Marta Giamberini

List of Publications by Year
in descending order

108	2,374	172457	254184
papers	citations	29 h-index	43 g-index

113	113	113	1993
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Liquid crystalline epoxy based thermosetting polymers. Progress in Polymer Science, 1997, 22, 1607-1647.	24.7	126
2	A new enzyme immobilization procedure using copper alginate gel: Application to a fungal phenol oxidase. Enzyme and Microbial Technology, 1994, 16, 151-158.	3.2	93
3	Curing kinetics of liquid-crystalline epoxy resins. Liquid Crystals, 1993, 13, 571-584.	2.2	90
4	Extraction of biologically active compounds from propolis and concentration of extract by nanofiltration. Journal of Membrane Science, 2010, 348, 124-130.	8.2	81
5	Light-Responsive Polymer Micro- and Nano-Capsules. Polymers, 2017, 9, 8.	4.5	74
6	Current Perspectives of the Applications of Polyphenols and Flavonoids in Cancer Therapy. Molecules, 2020, 25, 3342.	3.8	71
7	Liquid Crystalline Epoxy Thermosets. Molecular Crystals and Liquid Crystals, 1995, 266, 9-22.	0.3	64
8	Concentration of biologically active compounds extracted from Sideritis ssp. L. by nanofiltration. Food and Bioproducts Processing, 2011, 89, 307-314.	3.6	64
9	Curing reactions of a liquid crystalline epoxy resin based on the diglycidyl ether of 4,4â€²-dihydroxy-Î±-methylstilbene. Macromolecular Chemistry and Physics, 1995, 196, 1577-1591.	2.2	59
10	Alginate-based hydrogels for cancer therapy and research. International Journal of Biological Macromolecules, 2021, 170, 424-436.	7.5	59
11	Encapsulation for Cancer Therapy. Molecules, 2020, 25, 1605.	3.8	56
12	Liquid-crystalline epoxy resins: a glycidyl-terminated benzaldehyde azine cured in the nematic phase. Macromolecular Chemistry and Physics, 1994, 195, 279-287.	2.2	52
13	Preparation of a new lightly cross-linked liquid crystalline polyamide by interfacial polymerization. Application to the obtainment of microcapsules with photo-triggered release. European Polymer Journal, 2009, 45, 1420-1432.	5.4	50
14	Epoxy+liquid crystalline epoxy coreacted networks: I. Synthesis and curing kinetics. Polymer, 2001, 42, 2067-2075.	3.8	49
15	Interfacial polymerization of an epoxy resin and carboxylic acids for the synthesis of microcapsules. Polymer International, 2008, 57, 995-1006.	3.1	48
16	Power of light â€“ Functional complexes based on azobenzene molecules. Coordination Chemistry Reviews, 2017, 351, 205-217.	18.8	46
17	Rigid rod networks: Liquid crystalline epoxy resins. Composite Structures, 1994, 27, 37-43.	5.8	45
18	Liquid crystalline epoxy resins containing binaphthyl group as rigid block with enhanced thermal stability. Macromolecular Chemistry and Physics, 1994, 195, 2307-2315.	2.2	45

#	Article	IF	Citations
19	Photo-responsive polymer nanocapsules. Polymer, 2015, 70, 222-230.	3.8	45
20	Light-Responsive Nanocapsule-Coated Polymer Films for Antimicrobial Active Packaging. Polymers, 2019, 11, 68.	4.5	42
21	Lightly crosslinked liquid crystalline epoxy resins: The effect of rigid-rod length and applied stress on the state of order of the cured thermoset. Macromolecular Chemistry and Physics, 1997, 198, 3185-3196.	2.2	38
22	Anisotropic thermosets from liquid-crystalline azomethynic epoxy resins and primary aromatic diamines. Journal of Polymer Science Part A, 2003, 41, 1-12.	2.3	37
23	Preparation and Characterization of Light-Sensitive Microcapsules Based on a Liquid Crystalline Polyester. Langmuir, 2013, 29, 1601-1608.	3.5	34
24	Curing of a rigid rod epoxy resin with an aliphatic diacid: an example of a lightly crosslinked liquid crystalline thermoset. Macromolecular Rapid Communications, 1995, 16, 97-105.	3.9	33
25	Modeling of Curing Reaction Kinetics in Liquid-Crystalline Epoxy Resins. Industrial & Engineering Chemistry Research, 1997, 36, 2976-2983.	3.7	32
26	The effect of prepolymer composition of aminoâ€hardened liquid crystalline epoxy resins on physical properties of cured thermoset. Macromolecular Symposia, 1999, 148, 197-209.	0.7	32
27	Liquid crystalline elastomers based on diglycidyl terminated rigid monomers and aliphatic acids. Part 1. Synthesis and characterization. Polymer, 2005, 46, 2105-2121.	3.8	32
28	Shape memory behavior of liquid-crystalline elastomer/graphene oxide nanocomposites. Composites Science and Technology, 2018, 159, 251-258.	7.8	32
29	Epoxy+liquid crystalline epoxy coreacted networks: II. Mechanical properties. Polymer, 2002, 43, 839-848.	3.8	31
30	Visible-Light Responsive Nanocapsules for Wavelength-Selective Release of Natural Active Agents. ACS Applied Nano Materials, 2019, 2, 4499-4506.	5.0	30
31	Essential oils as solvents and core materials for the preparation of photo-responsive polymer nanocapsules. Nano Research, 2018, 11, 2783-2795.	10.4	29
32	Limited proteolysis as a probe of conformational changes in aspartate aminotransferase from Sulfolobus solfataricus. FEBS Journal, 1992, 204, 1183-1189.	0.2	26
33	Liquid crystalline epoxy resins in polymer dispersed liquid crystal composites. , 1997, 44, 465-473.		25
34	Liquid crystalline vinyl ester resins for structural adhesives. Journal of Adhesion Science and Technology, 2002, 16, 15-32.	2.6	25
35	Liquid Crystalline Epoxy Resins. , 1994, , 69-85.		25
36	Viscoelasticity of main chain liquid crystalline elastomers. Polymer, 2006, 47, 4490-4496.	3.8	24

