

Alfonso Maffezzoli

List of Publications by Year in descending order

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229
papers

8,643
citations

38720

50
h-index

62565

80
g-index

233
all docs

233
docs citations

233
times ranked

8455
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel superabsorbent cellulose-based hydrogels crosslinked with citric acid. <i>Journal of Applied Polymer Science</i> , 2008, 110, 2453-2460.	1.3	386
2	Effect of hydroxides and hydroxycarbonate structure on fire retardant effectiveness and mechanical properties in ethylene-vinyl acetate copolymer. <i>Polymer Degradation and Stability</i> , 2001, 74, 457-464.	2.7	268
3	Synthesis of a novel cardanol-based benzoxazine monomer and environmentally sustainable production of polymers and bio-composites. <i>Green Chemistry</i> , 2007, 9, 754.	4.6	254
4	Monitoring Wood Degradation during Weathering by Cellulose Crystallinity. <i>Materials</i> , 2012, 5, 1910-1922.	1.3	212
5	Use of steel fibres recovered from waste tyres as reinforcement in concrete: Pull-out behaviour, compressive and flexural strength. <i>Waste Management</i> , 2009, 29, 1960-1970.	3.7	191
6	Potential of Cellulose-Based Superabsorbent Hydrogels as Water Reservoir in Agriculture. <i>International Journal of Polymer Science</i> , 2013, 2013, 1-6.	1.2	178
7	Highly loaded hydroxyapatite microsphere/ PLA porous scaffolds obtained by fused deposition modelling. <i>Ceramics International</i> , 2019, 45, 2803-2810.	2.3	173
8	The principles of dielectric measurements for in situ monitoring of composite processing. <i>Composites Science and Technology</i> , 1993, 49, 277-290.	3.8	150
9	Plasticizer for poly(vinyl chloride) from cardanol as a renewable resource material. <i>Polymer Degradation and Stability</i> , 2010, 95, 2169-2174.	2.7	150
10	Degradation behaviour of a composite material for thermal protection systems Part I – Experimental characterization. <i>Journal of Materials Science</i> , 1998, 33, 3137-3143.	1.7	132
11	Crosslinking of cellulose derivatives and hyaluronic acid with water-soluble carbodiimide. <i>Polymer</i> , 2005, 46, 11206-11212.	1.8	128
12	A magnetic and highly reusable macroporous superhydrophobic/superoleophilic PDMS/MWNT nanocomposite for oil sorption from water. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17685-17696.	5.2	128
13	Monitoring the Cure State of Thermosetting Resins by Ultrasound. <i>Materials</i> , 2013, 6, 3783-3804.	1.3	112
14	Characterization of antibacterial silver coated yarns. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 2361-2366.	1.7	110
15	Cellulose Derivative-Hyaluronic Acid-Based Microporous Hydrogels Cross-Linked through Divinyl Sulfone (DVS) To Modulate Equilibrium Sorption Capacity and Network Stability. <i>Biomacromolecules</i> , 2004, 5, 92-96.	2.6	106
16	A model for the thermal and chemorheological behavior of thermoset processing: (II) Unsaturated polyester based composites. <i>Composites Science and Technology</i> , 1990, 38, 339-358.	3.8	102
17	Antibacterial coatings on haemodialysis catheters by photochemical deposition of silver nanoparticles. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 2005-2012.	1.7	100
18	Hybrid ultrasonic spot welding of aluminum to carbon fiber reinforced epoxy composites. <i>Journal of Materials Processing Technology</i> , 2017, 247, 289-295.	3.1	98

