

Majda Zigon

List of Publications by Year in descending order

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102
papers

2,534
citations

201674

27
h-index

223800

46
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102
all docs

102
docs citations

102
times ranked

2965
citing authors

#	ARTICLE	IF	CITATIONS
1	Aliphatic hyperbranched polyesters based on 2,2-bis(methylol)propionic acidâ€”Determination of structure, solution and bulk properties. Progress in Polymer Science, 2011, 36, 53-88.	24.7	168
2	Characterization of a Commercial Hyperbranched Aliphatic Polyester Based on 2,2-Bis(methylol)propionic Acid. Macromolecules, 2002, 35, 9913-9925.	4.8	127
3	Comparison of the properties of clay polymer nanocomposites prepared by montmorillonite modified by silane and by quaternary ammonium salts. Applied Clay Science, 2013, 85, 109-115.	5.2	111
4	Cuprous Oxide Nanowires Prepared by an Additive-Free Polyol Process. Crystal Growth and Design, 2007, 7, 453-458.	3.0	105
5	Characterization of commercial aliphatic hyperbranched polyesters. Polymer, 2006, 47, 166-175.	3.8	102
6	Polyol-Mediated Synthesis of Zinc Oxide Nanorods and Nanocomposites with Poly(methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td	2.7	83
7	PMMA/MMT nanocomposites prepared by one-step in situ intercalative solution polymerization. European Polymer Journal, 2007, 43, 4891-4897.	5.4	77
8	Evaluation of size-exclusion chromatography and viscometry for the determination of molecular masses of oxidised cellulose. Journal of Chromatography A, 1998, 805, 93-99.	3.7	72
9	The synthesis of zinc oxide nanoparticles from zinc acetylacetonate hydrate and 1-butanol or isobutanol. Journal of Colloid and Interface Science, 2010, 346, 317-323.	9.4	67
10	Methacrylate monoliths prepared from various hydrophobic and hydrophilic monomers - Structural and chromatographic characteristics. Journal of Separation Science, 2003, 26, 322-330.	2.5	64
11	Macroporous ZnO Foams by High Internal Phase Emulsion Technique: Synthesis and Catalytic Activity. ACS Applied Materials & Interfaces, 2014, 6, 19075-19081.	8.0	54
12	Poly(methyl methacrylate) composites prepared by in situ polymerization using organophilic nano-to-submicrometer zinc oxide particles. European Polymer Journal, 2010, 46, 1216-1224.	5.4	53
13	Polyol mediated nano size zinc oxide and nanocomposites with poly(methyl methacrylate). EXPRESS Polymer Letters, 2011, 5, 604-619.	2.1	53
14	Synthesis and characterization of biodegradable aliphatic copolyesters with poly(ethylene oxide) soft segments. European Polymer Journal, 2008, 44, 904-917.	5.4	50
15	Polyaniline synthesis with iron(III) chlorideâ€”hydrogen peroxide catalyst system: Reaction course and polymer structure study. Synthetic Metals, 2011, 161, 1217-1225.	3.9	48
16	Solution properties of carboxylated polyurethanes and related ionomers in polar solvents (DMF and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.8	46
17	Impact of Inorganic Hydroxides on ZnO Nanoparticle Formation and Morphology. Crystal Growth and Design, 2014, 14, 4262-4269.	3.0	44
18	Structure-to-Properties Relationship of Aliphatic Hyperbranched Polyesters. Macromolecular Chemistry and Physics, 2007, 208, 1379-1387.	2.2	42

