	3.8	2
191	Controlling tackiness of shape memory polyurethanes for textile applications. Journal of Polymer Research, 2021, 28, 1.	2.4	2
192	Poly(lactic-co-glycolide) based biodegradable electrically and magnetically active microenvironments for tissue regeneration applications. European Polymer Journal, 2022, , 111197.	5.4	2
193	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
194	Synthesis and Characterization of New Thiopheneâ€Derived Polymers. Advances in Polymer Technology, 2014, 33, .	1.7	1
195	Study of the capacity of poly(Nâ€vinylcarbazole) derivatives to form honeycombâ€like patterns. Journal of Applied Polymer Science, 2021, 138, 50975.	2.6	1
196	Magnetostrictive Properties of Polymer-Bonded Terfenol-D Composites. Sensor Letters, 2007, 5, 23-25.	0.4	1
197	Synthesis and characterization of shape memory polyurethanes. , 0, , .		1
198	Magnetostrictive and mechanical properties of Terfenol-D composites based on polymer. Proceedings of SPIE, 2007, , .	0.8	0

#	Article	IF	Citations
199	Copolymerization of acenaphthylene with methacrylic monomers. E-Polymers, 2011, 11, .	3.0	0
200	Interference lithography with functional block copolymer blends: Hierarchical structuration and anisotropic wetting. European Polymer Journal, 2017, 90, 25-36.	5.4	0
201	PROJECT-BASED LEARNING IN INSTRUMENTAL TECHNIQUES FOR UNDERGRADUATE PHARMACY STUDENTS. , 2017, , .		0
202	CREATING A SME, A PROJECT-BASED LEARNING APPROACH TO IMPROVE KNOWLEDGE AND TRANSVERSAL SKILLS ON CHEMISTRY UNDERGRADUATES. EDULEARN Proceedings, 2017, , .	0.0	0
203	THERMO-ACTIVE SHAPE MEMORY MULTI-LAYER PAPERBOARD PACKAGING. Dyna (Spain), 2019, 94, 384-389.	0.2	0
204	Nanobioremediation for soil remediation: An introduction. , 2022, , 479-500.		0