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19	Ultrasonic spot welding of carbon fiber reinforced epoxy composites to aluminum: mechanical and electrochemical characterization. <i>Composites Part B: Engineering</i> , 2018, 144, 134-142.	5.9	94
20	Photopolymerization of dental composite matrices. <i>Biomaterials</i> , 1994, 15, 1221-1228.	5.7	88
21	Development and characterization of UV curable epoxy/hydroxyapatite suspensions for stereolithography applied to bone tissue engineering. <i>Ceramics International</i> , 2014, 40, 15455-15462.	2.3	88
22	Influence of crystal and amorphous phase morphology on hydrolytic degradation of PLLA subjected to different processing conditions. <i>Polymer</i> , 2001, 42, 3799-3807.	1.8	87
23	Curing and viscoelasticity of vitrimers. <i>Soft Matter</i> , 2017, 13, 258-268.	1.2	82
24	Cardanol based matrix biocomposites reinforced with natural fibres. <i>Composites Science and Technology</i> , 2004, 64, 839-845.	3.8	81
25	The feasibility of printing polylactic acid-nanohydroxyapatite composites using a low-cost fused deposition modeling 3D printer. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	81
26	The challenge of high-performance selective emitters for thermophotovoltaic applications. <i>Semiconductor Science and Technology</i> , 2003, 18, S174-S183.	1.0	80
27	Mechanical properties of basalt fibers and their adhesion to polypropylene matrices. <i>Composites Part B: Engineering</i> , 2014, 67, 233-238.	5.9	80
28	Laser stereolithography of ZrO ₂ toughened Al ₂ O ₃ . <i>Journal of the European Ceramic Society</i> , 2005, 25, 1581-1589.	2.8	76
29	Polymer characterization by ultrasonic wave propagation. <i>Advances in Polymer Technology</i> , 2008, 27, 63-73.	0.8	73
30	The aspect ratio of epoxy matrix nanocomposites reinforced with graphene stacks. <i>Polymer Engineering and Science</i> , 2013, 53, 531-539.	1.5	72
31	Photopolymerization kinetics of an epoxy-based resin for stereolithography. <i>Journal of Applied Polymer Science</i> , 2004, 92, 3484-3491.	1.3	69
32	Synthesis and characterization of clay-nanocomposite solvent-based polyurethane adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2008, 28, 91-100.	1.4	69
33	Ultrasonic monitoring of the network formation in superabsorbent cellulose based hydrogels. <i>Polymer</i> , 2005, 46, 1796-1803.	1.8	65
34	3D printing of hydroxyapatite polymer-based composites for bone tissue engineering. <i>Journal of Polymer Engineering</i> , 2017, 37, 741-746.	0.6	65
35	Transport properties of graphite/epoxy composites: Thermal, permeability and dielectric characterization. <i>Polymer Testing</i> , 2013, 32, 880-888.	2.3	64
36	Hybrid welding of carbon-fiber reinforced epoxy based composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 104, 32-40.	3.8	64

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37	Title is missing!. Journal of Materials Science, 2000, 35, 4563-4566.	1.7	62
38	Glass transition in thermosetting clay-nanocomposite polyurethanes. Thermochemica Acta, 2009, 485, 43-48.	1.2	61
39	Effects of diffusion of a naturally-derived plasticizer from soft PVC. Polymer Degradation and Stability, 2011, 96, 784-789.	2.7	59
40	Fabrication of a thermoplastic matrix composite stiffened panel by induction welding. Aerospace Science and Technology, 2015, 43, 314-320.	2.5	59
41	Nanostructured active chitosan-based films for food packaging applications: Effect of graphene stacks on mechanical properties. Measurement: Journal of the International Measurement Confederation, 2016, 90, 418-423.	2.5	58
42	Graphene oxide as a catalyst for ring opening reactions in amine crosslinking of epoxy resins. RSC Advances, 2016, 6, 23858-23865.	1.7	58
43	Hepatic Vessel Segmentation for 3D Planning of Liver Surgery. Academic Radiology, 2011, 18, 461-470.	1.3	57
44	Degradation behaviour of a composite material for thermal protection systemsPart II Process simulation. Journal of Materials Science, 1998, 33, 3145-3149.	1.7	56
45	Photo DSC and real time FT-IR kinetic study of a UV curable epoxy resin containing o-Boehmites. European Polymer Journal, 2008, 44, 2010-2023.	2.6	56
46	Catalytic activity of graphite-based nanofillers on cure reaction of epoxy resins. Polymer, 2014, 55, 5612-5615.	1.8	56
47	Antimicrobial modified hydroxyapatite composite dental bite by stereolithography. Polymers for Advanced Technologies, 2018, 29, 364-371.	1.6	56
48	Effect of irradiation intensity on the isothermal photopolymerization kinetics of acrylic resins for stereolithography. Thermochemica Acta, 1998, 321, 111-121.	1.2	55
49	Finite element modeling of continuous induction welding of thermoplastic matrix composites. Materials and Design, 2017, 120, 212-221.	3.3	55
50	Adhesive joints with improved mechanical properties for aerospace applications. International Journal of Adhesion and Adhesives, 2017, 75, 174-180.	1.4	55
51	One-step solvent-free process for the fabrication of high loaded PLA/HA composite filament for 3D printing. Journal of Thermal Analysis and Calorimetry, 2018, 134, 575-582.	2.0	53
52	Stereolithography of ceramic suspensions. Journal of Materials Science, 2001, 36, 99-105.	1.7	52
53	Introduction of molecular spacers between the crosslinks of a cellulose-based superabsorbent hydrogel: Effects on the equilibrium sorption properties. Journal of Applied Polymer Science, 2003, 90, 168-174.	1.3	52
54	Thermal and chemical treatments of recycled carbon fibres for improved adhesion to polymeric matrix. Journal of Composite Materials, 2013, 47, 369-377.	1.2	52