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19	Molar mass distribution of a commercial aliphatic hyperbranched polyester based on 2,2-bis(methylol)propionic acid. <i>Journal of Chromatography A</i> , 2004, 1034, 77-83.	3.7	40
20	Polyaniline nanostructures prepared in acidic aqueous solutions of ionic liquids acting as soft templates. <i>European Polymer Journal</i> , 2013, 49, 1381-1390.	5.4	39
21	Interplay between nematic ordering and thermomechanical response in a side-chain liquid single crystal elastomer containing pendant azomesogen units. <i>Polymer</i> , 2009, 50, 4837-4844.	3.8	38
22	A study of rheological and molecular weight properties of recycled polysaccharides used as thickeners in textile printing. <i>Carbohydrate Polymers</i> , 2009, 76, 8-16.	10.2	36
23	Molecular dynamics of linear and hyperbranched polyurethanes and their blends. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 2753-2758.	3.1	34
24	Effect of Annealing on the Rheological and Thermal Properties of Aliphatic Hyperbranched Polyester Based on 2,2-Bis(methylol)propionic Acid. <i>Macromolecules</i> , 2005, 38, 3933-3942.	4.8	33
25	Copper(I) oxide and metallic copper particles formed in 1,2-propane diol. <i>Journal of the European Ceramic Society</i> , 2007, 27, 987-991.	5.7	31
26	Polymerization of phenylacetylene with $WOCl_4$ /tetraphenyltin catalyst in benzene/1,4-dioxane. Synthesis of high-molecular-weight poly(phenylacetylene). <i>Macromolecular Chemistry and Physics</i> , 1995, 196, 1705-1712.	2.2	29
27	Motional heterogeneity and phase separation of functionalized polyester polyurethanes. <i>European Polymer Journal</i> , 2004, 40, 1857-1866.	5.4	28
28	Motional heterogeneity and phase separation of semi-interpenetrating networks and mixtures based on functionalised polyurethane and polymethacrylate prepolymers. <i>Polymer</i> , 2005, 46, 89-99.	3.8	27
29	Sulfonated polyaniline. <i>Synthetic Metals</i> , 1999, 101, 717-718.	3.9	26
30	Chemical copolymerization of aniline derivatives: Preparation of fully substituted PANI. <i>Synthetic Metals</i> , 2001, 119, 145-146.	3.9	25
31	Basic zinc carbonate as a precursor in the solvothermal synthesis of nano-zinc oxide. <i>Materials and Design</i> , 2015, 86, 347-353.	7.0	25
32	Ionic liquid-induced formation of polyaniline nanostructures during the chemical polymerization of aniline in an acidic aqueous medium. <i>Synthetic Metals</i> , 2010, 160, 1761-1766.	3.9	24
33	Synthesis and NMR characterization of a novel polyaniline derivative. <i>Polymer Bulletin</i> , 2000, 45, 61-68.	3.3	23
34	Modification of montmorillonite by quaternary polyesters. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 3326-3331.	3.1	23
35	Micropatterning of light-sensitive liquid-crystal elastomers. <i>Physical Review E</i> , 2009, 80, 050701.	2.1	23
36	Supramolecular liquid-crystalline polyurethane. <i>Macromolecular Rapid Communications</i> , 2000, 21, 53-56.	3.9	22

