

Enrique M Valls

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58
papers

1,063
citations

19
h-index

30
g-index

58
ext. papers

1,130
ext. citations

3.8
avg, IF

3.64
L-index

#	Paper	IF	Citations
58	Properties of Networks Formed by End Linking of Poly(dimethylsiloxane). <i>Macromolecules</i> , 1979 , 12, 673-679	5.5	103
57	Calculation of molecular parameters for stepwise polyfunctional polymerization. <i>Polymer Engineering and Science</i> , 1979 , 19, 272-283	2.3	96
56	Thermal and rheological properties of a liquid-crystalline polyurethane. <i>Macromolecules</i> , 1989 , 22, 1467-1473	4.73	76
55	Structure and Viscosity of Poly(dimethylsiloxanes) with Random Branches. <i>Macromolecules</i> , 1979 , 12, 521-526	5.5	74
54	Influence of pendant chains on the loss modulus of model networks. <i>Macromolecules</i> , 1984 , 17, 360-365	5.5	52
53	Influence of Pendant Chains on Mechanical Properties of Model Poly(dimethylsiloxane) Networks. 2. Viscoelastic Properties. <i>Macromolecules</i> , 1996 , 29, 4081-4089	5.5	49
52	Rheological study of linear high density polyethylenes modified with organic peroxide. <i>Polymer</i> , 2002 , 43, 2711-2720	3.9	40
51	Rheological characterization of molten ethylene/olefin copolymers synthesized with Et[Ind] ₂ ZrCl ₂ /MAO catalyst. <i>Polymer</i> , 2001 , 42, 9269-9279	3.9	33
50	Lifshitz-Safran coarsening dynamics in a 2D hexagonal system. <i>Physical Review Letters</i> , 2006 , 97, 188302	7.4	30
49	Influence of Pendant Chains on Mechanical Properties of Model Poly(dimethylsiloxane) Networks. 1. Analysis of the Molecular Structure of the Network. <i>Macromolecules</i> , 1996 , 29, 4072-4080	5.5	30
48	Mathematical model for high-pressure tubular reactor for ethylene polymerization. <i>Industrial & Engineering Chemistry Research</i> , 1988 , 27, 784-790	3.9	28
47	Modelling molecular weight changes induced in polydimethylsiloxane by gamma and electron beam irradiation. <i>European Polymer Journal</i> , 2008 , 44, 1548-1555	5.2	24
46	Viscoelastic properties of networks with low concentration of pendant chains. <i>Polymer</i> , 2004 , 45, 5923-5931	5.31	23
45	An improved kinetic model for the peroxide initiated modification of polyethylene. <i>Polymer Engineering and Science</i> , 1999 , 39, 2085-2095	2.3	21
44	Bulk hydrosilylation reaction of poly(dimethylsiloxane) chains catalyzed by a platinum salt: Effect of the initial concentration of reactive groups on the final extent of reaction. <i>Journal of Polymer Science Part A</i> , 2003 , 41, 1099-1106	2.5	20
43	Controlled synthesis of poly(dimethylsiloxane) homopolymers using high-vacuum anionic polymerization techniques. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 4774-4783	2.5	19
42	Transiently Trapped Entanglements in Model Polymer Networks. <i>Macromolecules</i> , 2009 , 42, 4674-4680	5.5	19

41	Arm retraction potential of branched polymers in the absence of dynamic dilution. <i>Physical Review Letters</i> , 2005 , 95, 166002	7.4	19
40	Validity of some approximations used to model intramolecular reaction in irreversible polymerization. <i>Macromolecules</i> , 1990 , 23, 580-589	5.5	19
39	Rheological and structural details of biocidal iPP-TiO ₂ nanocomposites. <i>European Polymer Journal</i> , 2012 , 48, 586-596	5.2	18
38	Gamma polymorph and branching formation as inductors of resistance to electron beam irradiation in metallocene isotactic polypropylene. <i>Polymer Degradation and Stability</i> , 2010 , 95, 462-469	4.7	18
37	Synthesis and morphology of model PS-b-PDMS copolymers. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 3119-3127	2.5	18
36	Synthesis and Characterization of Monodisperse μ -Divinylpolydimethylsiloxane and ϵ -Vinylpolydimethylsiloxane. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1992 , 29, 391-400	2.2	17
35	Structure of partially hydrogenated polybutadienes. <i>Polymer</i> , 1998 , 39, 5573-5577	3.9	16
34	Use of the successive self-nucleation and annealing technique to characterize ⁶⁰ Co gamma irradiated HDPEs. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 103, 669-678	4.1	14
33	Calculation of average properties of the pendant chains in a network. <i>Macromolecules</i> , 1982 , 15, 1293-1300	3.9	14
32	Molecular weight changes induced in an anionic polydimethylsiloxane by gamma irradiation in vacuum. <i>Radiation Physics and Chemistry</i> , 2010 , 79, 1137-1143	2.5	11
31	Mathematical Modeling of the Reactive Modification of High Density Polyethylene. Effect of Vinyl Content. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 7561-7570	3.9	10
30	Tensile mechanical behavior of linear high-density polyethylenes modified with organic peroxide. <i>Polymer Engineering and Science</i> , 2003 , 43, 1624-1633	2.3	10
29	Chemical modification of styrene-butadiene-styrene (SBS) rubber by reactive grafting with maleic anhydride. <i>Journal of Adhesion Science and Technology</i> , 2003 , 17, 1713-1726	2	10
28	Modification of model ethylene-butene copolymers using an organic peroxide. <i>Polymer</i> , 2005 , 46, 725-733	3.9	10
27	Preparation and characterization of thermotropic liquid crystal copolyesters containing m-hydroxybenzoic acid units. <i>Polymer</i> , 1996 , 37, 4357-4363	3.9	10
26	Synthesis and characterization of model polybutadiene-1,4-b-polydimethylsiloxane-b-polybutadiene-1,4 copolymers. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 2726-2733	2.5	9
25	Double Quantum NMR Applied to Polymer Networks with Low Concentration of Pendant Chains. <i>Macromolecules</i> , 2006 , 39, 4788-4792	5.5	9
24	The effect of oxygen on the irradiation process of ethylene-butene copolymer. <i>Polymer Degradation and Stability</i> , 2012 , 97, 1485-1494	4.7	8