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55	A cellulose-based hydrogel as a potential bulking agent for hypocaloric diets: An in vitro biocompatibility study on rat intestine. <i>Journal of Applied Polymer Science</i> , 2006, 102, 1524-1530.	1.3	51
56	Silica moulds built by stereolithography. <i>Journal of Materials Science</i> , 2005, 40, 4899-4904.	1.7	50
57	Correlation between dielectric and chemorheological properties during cure of epoxy-based composites. <i>Journal of Materials Science</i> , 1994, 29, 800-808.	1.7	49
58	Polymer melting and polymer powder sintering by thermal analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003, 72, 1167-1174.	2.0	49
59	Modeling of continuous ultrasonic impregnation and consolidation of thermoplastic matrix composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 82, 119-129.	3.8	48
60	Evaluation of the degree of dispersion of nanofillers by mechanical, rheological, and permeability analysis. <i>Polymer Engineering and Science</i> , 2011, 51, 1280-1285.	1.5	46
61	Reversible techniques for FRP-confinement of masonry columns. <i>Construction and Building Materials</i> , 2019, 225, 415-428.	3.2	46
62	Powder-shape analysis and sintering behavior of high-density polyethylene powders for rotational molding. <i>Journal of Applied Polymer Science</i> , 2004, 92, 449-460.	1.3	45
63	Ultrasonic Dynamic Mechanical Analysis of Polymers. <i>Applied Rheology</i> , 2005, 15, 326-335.	3.5	45
64	UV-curable epoxy systems containing hyperbranched polymers: Kinetics investigation by photo-DSC and real-time FT-IR experiments. <i>Polymer Testing</i> , 2009, 28, 157-164.	2.3	45
65	The Retrogradation of Concentrated Wheat Starch Systems. <i>Starch/Staerke</i> , 2005, 57, 16-24.	1.1	44
66	Dielectric characterization of water sorption in epoxy resin matrices. <i>Polymer Engineering and Science</i> , 1993, 33, 75-82.	1.5	43
67	Gelation of waxy crude oils by ultrasonic and dynamic mechanical analysis. <i>Rheologica Acta</i> , 2007, 46, 601-609.	1.1	43
68	Hydrogel based tissue mimicking phantom for <i>in vitro</i> ultrasound contrast agents studies. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 87B, 338-345.	1.6	42
69	Synthesis and characterization of macroporous poly(ethylene glycol)-based hydrogels for tissue engineering application. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 229-236.	2.1	41
70	Flexural creep behaviour of PP matrix woven composite. <i>Composites Science and Technology</i> , 2007, 67, 1148-1158.	3.8	41
71	Development and characterization of cellulose-based hydrogels for use as dietary bulking agents. <i>Journal of Applied Polymer Science</i> , 2010, 115, 1438-1444.	1.3	39
72	Analysis of the structure and mass transport properties of clay nanocomposites based on amorphous PET. <i>Journal of Applied Polymer Science</i> , 2010, 118, 3666-3672.	1.3	39

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73	An Overview of Progress and Current Challenges in Ultrasonic Treatment of Polymer Melts. <i>Advances in Polymer Technology</i> , 2013, 32, .	0.8	39
74	Simulation of heat transfer during rotational molding. <i>Advances in Polymer Technology</i> , 2003, 22, 271-279.	0.8	38
75	Free form fabrication of silica moulds for aluminium casting by stereolithography. <i>Rapid Prototyping Journal</i> , 2006, 12, 184-188.	1.6	37
76	Collagen- and gelatine-based films sealing vascular prostheses: evaluation of the degree of crosslinking for optimal blood impermeability. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 1979-1989.	1.7	37
77	Effect of the epoxidation yield of a cardanol derivative on the plasticization and durability of soft PVC. <i>Polymer Degradation and Stability</i> , 2016, 134, 220-226.	2.7	37
78	Spring-in angle as molding distortion for thermoplastic matrix composite. <i>Composites Science and Technology</i> , 2008, 68, 3047-3054.	3.8	36
79	Analysis of the structure and mass transport properties of nanocomposite polyurethane. <i>Polymer Engineering and Science</i> , 2009, 49, 1708-1718.	1.5	36
80	Silver-coated wool yarns with durable antibacterial properties. <i>Journal of Applied Polymer Science</i> , 2012, 125, 2239-2244.	1.3	36
81	Embedding of Superelastic SMA Wires into Composite Structures: Evaluation of Impact Properties. <i>Journal of Materials Engineering and Performance</i> , 2009, 18, 522-530.	1.2	35
82	Nanofilled polyols for viscoelastic polyurethane foams. <i>Polymer International</i> , 2010, 59, 486-491.	1.6	35
83	Viscoelastic and thermal characterization of crosslinked PVC. <i>European Polymer Journal</i> , 2006, 42, 961-969.	2.6	34
84	In-situ polymerization behaviour of bone cements. <i>Journal of Materials Science: Materials in Medicine</i> , 1997, 8, 75-83.	1.7	33
85	Laser stereolithography of ZrO ₂ toughened Al ₂ O ₃ . <i>Journal of the European Ceramic Society</i> , 2004, 24, 3769-3777.	2.8	33
86	Relaxations during the postcure of unsaturated polyester networks by ultrasonic wave propagation, dynamic mechanical analysis, and dielectric analysis. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 596-602.	2.4	33
87	Phase transformations during the cure of unsaturated polyester resins. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 370, 284-287.	2.6	32
88	Processing-properties relationship of sandwich panels with polypropylene-core and polypropylene-matrix composite skins. <i>Polymer Composites</i> , 2004, 25, 307-318.	2.3	32
89	A Comparative Study Between Bio-composites Obtained with <i>Opuntia ficus indica</i> Cladodes and Flax Fibers. <i>Journal of Polymers and the Environment</i> , 2013, 21, 910-916.	2.4	32
90	A methodology to orient carbon nanotubes in a thermosetting matrix. <i>Composites Science and Technology</i> , 2014, 96, 47-55.	3.8	32