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37	Interfacial effects in glass fibre composites as a function of unsaturated polyester resin composition. Composites Part A: Applied Science and Manufacturing, 2001, 32, 511-516.	7.6	21
38	¹ H NMR study of the kinetics of substituted aniline polymerization. I. Homopolymerization of 2-methoxyaniline. Journal of Polymer Science Part A, 2001, 39, 2471-2481.	2.3	21
39	Enhanced room temperature excitonic luminescence in ZnO/polymethyl methacrylate nanocomposites prepared by bulk polymerization. Journal of Applied Physics, 2010, 108, 023517.	2.5	21
40	HIGH PERFORMANCE REVERSED-PHASE LIQUID CHROMATOGRAPHY USING NOVEL CIM RP-SDVB MONOLITHIC SUPPORTS. Journal of Liquid Chromatography and Related Technologies, 2001, 24, 2429-2443.	1.0	20
41	The influence of a quaternary ammonium salt and MMT on the in situ intercalative polymerization of PMMA. European Polymer Journal, 2012, 48, 1555-1560.	5.4	20
42	The double role of p-toluenesulfonic acid in the formation of ZnO particles with different morphologies. CrystEngComm, 2010, 12, 1862.	2.6	19
43	Zinc-Containing Block Copolymer as a Precursor for the <i>in Situ</i> Formation of Nano ZnO and PMMA/ZnO Nanocomposites. Macromolecules, 2013, 46, 6942-6948.	4.8	19
44	Dilute solution behaviour of hexamethylene diisocyanate-based carboxylated polyurethanes and related ionomers in tetrahydrofuran. Polymer, 1999, 40, 2727-2735.	3.8	18
45	Liquid-Crystalline Complexes of Polyurethane Containing an Isonicotinamide Moiety with 4-Dodecyloxybenzoic Acid. Macromolecular Chemistry and Physics, 2002, 203, 439-447.	2.2	18
46	Motional heterogeneity of segmented polyurethane-polymethacrylate mixtures: an influence of functional groups concentration. Polymer, 2002, 43, 3891-3899.	3.8	18
47	Degradation of High Molecular Weight Polystyrenes During the SEC Separation Process, as Demonstrated by SEC Coupled with Lalls and by Static Light Scattering. Journal of Liquid Chromatography and Related Technologies, 1997, 20, 2155-2167.	1.0	16
48	Hydrogen-bonded polyurethane complexes based on 4-alkoxybenzoic acids as the low molar mass components. Polymer International, 2005, 54, 606-613.	3.1	16
49	Morphology and Particle Size of Di(ethylene glycol) Mediated Metallic Copper Nanoparticles. Journal of Nanoscience and Nanotechnology, 2008, 8, 3516-3525.	0.9	16
50	Modification of montmorillonite by cationic polyesters. Applied Clay Science, 2009, 43, 420-424.	5.2	16
51	Study of the reaction between urea and formaldehyde by dsc and ¹³ C NMR spectroscopy. Angewandte Makromolekulare Chemie, 1982, 102, 81-85.	0.2	15
52	¹ H NMR study of the kinetics of substituted aniline polymerization. II. Copolymerization of 2-methoxyaniline and 3-aminobenzenesulfonic acid. Journal of Polymer Science Part A, 2001, 39, 2482-2493.	2.3	15
53	Semi-interpenetrating polymer networks based on polyurethane and polymethacrylate functional prepolymers: Morphology and mechanical properties in dependence of the concentration of functional groups. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 115-123.	2.1	15
54	Hard segmented side chain liquid crystal polyurethanes with azobenzene mesogenic moieties. Polymer, 1999, 40, 6529-6538.	3.8	14