23	The role of unsaturations in the Gamma irradiation of crosslinkable polymers. <i>Radiation Physics and Chemistry</i> , 2015 , 115, 119-126	2.5	7
22	Effect of thermal fluctuations on the coarsening dynamics of 2D hexagonal system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 386, 648-654	3.3	7
21	Synthesis and physicochemical characterization of a well-defined poly(butadiene 1,3)-block-poly(dimethylsiloxane) copolymer. <i>Polymer</i> , 2008 , 49, 5191-5194	3.9	7
20	Melt grafting of N-carbamyl maleamic acid onto linear low-density polyethylene. <i>Journal of Polymer Science Part A</i> , 2002 , 40, 3950-3958	2.5	7
19	Dynamic response of transiently trapped entanglements in polymer networks. <i>Polymer</i> , 2014 , 55, 1061-1069	3.9	6
18	Viscoelastic response of linear defects trapped in polymer networks. <i>European Polymer Journal</i> , 2015 , 64, 1-9	5.2	6
17	Improvement in abrasive wear resistance of metallocenic polypropylenes by adding siloxane based polymers. <i>Materials Chemistry and Physics</i> , 2017 , 188, 100-108	4.4	5
16	Phase behavior of model poly(butadiene 1,3)-block-(dimethylsiloxane) copolymers. <i>Polymer</i> , 2015 , 59, 180-186	3.9	5
15	Effect of the vinyl concentration on the structural and rheological characteristics of peroxide-modified high-density polyethylenes. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 1942-1951	2.9	5
14	Synthesis and rheological characterization of linear and star-shaped polydimethylsiloxanes. <i>Macromolecular Symposia</i> , 2001 , 168, 43-54	0.8	5
13	Variation of Ultimate Properties in Extruded iPP-Mesoporous Silica Nanocomposites by Effect of iPP Confinement within the Mesostructures. <i>Polymers</i> , 2020 , 12,	4.5	5
12	Electromagnetic interference shielding response and rheological behavior of lightweight nanocomposites based on isotactic polypropylene and Al nanoparticles. <i>Polymer Testing</i> , 2018 , 72, 263-270	4.5	5
11	Anionic Ring Opening Polymerization of ϵ -Caprolactone Initiated by Lithium Silanolates. <i>Australian Journal of Chemistry</i> , 2017 , 70, 106	1.2	3
10	Interfacial agent effect on rheological response and crystallite characteristics in germicidal polypropylene/titanium dioxide nanocomposites. <i>Polymer International</i> , 2012 , 61, 1655-1665	3.3	3
9	Branching and rheological behavior after electron irradiation in metallocene ethylene-co-norbornene copolymers. <i>Polymer Testing</i> , 2011 , 30, 35-42	4.5	2
8	Effect of intramolecular reaction on the properties of polybutadiene-silane rubbers. <i>Polymer</i> , 1998 , 39, 4037-4045	3.9	2
7	Effect of iPP molecular weight on its confinement within mesoporous SBA-15 silica in extruded iPP/SBA-15 nanocomposites. <i>Microporous and Mesoporous Materials</i> , 2020 , 294, 109945	5.3	2
6	Lithium naphthalenides in non-polar or in low-polarity media: some insights regarding their use as initiators in anionic polymerizations. <i>Polymer Bulletin</i> , 2017 , 74, 307-323	2.4	1

- 5 Morphological Raman analysis of short chain branched ethylene and propylene metallocenic copolymers. *Polymer Testing*, **2018**, 67, 450-456 4.5 1
- 4 Gamma-irradiated metallocenic polyethylene and ethylene-1-hexene copolymers. *Journal of Applied Polymer Science*, **2010**, 117, NA-NA 2.9 1
- 3 Characterization of Metallocene Epdm Terpolymers with High Diene and Propylene Content Crosslinked by Dicumyl Peroxide and Radiation. *Macromolecular Chemistry and Physics*, **2004**, 205, 2080-2088 2.6 1
- 2 Novel synthesis of cyclic methylvinylsiloxanes by the reaction of methylvinyl diethoxysilane with phosphorous pentachloride. *Journal of Polymer Science Part A*, **2002**, 40, 3182-3189 2.5
- 1 The origin of imperfections in low-density polyethylene films. *Journal of Polymer Science, Polymer Letters Edition*, **1984**, 22, 401-405