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91	Cardanol derivatives as innovative bio-plasticizers for poly-(lactic acid). <i>Polymer Degradation and Stability</i> , 2016, 132, 213-219.	2.7	32
92	UV and thermal stability of soft PVC plasticized with cardanol derivatives. <i>Journal of Cleaner Production</i> , 2017, 164, 757-764.	4.6	31
93	Lay-Up and Consolidation of a Composite Pipe by In Situ Ultrasonic Welding of a Thermoplastic Matrix Composite Tape. <i>Materials</i> , 2018, 11, 786.	1.3	31
94	On the physical dimensions of the Avrami constant. <i>Thermochimica Acta</i> , 1995, 269-270, 185-190.	1.2	30
95	Effect of binder powders added to carbon fiber reinforcements on the chemoreology of an epoxy resin for composites. <i>Composites Part B: Engineering</i> , 2017, 112, 243-250.	5.9	30
96	A new kinetic model for polymer crystallization derived by calorimetric analysis. <i>Thermochimica Acta</i> , 1993, 227, 83-95.	1.2	29
97	Photopolymerization kinetics of an epoxy based resin for stereolithography. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003, 72, 687-693.	2.0	29
98	Temperature evolution during stereolithography building with a commercial epoxy resin. <i>Polymer Engineering and Science</i> , 2006, 46, 493-502.	1.5	29
99	Spin coating cellulose derivatives on quartz crystal microbalance plates to obtain hydrogel-based fast sensors and actuators. <i>Journal of Applied Polymer Science</i> , 2007, 106, 3040-3050.	1.3	29
100	Antibacterial natural leather for application in the public transport system. <i>Journal of Coatings Technology Research</i> , 2013, 10, 239-245.	1.2	29
101	Evaluation of the degree of cross-linking of cellulose-based superabsorbent hydrogels: a comparison between different techniques. <i>Macromolecular Symposia</i> , 2003, 200, 199-208.	0.4	28
102	Ultrasonic investigation of wheat starch retrogradation. <i>Journal of Food Engineering</i> , 2006, 75, 258-266.	2.7	28
103	Effects of thermal history in the ring opening polymerization of CBT and its mixtures with montmorillonite on the crystallization of the resulting poly(butylene terephthalate). <i>Thermochimica Acta</i> , 2009, 493, 61-67.	1.2	28
104	Rotational molding of biodegradable composites obtained with <sc>PLA</sc> reinforced by the wooden backbone of opuntia ficus indica cladodes. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	28
105	A macrokinetic approach to crystallization applied to a new thermoplastic polyimide (New TPI) as a model polymer. <i>Journal of Applied Polymer Science</i> , 1995, 56, 985-993.	1.3	27
106	Mechanical and Vibration Characteristics of Laminated Composite Plates Embedding Shape Memory Alloy Superelastic Wires. <i>Journal of Materials Engineering and Performance</i> , 2009, 18, 531-537.	1.2	27
107	Experimental and Numerical Study of Vacuum Resin Infusion of Stiffened Carbon Fiber Reinforced Panels. <i>Materials</i> , 2020, 13, 4800.	1.3	27
108	Cure kinetics and properties of epoxy resins containing a phosphorous-based flame retardant. <i>Advances in Polymer Technology</i> , 2003, 22, 329-342.	0.8	26