#	Article	IF	Citations
37	Light-Induced Switching of the Wettability of Novel Asymmetrical Poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (al 14821-14829.	3.5	24
38	Liquid crystalline elastomers based on diglycidyl terminated rigid monomers and aliphatic acids. Part 2. Mechanical characterization. Polymer, 2005, 46, 9113-9125.	3.8	23
39	Liquid-crystalline epoxy resins: curing of blends of mesogenic and non-mesogenic epoxy monomers. Journal of Materials Science Letters, 1994, 13, 126-128.	0.5	21
40	Composites based on carbon fibers and liquid crystalline epoxy resins, 1 Monomer synthesis and matrix curing. Macromolecular Chemistry and Physics, 2000, 201, 2631-2638.	2.2	19
41	Self-organized liquid-crystalline polyethers obtained by grafting tapered mesogenic groups onto poly(epichlorohydrin): Toward biomimetic ion channels 2. Journal of Polymer Science Part A, 2004, 42, 326-340.	2.3	19
42	Composites based on carbon fibers and liquid crystalline epoxy resins, 2 Dynamic-mechanical analysis and fracture toughness behavior. Macromolecular Chemistry and Physics, 2000, 201, 2639-2645.	2.2	18
43	Self-toughening liquid crystalline vinyl ester adhesives. Macromolecular Symposia, 2002, 180, 153-168.	0.7	18
44	Self-organized liquid-crystalline polyethers obtained by grafting tapered mesogenic groups onto poly(epichlorohydrin): Toward biomimetic ion channels. Journal of Polymer Science Part A, 2003, 41, 2918-2929.	2.3	18
45	Synthesis, characterization, and photoresponsive behavior of new azobenzeneâ€containing polyethers. Journal of Polymer Science Part A, 2009, 47, 5426-5436.	2.3	18
46	Flame retardant phosphorous-containing polymers obtained by chemically modifying poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	5.8	18
47	Technological solutions for encapsulation. ChemistrySelect, 2017, 2, .	1.5	17
48	Photo-triggered capsules based on lanthanide-doped upconverting nanoparticles for medical applications. Coordination Chemistry Reviews, 2019, 398, 213013.	18.8	17
49	New liquid crystalline columnar poly(epichlorohydrinâ€coâ€ethylene oxide) derivatives leading to biomimetic ion channels. Polymer Engineering and Science, 2013, 53, 159-167.	3.1	16
50	Permeation Behavior of Polysulfone Membranes Modified by Fully Organic Layer-by-Layer Assemblies. Industrial & Engineering Chemistry Research, 2013, 52, 16406-16413.	3.7	16
51	Stability and anti-proliferative properties of biologically active compounds extracted from Cistus L. after sterilization treatments. Scientific Reports, 2020, 10, 6521.	3.3	16
52	Anisotropic liquid crystalline epoxy thermoset. Liquid Crystals, 1996, 21, 317-325.	2.2	15
53	The importance of orientation in proton transport of a polymer film based on an oriented self-organized columnar liquid-crystalline polyether. Materials Science and Engineering C, 2012, 32, 105-111.	7.3	15
54	Liquid crystalline polyamines containing side dendrons: Toward the building of ion channels based on polyamines. Polymer, 2013, 54, 5133-5140.	3.8	14

