

Libor Matejka

List of Publications by Year in descending order

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39
papers

1,759
citations

279798

23
h-index

330143

37
g-index

40
all docs

40
docs citations

40
times ranked

1633
citing authors

#	ARTICLE	IF	CITATIONS
1	Epoxy Networks Reinforced with Polyhedral Oligomeric Silsesquioxanes (POSS). Structure and Morphology. <i>Macromolecules</i> , 2004, 37, 9449-9456.	4.8	198
2	Epoxy Networks Reinforced with Polyhedral Oligomeric Silsesquioxanes (POSS). Thermomechanical Properties. <i>Macromolecules</i> , 2004, 37, 9457-9464.	4.8	188
3	Formation and structure of the epoxy-silica hybrids. <i>Polymer</i> , 1999, 40, 171-181.	3.8	142
4	Formation of nanostructured epoxy networks containing polyhedral oligomeric silsesquioxane (POSS) blocks. <i>Polymer</i> , 2007, 48, 3041-3058.	3.8	94
5	Cage-like structure formation during sol-gel polymerization of glycidyoxypropyltrimethoxysilane. <i>Journal of Non-Crystalline Solids</i> , 2000, 270, 34-47.	3.1	89
6	Cyclization and Self-Organization in Polymerization of Trialkoxysilanes. <i>Macromolecules</i> , 2001, 34, 6904-6914.	4.8	88
7	Structure evolution in epoxy-silica hybrids: sol-gel process. <i>Journal of Non-Crystalline Solids</i> , 1998, 226, 114-121.	3.1	84
8	Rheology of epoxy networks near the gel point. <i>Polymer Bulletin</i> , 1991, 26, 109-116.	3.3	71
9	Effect of POSS on thermomechanical properties of epoxy-POSS nanocomposites. <i>European Polymer Journal</i> , 2012, 48, 260-274.	5.4	69
10	Modification of carbon nanotubes and its effect on properties of carbon nanotube/epoxy nanocomposites. <i>Polymer Composites</i> , 2009, 30, 1378-1387.	4.6	67
11	Block Copolymer Organic-Inorganic Networks. Formation and Structure Ordering. <i>Macromolecules</i> , 2003, 36, 7977-7985.	4.8	57
12	Amine Cured Epoxide Networks: Formation, Structure, and Properties. <i>Macromolecules</i> , 2000, 33, 3611-3619.	4.8	52
13	Polymerization of dicyclopentadiene: A new reaction injection molding system. <i>Journal of Applied Polymer Science</i> , 1985, 30, 2787-2803.	2.6	45
14	Epoxy-silica hybrids by nonaqueous sol-gel process. <i>Polymer</i> , 2013, 54, 6271-6282.	3.8	45
15	The multifunctional role of ionic liquids in the formation of epoxy-silica nanocomposites. <i>Journal of Materials Chemistry</i> , 2011, 21, 13801.	6.7	44
16	Tunable reinforcement of epoxy-silica nanocomposites with ionic liquids. <i>Journal of Materials Chemistry</i> , 2012, 22, 9939.	6.7	36
17	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1985, 186, 2025-2036.	1.1	33
18	Recent Applications of Ionic Liquids in the Sol-Gel Process for Polymer-Silica Nanocomposites with Ionic Interfaces. <i>Colloids and Interfaces</i> , 2017, 1, 5.	2.1	33

#	ARTICLE	IF	CITATIONS
19	Preparation and characterization of hybrid organic-inorganic epoxide-based films and coatings prepared by the sol-gel process. <i>Journal of Applied Polymer Science</i> , 2004, 92, 937-950.	2.6	32
20	Polybutadiene-based polyurethanes with controlled properties: preparation and characterization. <i>Journal of Applied Polymer Science</i> , 2000, 77, 381-389.	2.6	31
21	Curing of epoxy resins with amines. <i>Polymer Bulletin</i> , 1985, 14, 309-315.	3.3	29
22	Mechanism and kinetics of curing of epoxides based on diglycidylamine with aromatic amines. 2. The reaction between diglycidylaniline and aniline. <i>Macromolecules</i> , 1989, 22, 2911-2917.	4.8	29
23	Block-copolymer organic-inorganic networks. Structure, morphology and thermomechanical properties. <i>Polymer</i> , 2004, 45, 3267-3276.	3.8	25
24	Preparation of Novel, Nanocomposite Stannoxane-Based Organic-Inorganic Epoxy Polymers containing ionic bonds. <i>Macromolecules</i> , 2012, 45, 221-237.	4.8	23
25	Self-assembly of POSS-containing block copolymers: Fixing the hierarchical structure in networks. <i>Polymer</i> , 2014, 55, 126-136.	3.8	22
26	Transesterification and Gelation of Polyhydroxy Esters Formed from Diepoxides and Dicarboxylic Acids. <i>Advances in Chemistry Series</i> , 1984, , 15-26.	0.6	15
27	Cyclization in amine-cured N,N-diglycidylaniline epoxy resins. <i>Polymer</i> , 1991, 32, 3190-3194.	3.8	15
28	Tremendous reinforcing, pore-stabilizing and response-accelerating effect of <i>in situ</i> generated nanosilica in thermoresponsive poly(<i>N</i> -isopropylacrylamide) cryogels. <i>Polymer International</i> , 2017, 66, 1510-1521.	3.1	15
29	Dynamic and static light scattering from critically branched polymer solutions. <i>Die Makromolekulare Chemie</i> , 1984, 185, 2543-2552.	1.1	14
30	Curing of epoxides. Reaction of dicyanodiamide with phenylglycidyl ether. <i>Angewandte Makromolekulare Chemie</i> , 1989, 172, 185-194.	0.2	13
31	Influence of the reaction mechanism on network formation in amine-cured N,N-diglycidylamine epoxy resins. <i>Polymer</i> , 1991, 32, 3195-3200.	3.8	13
32	Curing of epoxy systems at sub-glass transition temperature. <i>Journal of Applied Polymer Science</i> , 2006, 99, 3669-3676.	2.6	12
33	Model reactions of amine curing of glycidylamine epoxy resins: Homopolymerization of N-methylglycidylaniline. <i>Journal of Polymer Science Part A</i> , 1992, 30, 2109-2120.	2.3	10
34	High- T_g , heat resistant epoxy-silica hybrids with a low content of silica generated by nonaqueous sol-gel process. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	8
35	Organization in sol-gel polymerization of methacrylate co-oligomers containing trimethoxysilylpropyl methacrylate. <i>Polymer</i> , 2005, 46, 11232-11240.	3.8	4
36	Formation of Epoxy Networks, Including Reactive Liquid Elastomers. <i>Advances in Chemistry Series</i> , 1989, , 303-318.	0.6	3

#	ARTICLE	IF	CITATIONS
37	Epoxy-silica/silsesquioxane Polymer Nanocomposites. , 2009, , 1-84.		3
38	Polyhedral oligomeric silsesquioxane (POSS)-based epoxy nanocomposite involving a reversible Dielsâ€Alder-type network as a self-healing material. Journal of Adhesion Science and Technology, 0, , 1-22.	2.6	3
39	Fast Synthesis of Nanostructured Microspheres of a Bridged Silsesquioxane via Ultrasoundâ€Assisted Solâ€Gel Processing. Macromolecular Chemistry and Physics, 2009, 210, 172-178.	2.2	2