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109	Erbium containing ceramic emitters for thermophotovoltaic energy conversion. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 98, 144-149.	1.7	26
110	Development of polymeric foams from recycled polyethylene and recycled gypsum. <i>Polymer Degradation and Stability</i> , 2005, 90, 256-263.	2.7	26
111	Air-Coupled Ultrasound: A Novel Technique for Monitoring the Curing of Thermosetting Matrices. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 1437-1444.	1.7	26
112	Processing and characterization of amorphous polyethylene terephthalate fibers for the alignment of carbon nanofillers in thermosetting resins. <i>Polymer Composites</i> , 2015, 36, 1096-1103.	2.3	26
113	Effects of Blank Quality on Press-Formed PEKK/Carbon Composite Parts. <i>Materials</i> , 2018, 11, 1063.	1.3	26
114	Use of cardanol derivatives as plasticizers for PVC. <i>Journal of Vinyl and Additive Technology</i> , 2018, 24, E62.	1.8	25
115	Reliability of Protective Coatings for Flexible Piezoelectric Transducers in Aqueous Environments. <i>Micromachines</i> , 2019, 10, 739.	1.4	25
116	Mechanical properties of poly(lactid acid) plasticized by cardanol derivatives. <i>Polymer Degradation and Stability</i> , 2019, 159, 199-204.	2.7	25
117	3D Printing of Polymer Waste for Improving People's Awareness about Marine Litter. <i>Polymers</i> , 2020, 12, 1738.	2.0	25
118	Correction of melting peaks of different PE grades accounting for heat transfer in DSC samples. <i>Polymer Testing</i> , 2008, 27, 61-74.	2.3	24
119	A macrokinetic approach to crystallization modelling of semicrystalline thermoplastic matrices for advanced composites. <i>Journal of Materials Science</i> , 1993, 28, 4994-5001.	1.7	23
120	Time-temperature and time-irradiation intensity superposition for photopolymerization of an epoxy based resin. <i>Polymer</i> , 2005, 46, 8018-8027.	1.8	23
121	Low-velocity impact response in composite plates embedding shape memory alloy wires. <i>Polymer Composites</i> , 2012, 33, 655-664.	2.3	23
122	Thermal analysis of poly(lactic acid) plasticized by cardanol derivatives. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 559-565.	2.0	23
123	Cure behaviour of visible light activated dental composites. <i>Journal of Materials Science: Materials in Medicine</i> , 1995, 6, 155-160.	1.7	22
124	Optimization of Parts Placement in Autoclave Processing of Composites. <i>Applied Composite Materials</i> , 2013, 20, 233-248.	1.3	22
125	Two-dimensional and three-dimensional simulation of diffusion in nanocomposite with arbitrarily oriented lamellae. <i>Journal of Membrane Science</i> , 2013, 442, 238-244.	4.1	22
126	Selective reinforcement of LLDPE components produced by rotational molding with thermoplastic matrix pultruded profiles. <i>Composites Part B: Engineering</i> , 2014, 56, 157-162.	5.9	22

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127	Correlation between elastic properties and morphology in short fiber composites by X-ray computed micro-tomography. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 140, 106169.	3.8	22
128	Mathematical modeling of the pultrusion of epoxy based composites. <i>Advances in Polymer Technology</i> , 1990, 10, 251-264.	0.8	21
129	Recycling of PP-based Sandwich Panels with Continuous Fiber Composite Skins. <i>Journal of Thermoplastic Composite Materials</i> , 2006, 19, 731-745.	2.6	21
130	A preliminary study on bladder-assisted rotomolding of thermoplastic polymer composites. <i>Advances in Polymer Technology</i> , 2007, 26, 21-32.	0.8	20
131	Synthesis and characterization of optically transparent epoxy matrix nanocomposites. <i>Materials Science and Engineering C</i> , 2009, 29, 1798-1802.	3.8	20
132	Echographic detectability of optoacoustic signals from low-concentration PEG-coated gold nanorods. <i>International Journal of Nanomedicine</i> , 2012, 7, 4373.	3.3	20
133	Production and Characterization of Polyethylene Terephthalate Nanoparticles. <i>Polymers</i> , 2021, 13, 3745.	2.0	20
134	An investigation into sintering of PA6 nanocomposite powders for rotational molding. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 109, 1493-1502.	2.0	19
135	Sintering of PLLA powders for rotational molding. <i>Thermochimica Acta</i> , 2014, 582, 59-67.	1.2	19
136	Structural behaviour modelling of bolted joints in composite laminates subjected to cyclic loading. <i>Aerospace Science and Technology</i> , 2015, 43, 89-95.	2.5	19
137	A Study on exfoliation of Expanded Graphite Stacks in Candelilla Wax. <i>Materials</i> , 2019, 12, 2530.	1.3	19
138	Sol-Gel Preparation of Selective Emitters for Thermophotovoltaic Conversion. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 1119-1123.	1.1	18
139	Statistical and kinetic approaches for linear low-density polyethylene melting modeling. <i>Journal of Applied Polymer Science</i> , 2003, 89, 289-295.	1.3	18
140	Analysis of the Suitability of Poly(lactic acid) in Rotational Molding Process. <i>Advances in Polymer Technology</i> , 2015, 34, .	0.8	18
141	Development and Characterization of Amorphous Thermoplastic Matrix Graphene Nanocomposites. <i>Materials</i> , 2012, 5, 1972-1985.	1.3	17
142	Effect of the addition of organically modified nanofiller on the relaxation behavior of a thermoplastic amorphous matrix. <i>Thermochimica Acta</i> , 2012, 543, 226-231.	1.2	17
143	PolyDiethyleneglycolâ€“bisallyl carbonate matrix transparent nanocomposites reinforced with bacterial cellulose microfibrils. <i>European Polymer Journal</i> , 2017, 93, 192-199.	2.6	17
144	Thermal analysis of visible-light-activated dental composites. <i>Thermochimica Acta</i> , 1995, 269-270, 319-335.	1.2	16