#	Article	IF	Citations
55	Columnar liquid crystalline polyglycidol derivatives: A novel alternative for proton-conducting membranes. Polymer, 2015, 66, 100-109.	3.8	13
56	Photoâ€Triggered Microcapsules. Macromolecular Symposia, 2016, 360, 192-198.	0.7	13
57	Liquid crystalline polymeric wires for selective proton transport, part 1: Wires preparation. Polymer, 2016, 92, 50-57.	3.8	13
58	Mimicking nature: Biomimetic ionic channels. Journal of Membrane Science, 2016, 509, 10-18.	8.2	13
59	Hybrid organicâ€“inorganic UV-cured films containing liquid-crystalline units. Thin Solid Films, 2013, 548, 150-156.	1.8	12
60	Concentration and Fractionation of Polyphenols by Membrane Operations. Current Pharmaceutical Design, 2017, 23, 231-241.	1.9	12
61	Water sorption in a novel liquid crystalline epoxy resin. Polymer Engineering and Science, 1995, 35, 137-143.	3.1	11
62	Effect of phosphorous-containing modified poly(vinyl alcohol) on the mechanical and flame retardant properties of polypropylene. EXPRESS Polymer Letters, 2015, 9, 330-343.	2.1	11
63	Liquid crystalline polymeric wires for selective proton transport, part 2: Ion transport in solid-state. Polymer, 2016, 92, 58-65.	3.8	11
64	Squeezing release mechanism of encapsulated compounds from photo-sensitive microcapsules. Applied Surface Science, 2019, 472, 143-149.	6.1	11
65	Advances in the design of self-supported ion-conducting membranes â€“ New family of columnar liquid crystalline polyamines. Part 2: Ion transport characterisation and comparison to hybrid membranes. Polymer, 2016, 105, 234-242.	3.8	10
66	A novel approach to the tailoring of polymers for advanced composites and optical applications, involving the synthesis of liquid crystalline epoxy resins. Polymer Engineering and Science, 1999, 39, 534-542.	3.1	9
67	Lightly crosslinked, mesomorphic networks obtained through the reaction of dimeric, liquid-crystalline epoxyâ€“imine monomers and heptanedioic acid. Journal of Polymer Science Part A, 2006, 44, 6270-6286.	2.3	9
68	Advances in the design of self-supported ion-conducting membranes-new family of columnar liquid crystalline polyamines. Part 1: Copolymer synthesis and membrane preparation. Polymer, 2016, 105, 298-309.	3.8	9
69	Modeling of Azobenzene-Based Compounds. ChemistrySelect, 2017, 2, .	1.5	9
70	In Situ Raman Spectroscopy as a Tool for Structural Insight into Cation Non-Ionomeric Polymer Interactions during Ion Transport. Polymers, 2018, 10, 416.	4.5	9
71	Contrasting Photo-Switching Rates in Azobenzene Derivatives: How the Nature of the Substituent Plays a Role. Polymers, 2020, 12, 1019.	4.5	9
72	Vinyl-terminated side-chain liquid-crystalline polyethers containing mesogenic benzylideneaniline moieties. Journal of Polymer Science Part A, 2006, 44, 1877-1889.	2.3	8