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55	Montmorillonite modified with liquid crystalline diol hydrochlorides: Preparation and characterization. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 1986-1991.	3.1	14
56	The effects of experimental parameters on the extent of intercalation of PMMA/MMT nanocomposites prepared in solution. <i>Journal of Applied Polymer Science</i> , 2009, 113, 1182-1187.	2.6	14
57	The formation of zinc oxide nanoparticles from zinc acetylacetonate hydrate in tert-butanol: A comparative mechanistic study with isomeric C4 alcohols as the media. <i>Materials Research Bulletin</i> , 2011, 46, 2497-2501.	5.2	14
58	Copolymers of 2-methoxyaniline with 2- and 3-aminobenzenesulfonic and 2- and 3-aminobenzoic acids: Relationships between the polymerization conditions, structure, spectroscopic characteristics and conductivity. <i>Synthetic Metals</i> , 2011, 161, 1845-1855.	3.9	13
59	Synthesis and characterization of resorcinol-cinnamaldehyde resins. <i>Angewandte Makromolekulare Chemie</i> , 1987, 148, 127-135.	0.2	12
60	Step-growth polymerization of guanamines with unsaturated aldehydes. <i>Polymer Bulletin</i> , 1989, 22, 155-161.	3.3	12
61	Characterization of oligomers from 1,4-butanediol and toluene diisocyanate. <i>Journal of Applied Polymer Science</i> , 1993, 47, 805-814.	2.6	11
62	Phase morphology of functionalized polyester polyurethanes. Effect of functional group concentration. <i>Polymer International</i> , 2006, 55, 285-291.	3.1	11
63	Montmorillonite-phenolic resin nanocomposites prepared by one-step in-situ intercalative polymerisation. <i>Applied Clay Science</i> , 2014, 101, 484-489.	5.2	11
64	Properties of epoxy and unsaturated polyester nanocomposites with polycation modified montmorillonites. <i>Applied Clay Science</i> , 2015, 109-110, 143-150.	5.2	11
65	Spin probe study of semi-interpenetrating polymer networks based on polyurethane and polymethacrylate functional prepolymers. <i>Polymer International</i> , 2003, 52, 1346-1350.	3.1	10
66	Side-chain polyesters and polyester hydrochlorides based on terephthalic acid. <i>Polymer</i> , 2003, 44, 6187-6193.	3.8	10
67	Oxidation state and proton doping level in copolymers of 2-aminobenzoic acid and 2-methoxyaniline. <i>Macromolecular Symposia</i> , 2004, 212, 307-314.	0.7	10
68	Homo and Block Copolymers of Poly(<i>l</i> -benzyl-L-aspartate)s and Poly(<i>l</i> -benzyl-L-glutamate)s of Different Architectures. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 550-562.	2.2	10
69	Utility of Chromatographic and Spectroscopic Techniques for a Detailed Characterization of Poly(styrene- <i>b</i> -isoprene) Miktoarm Star Copolymers with Complex Architecture. <i>Macromolecules</i> , 2012, 45, 7574-7582.	4.8	10
70	The curing kinetics of brominated epoxy resins. <i>Thermochimica Acta</i> , 1991, 178, 127-134.	2.7	9
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73	Synthesis and characterization of phenolic and amino resins based on $\hat{1}\pm$, $\hat{1}^2$ -unsaturated aldehydes. Journal of Applied Polymer Science, 1992, 45, 597-606.	2.6	8
74	Characterization of Polyether-Polyurethanes by Sec Coupled with Viscometry and Lalls. Journal of Liquid Chromatography and Related Technologies, 1993, 16, 3813-3825.	1.0	8
75	ESR-spin labelling study of semi-interpenetrating networks and polymer mixtures based on functionalized polyurethanes and polymethacrylates. European Polymer Journal, 2005, 41, 1874-1882.	5.4	8
76	Effect of cations on polyaniline morphology. Chemical Papers, 2013, 67, .	2.2	8
77	Unperturbed Dimensions of Atactic Poly(phenylacetylene). Collection of Czechoslovak Chemical Communications, 2005, 70, 1787-1798.	1.0	8
78	Thermotropic liquid crystalline $\hat{1}\pm$ -[bis(2-hydroxyethyl)amino] $\hat{1}\%$ -(4 \hat{a} \hat{e} $\hat{2}$ -methoxybiphenyl-4-oxy)alkane hydrochlorides. Liquid Crystals, 2002, 29, 1217-1222.	2.2	7
79	Poly(zinc dimethacrylate) as a precursor in the low-temperature formation of ZnO nanoparticles. Journal of Colloid and Interface Science, 2011, 360, 370-376.	9.4	7
80	Separation of Poly(styrene-block-t-butyl methacrylate) Copolymers by Various Liquid Chromatography Techniques. Scientific World Journal, The, 2012, 2012, 1-9.	2.1	6
81	Influence of phosphorous \hat{a} \hat{e} based flame retardants on the mechanical and thermal properties of recycled PC/ABS copolymer blends. Journal of Applied Polymer Science, 2020, 137, 48377.	2.6	6
82	Characterization of blocked isocyanates. Journal of Molecular Structure, 1992, 267, 129-134.	3.6	5
83	Study of the reaction between 1,5-naphtalene diisocyanate and polycaprolactone in different solvents. Journal of Polymer Science Part A, 1995, 33, 1573-1580.	2.3	5
84	An antibacterial macroporous polyurethane hybrid material with a high content of zinc ions: A template to uniform ZnO nanoparticles. Materials Research Bulletin, 2013, 48, 1428-1434.	5.2	5
85	The Synthesis and Characterization of Resorcinol-Crotonaldehyde Resins. Journal of Macromolecular Science Part A, Chemistry, 1988, 25, 935-942.	0.3	4
86	Study of deblocking and crosslinking reactions of a blocked isocyanurate cationomer. Polymer Bulletin, 1993, 31, 75-82.	3.3	4
87	Characterization and application of crosslinkers for polyurethane aqueous systems: Isopropylidene malonate-blocked isocyanurate. Journal of Applied Polymer Science, 1994, 54, 2075-2081.	2.6	4
88	Side-chain polyesters derived from adipoyl chloride and $\hat{1}\pm$ -(bis(2-hydroxyethyl)amino)- $\hat{1}\%$ -(4'-) Tj ETQq0 0 0 rgBT /Ovgrlock 10 Tf 50 142	3.3	4
89	Elution behavior of poly(lactide-co-succinimide) copolymers studied by SEC-MALS. Analytical and Bioanalytical Chemistry, 2009, 393, 1815-1823.	3.7	4
90	Synthesis and characterization of resins from 4-ethylphenol and cinnamaldehyde. Angewandte Makromolekulare Chemie, 1988, 160, 155-162.	0.2	3