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145	Thermal analysis of thermoplastic matrices for advanced composite materials: poly(phenylene) Tj ETQq1 1 0.784314,rgBT /Overlock 10	1.2	15
146	Porous Garnet Coatings Tailoring the Emissivity of Thermostructural Materials. Journal of Sol-Gel Science and Technology, 2004, 32, 247-251.	1.1	15
147	Synthesis, Curing, and Properties of an Epoxy Resin Derived from Gallic Acid. BioResources, 2017, 13, .	0.5	15
148	Network development during epoxy curing: experimental ultrasonic data and theoretical predictions. Macromolecular Symposia, 2002, 180, 73-88.	0.4	14
149	Monitoring the drying process of lasagna pasta through a novel sensing device-based method. Journal of Food Engineering, 2005, 69, 51-59.	2.7	14
150	Assessment of the relevance of sintering in thermoplastic commingled yarn consolidation. Polymer Composites, 2011, 32, 657-664.	2.3	14
151	Ultrasonic Assisted Consolidation of Commingled Thermoplastic/Glass Fiber Rovings. Frontiers in Materials, 2015, 2, .	1.2	14
152	Rotational Molding of Poly(lactic acid): Effect of Polymer Grade and Granulometry. Advances in Polymer Technology, 2017, 36, 477-482.	0.8	14
153	Processing of Super Tough Plasticized PLA by Rotational Molding. Advances in Polymer Technology, 2019, 2019, 1-8.	0.8	14
154	Development of Semi- and Grafted Interpenetrating Polymer Networks Based on Poly(Ethylene Glycol) Diacrylate and Collagen. Journal of Applied Biomaterials and Functional Materials, 2014, 12, 183-192.	0.7	13
155	Development of hybrid cotton/hydrogel yarns with improved absorption properties for biomedical applications. Materials Science and Engineering C, 2016, 63, 563-569.	3.8	13
156	Effect of multi-scale diffusion on the permeability behavior of intercalated nanocomposites. Journal of Membrane Science, 2016, 505, 92-99.	4.1	13
157	Autofluorescence of Model Polyethylene Terephthalate Nanoplastics for Cell Interaction Studies. Nanomaterials, 2022, 12, 1560.	1.9	13
158	Modeling of the dynamic mechanical properties of semicrystalline thermoplastic matrix composites. Polymer Composites, 1992, 13, 386-393.	2.3	12
159	Engineering Nanostructured Silver Coatings for Antimicrobial Applications. , 2012, , 313-336.		12
160	A Measure of CNTs Dispersion in Polymers With Branched Molecular Architectures by UDMA. IEEE Nanotechnology Magazine, 2016, 15, 731-737.	1.1	12
161	Characterization of the kinetic behavior of resin modified glass-ionomer cements by DSC, TMA and ultrasonic wave propagation. Journal of Materials Science: Materials in Medicine, 2001, 12, 151-156.	1.7	11
162	Air-Coupled Ultrasonic Cure Monitoring of Unsaturated Polyester Resins. Macromolecular Symposia, 2007, 247, 50-58.	0.4	11