#	Article	IF	Citations
73	The effect of chain packing on the thermal and dynamic mechanical behaviour of liquidâ€crystalline epoxy thermosets. Polymer International, 2010, 59, 1415-1421.	3.1	7
74	Polymer Blends for Improved CO2 Capture Membranes. Polymers, 2019, 11, 1662.	4.5	7
75	Synthesis and synthetic mechanism of Polylactic acid. Physical Sciences Reviews, 2020, .	0.8	7
76	Liquid crystalline epoxy resin with improved toughness. Journal of Adhesion Science and Technology, 2001, 15, 1635-1654.	2.6	6
77	Molecular Design of Microcapsule Shells for Visible Light-Triggered Release. Polymers, 2019, 11, 904.	4.5	6
78	Can liquid crystalline polymers find application in the field of protective coatings?. Anti-Corrosion Methods and Materials, 1999, 46, 95-99.	1.5	5
79	Freezing the orientation of a nematic stretched elastomer by photocrosslinking. Polymer, 2009, 50, 1948-1956.	3.8	5
80	6. Technological solutions for encapsulation. , 2017, , 171-202.		5
81	Thermal and Mechanical Characterization of EMA-TEGDMA Mixtures for Cosmetic Applications. Polymers, 2018, 10, 256.	4.5	5
82	Effect of Dendritic Side Groups on the Mobility of Modified Poly(epichlorohydrin) Copolymers. Polymers, 2021, 13, 1961.	4.5	5
83	Curing Reaction Kinetics of Liquid Crystalline Resin Based on 6,6â€²-Bis (2,3-Epoxypropoxy)-2,2â€² Binaphthyl. Molecular Crystals and Liquid Crystals, 1999, 336, 183-198.	0.3	4
84	Poly(epichlorohydrin) modified with 3,4,5-tris(dodecyloxy)benzoate: The structure and dynamics of the aliphatic side chains in the columnar mesophase. Journal of Polymer Science Part A, 2005, 43, 2099-2111.	2.3	4
85	Acrylic microspheres as drugâ€delivery systems: synthesis through in situ microemulsion photoinduced polymerization and characterization. Polymer International, 2013, 62, 304-309.	3.1	4
86	Photo-triggered release in polyamide nanosized capsules. , 2014, , .		4
87	Smart microcapsules for precise delivery systems. Functional Materials Letters, 2018, 11, 1850041.	1.2	4
88	Ortho-substituted azobenzene: shedding light on new benefits. Pure and Applied Chemistry, 2019, 91, 1533-1546.	1.9	4
89	Molecular Mobility in Oriented and Unoriented Membranes Based on Poly[2-(Aziridin-1-yl)ethanol]. Polymers, 2021, 13, 1060.	4.5	4
90	Membranes for Cation Transport Based on Dendronized Poly(epichlorohydrin-co-ethylene oxide). Part 1: The Effect of Dendron Amount and Column Orientation on Copolymer Mobility. Polymers, 2021, 13, 3532.	4.5	4

#	Article	IF	Citations
91	Synthesis and characterization of a new family of photoactive liquid crystalline polyesters based on Î±â€methylstilbene. Polymer International, 2014, 63, 315-326.	3.1	3
92	Preparation of a versatile precursor of novel functionalized polymers: the influence of polymerization conditions on the structure of poly [1-(2-hydroxyethyl)aziridine]. Polymer Engineering and Science, 2014, 54, 579-591.	3.1	3
93	Preparation and Characterization of UV-Curable Acrylic Membranes Embedding Natural Antioxidants. Polymers, 2020, 12, 358.	4.5	3
94	Synthesis and characterization of dendritic compounds containing nitrogen: monomer precursors in the construction of biomimetic membranes. Scientific Reports, 2022, 12, 1725.	3.3	3
95	Influence of the side group shape on the arrangement of liquid-crystalline polyethers obtained by ring opening polymerization of oxiranes. Journal of Polymer Science Part A, 2006, 44, 1722-1733.	2.3	2
96	Synthesis and characterisation of a monotropic dendritic liquid crystalline aziridine monomer. Liquid Crystals, 2014, 41, 153-162.	2.2	2
97	<title>Crosslinked anisotropic network based on liquid crystalline precursors as a liquid-crystal-aligning layer</title>. , 1997, , .		1
98	An atomistic insight into lightâ€sensitive polymers with methylstilbene building blocks. Polymer International, 2015, 64, 935-941.	3.1	1
99	Functionalized fluorescent terephthalate monomers and their attempted polyester formation. Organic and Biomolecular Chemistry, 2020, 18, 8735-8745.	2.8	1
100	Medical Plaster Enhancement by Coating with Cistus L. Extracts within a Chitosan Matrix: From Natural Complexity to Health Care Simplicity. Materials, 2021, 14, 582.	2.9	1
101	Membranes for Cation Transport Based on Dendronized Poly(Epichlorohydrin-Co-Ethylene Oxide). Part 2: Membrane Characterization and Transport Properties. Polymers, 2021, 13, 3915.	4.5	1
102	Dielectric Properties in Oriented and Unoriented Membranes Based on Poly(Epichlorohydrin-co-Ethylene Oxide) Copolymers: Part III. Polymers, 2022, 14, 1369.	4.5	1
103	Role of Curing Agent on the Nature of the Mesophase and the Properties of Mesogenic Epoxy Resins. ACS Symposium Series, 1996, , 389-404.	0.5	0
104	Highly Uniform Oriented Liquid Crystalline Thermosets. Materials Research Society Symposia Proceedings, 1996, 425, 161.	0.1	0
105	CAPE tools in biotechnology: why, when, what, who, which ones and where?. Computer Aided Chemical Engineering, 2008, , 1181-1186.	0.5	0
106	1. Photosensitive microcapsules. , 2015, , 1-18.		0
107	2. Smart microcapsules based on photo-isomerizable moieties. , 2015, , 19-36.		0
108	2. Light-sensitive microcapsules based on modified and un-modified azobenzene moieties. , 2020, , 23-48.		0