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91	The Influence of Treatment Conditions on the Quantity and Composition of Oligomers Extracted from Polyester Fabric. <i>Textile Research Journal</i> , 2002, 72, 447-453.	2.2	3
92	The influence of side-chain and main-chain spacer lengths on the thermal and structural properties of diethanolamine based side-chain polyesters. <i>Polymer Bulletin</i> , 2004, 53, 35-42.	3.3	3
93	The Influence of Stabilization under Various Conditions and Subsequent Treatment of Polyester Fabric on the Quantity and Composition of Extracted Oligomers. <i>Textile Research Journal</i> , 2006, 76, 322-327.	2.2	3
94	STUDY OF POLYSTYRENE-BLOCK-POLY(METHYLMETHACRYLATE) MICELLES BY SEC/MALS. DETERMINATION OF MOLECULAR WEIGHTS AND SIZE DISTRIBUTION. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1999, 22, 2109-2124.	1.0	2
95	Aromatic side-chain liquid-crystalline polyurethanes with azobenzene mesogenic units. <i>Polymer Bulletin</i> , 2002, 48, 151-158.	3.3	2
96	A kinetic study of the copolymerization of substituted anilines by ¹ H NMR. <i>Polymer International</i> , 2002, 51, 1072-1078.	3.1	2
97	Side chain liquid crystalline diethanolamine-based polyesters with methoxy and/or nitroazobenzene mesogenic moieties. <i>Liquid Crystals</i> , 2006, 33, 883-890.	2.2	2
98	Determination of the Molar-Mass Averages of Random Poly(aspartate-co-lactide) Copolymers by Tuning the Ionic Strength of the Solvent. <i>Chromatographia</i> , 2012, 75, 205-212.	1.3	2
99	NMR investigation of non-brominated and brominated epoxy ester prepolymers. <i>Journal of Molecular Structure</i> , 1992, 267, 123-128.	3.6	1
100	Ionic polymers with tunable liquid-crystalline properties. <i>Polymer International</i> , 2012, 61, 451-457.	3.1	1
101	Mission and Role of National and International Associations in the Advancement and Promotion of Polymer Science, Technology and Materials. <i>Kobunshi</i> , 2008, 57, 18-19.	0.0	0
102	TIME-DEPENDENT MECHANICAL BEHAVIOR OF PA6 NANOCOMPOSITES WITH TITANATE NANORIBBONS. AIP Conference Proceedings, 2008, , .	0.4	0