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163	Catalytic Activity of Oxidized Carbon Black and Graphene Oxide for the Crosslinking of Epoxy Resins. <i>Polymers</i> , 2017, 9, 133.	2.0	11
164	Cure behaviour of visible light activated dental composites. <i>Journal of Materials Science: Materials in Medicine</i> , 1995, 6, 161-166.	1.7	10
165	Glass-rubber phase transformation detected in polymers by means of ultrasonic waves. <i>Journal of Alloys and Compounds</i> , 2000, 310, 382-387.	2.8	10
166	Polymeric meshes for internal sutures with differentiated adhesion on the two sides. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 289-296.	1.7	10
167	Cardanol Based Matrix for Jute Reinforced Pipes. <i>Macromolecular Symposia</i> , 2010, 296, 526-530.	0.4	10
168	Ultrasonic transducers for cure monitoring: design, modelling and validation. <i>Measurement Science and Technology</i> , 2011, 22, 124002.	1.4	10
169	Micro- and macro-impregnation of fabrics using thermoplastic matrices. <i>Journal of Thermoplastic Composite Materials</i> , 2013, 26, 527-543.	2.6	10
170	Finite Element Modeling of Multiscale Diffusion in Intercalated Nanocomposites. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-11.	1.5	10
171	On-line Consolidation of Commingled Polypropylene/Glass Roving During Filament Winding. <i>Journal of Thermoplastic Composite Materials</i> , 2011, 24, 789-804.	2.6	9
172	Processing and Properties of a Polymer/Composite Double-Layer Laminate. <i>Advances in Polymer Technology</i> , 2013, 32, E32-E43.	0.8	9
173	Catalytic Activity of Oxidized Carbon Waste Ashes for the Crosslinking of Epoxy Resins. <i>Polymers</i> , 2019, 11, 1011.	2.0	9
174	Rheological analysis of thermo-responsive alginate/PNIPAAm graft copolymers synthesized by gamma radiation. <i>Radiation Physics and Chemistry</i> , 2019, 156, 38-43.	1.4	9
175	Processing, mechanical properties, and interfacial bonding of a thermoplastic core-foam/composite-skin sandwich panel. <i>Advances in Polymer Technology</i> , 2010, 29, 137-145.	0.8	8
176	Finite element simulation and analytical modeling of 3D multi scale diffusion in nanocomposites with permeable stacks. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2016, 24, 015003.	0.8	8
177	A mathematical modeling approach to optimize composite parts placement in autoclave. <i>International Transactions in Operational Research</i> , 2017, 24, 115-141.	1.8	8
178	Diffusion in oriented lamellar nanocomposite: Numerical analysis of the effects of dispersion and intercalation. <i>Computational Materials Science</i> , 2017, 133, 45-51.	1.4	8
179	Active SHM for composite pipes using piezoelectric sensors. <i>Materials Today: Proceedings</i> , 2021, 34, 1-9.	0.9	8
180	Shear buckling of aerospace panels made by induction welded thermoplastic matrix composite elements. <i>Polymer Composites</i> , 2022, 43, 4544-4555.	2.3	8

#	ARTICLE	IF	CITATIONS
181	Numerical simulation of the microscale impregnation in commingled thermoplastic composite yarns. <i>Advances in Polymer Technology</i> , 2010, 29, 122-130.	0.8	7
182	Resin pressure evolution during autoclave curing of epoxy matrix composites. <i>Polymer Engineering and Science</i> , 2017, 57, 631-637.	1.5	7
183	Deep Control of Linear Oligomerization of Glycerol Using Lanthanum Catalyst on Mesoporous Silica Gel. <i>Catalysts</i> , 2020, 10, 1170.	1.6	7
184	Out-Of-Plane Permeability Evaluation of Carbon Fiber Preforms by Ultrasonic Wave Propagation. <i>Materials</i> , 2020, 13, 2684.	1.3	7
185	Smoldering and Flame Resistant Textiles via Conformal Barrier Formation. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600617.	1.9	6
186	Orientation of Graphene Nanoplatelets in Thermosetting Matrices. <i>IEEE Nanotechnology Magazine</i> , 2016, 15, 877-883.	1.1	6
187	SOLUBILITY AND DURABILITY OF CARDANOL DERIVED PLASTICIZERS FOR SOFT PVC. <i>Environmental Engineering and Management Journal</i> , 2016, 15, 1989-1995.	0.2	6
188	A study of the water sorption kinetic of Poly(HEMA) hydrogels by SLAM and FT-IR measurements. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1996, 43, 948-955.	1.7	5
189	Kinetic Studies of Liquid Crystalline and Isotropic Vinyl Ester Resins. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 2175-2184.	1.1	5
190	Effect of a Nanodispersed Clay Fillers on Glass Transition of Thermosetting Polyurethane. <i>Macromolecular Symposia</i> , 2009, 286, 180-186.	0.4	5
191	Experimental measurement of transversal micro and macro permeability during compression molding of PP/Glass composites. <i>Polymer Composites</i> , 2014, 35, 105-112.	2.3	5
192	Efficient utilization of plastic waste through product design and process adaptation: A case study on stiffness enhancement of beams produced from plastic lumber. <i>Advances in Polymer Technology</i> , 2008, 27, 133-142.	0.8	4
193	Rotational molding of bio-polymers. <i>AIP Conference Proceedings</i> , 2014, , .	0.3	4
194	Mechanical and durability properties of soft PVC plasticized by cardanol derivatives. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	4
195	Editorial: Advanced Thermoplastic Composites and Manufacturing Processes. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	4
196	Compression behavior of soft PVC foams obtained by cardanol-derived plasticizer. <i>Journal of Cellular Plastics</i> , 2020, 56, 515-530.	1.2	4
197	Determination of the crystallization enthalpy of new-TPI. <i>Journal of Applied Polymer Science</i> , 1998, 67, 763-766.	1.3	4
198	Title is missing!. <i>Magyar Árvad Kzlemnyek</i> , 2000, 61, 565-578.	1.4	3

#	ARTICLE	IF	CITATIONS
199	Preformed microspherical inclusions for rheological control and physical property modification of epoxy resins. <i>Journal of Applied Polymer Science</i> , 2006, 100, 748-757.	1.3	3
200	Acrylic-based hydrogel phantom for in vitro ultrasound contrast agent characterization. <i>Virtual and Physical Prototyping</i> , 2007, 2, 191-196.	5.3	3
201	Water Vapor Permeability of Clay Nanocomposites Based on Amorphous PET. <i>Defect and Diffusion Forum</i> , 0, 297-301, 422-426.	0.4	3
202	Ultra-low mass drift chambers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 718, 443-445.	0.7	3
203	A Perspective on the Prowaste Concept: Efficient Utilization of Plastic Waste through Product Design and Process Innovation. <i>Materials</i> , 2014, 7, 5385-5402.	1.3	3
204	Carbon nanotube alignment in a thermosetting resin. <i>AIP Conference Proceedings</i> , 2014, , .	0.3	3
205	Rotational moulding of poly-lactic acid. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	3
206	Buckling Behavior of Poly-Phenylene-Sulfide/Carbon L-Shaped Stringers and a Stiffened Panel Obtained by Induction Welding. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	3
207	Time-dependent shape of bistable unsymmetric carbon fibers-epoxy thin laminates. <i>Smart Materials and Structures</i> , 2021, 30, 035004.	1.8	3
208	Replicating degradable artefacts. A project for analysis and exhibition of early medieval objects from the Byzantine village at Scorpo (Supersano, Italy). , 2013, , .		2
209	Analysis and Characterization of the Mechanical Structure for the I-Tracker of the Mu2e Experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2014, 248-250, 134-136.	0.5	2
210	Cure reaction of epoxy resins catalyzed by graphite-based nanofiller. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	2
211	Using Ultrasound Wave Propagation to Estimate the Dispersion of Nanostructures in Polymers with Complex Molecular Architectures. , 2015, , .		2
212	Epoxy Resin Catalyzed by Graphite-Based Nanofillers. <i>International Polymer Processing</i> , 2016, 31, 548-553.	0.3	2
213	Development and characterization of innovative carbon-based waste ashes/epoxy composites. <i>Materials Today: Proceedings</i> , 2021, 34, 133-139.	0.9	2
214	Stress relaxation in asymmetric bistable composites: Experiments and simulations. <i>Materials Today: Proceedings</i> , 2021, 34, 10-15.	0.9	2
215	Simultaneous gravimetric and calorimetric analysis of chloroform sorption in nanoporous semicrystalline sPS. <i>Journal of Applied Polymer Science</i> , 2005, 96, 1675-1681.	1.3	1
216	Rotational molding of pultruded profiles reinforced polyethylene. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
217	Solubility and durability of cardanol derived plasticizers for soft PVC. AIP Conference Proceedings, 2015, , .	0.3	1
218	Graphene reinforced Chitosan-Cinnamaldehyde derivatives films: antifungal activity and mechanical properties. , 2015, , .		1
219	Nanofilled polyethylene terephthalate fibers for the production of hierarchical polymer based composites. , 2015, , .		1
220	Resin flow and void formation in an autoclave cure cycle. AIP Conference Proceedings, 2016, , .	0.3	1
221	Mechanical characterization of bistable laminates for very small aircraft morphing applications. , 2018, , .		1
222	Bulk Crystallization Kinetics of New TPI (Thermoplastic Poly Imide) by Differential Calorimetric Analysis. Materials Science Forum, 1996, 203, 25-30.	0.3	0
223	Nonsupercritical synthesis of microporous gels. Journal of Applied Polymer Science, 2008, 110, 2563-2568.	1.3	0
224	CLAY-NANOCOMPOSITES POLYURETHANE ADHESIVES : ANALYSIS OF THE RIGID AMORPHOUS FRACTION. AIP Conference Proceedings, 2008, , .	0.3	0
225	Preface to the special issue: Thermoplastic composite materials. Advances in Polymer Technology, 2010, 29, 69-69.	0.8	0
226	Analysis of ageing of amorphous thermoplastic polymers by PVT analysis. , 2012, , .		0
227	Rapid Prototyping of hydroxyapatite polymer based nanocomposites for bone tissue engineering. , 2015, , .		0
228	Mechanical behavior of fibers and films based on PP/Quartz composites. Polymer Composites, 2017, 38, 1631-1639.	2.3	0
229	Relaxation of residual stresses during curing of polymer matrix composites. AIP Conference Proceedings, 2018, , .	0.3	0