

Duchet-Rumeau Jannick

List of Publications by Year in descending order

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53
papers

1,596
citations

257450

24
h-index

315739

38
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53
all docs

53
docs citations

53
times ranked

1720
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of the Structure and Dispersion in Polymer-Layered Silicate Nanocomposites. <i>Macromolecules</i> , 2005, 38, 9661-9669.	4.8	180
2	A comparative study on different ionic liquids used as surfactants: Effect on thermal and mechanical properties of high-density polyethylene nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2010, 349, 424-433.	9.4	104
3	Synthesis and Characterization of Epoxy/MCDEA Networks Modified with Imidazolium-Based Ionic Liquids. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 826-834.	3.6	81
4	Synthesis and physical properties of new surfactants based on ionic liquids: Improvement of thermal stability and mechanical behaviour of high density polyethylene nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2011, 354, 555-562.	9.4	68
5	Polymers and Ionic Liquids: A Successful Wedding. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 359-368.	2.2	67
6	Development of Bioresorbable Hydrophilic-Hydrophobic Electrospun Scaffolds for Neural Tissue Engineering. <i>Biomacromolecules</i> , 2016, 17, 3172-3187.	5.4	64
7	Phosphonium ionic liquids as new compatibilizing agents of biopolymer blends composed of poly(butylene-adipate-co-terephthalate)/poly(lactic acid) (PBAT/PLA). <i>RSC Advances</i> , 2015, 5, 59082-59092.	3.6	62
8	Ionic liquids: A New Route for the Design of Epoxy Networks. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 481-490.	6.7	56
9	Nanostructured thermosets from ionic liquid building block-epoxy prepolymer mixtures. <i>RSC Advances</i> , 2014, 4, 28099-28106.	3.6	45
10	Development of Sustainable Thermosets from Cardanol-based Epoxy Prepolymer and Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8429-8438.	6.7	44
11	Understanding of Versatile and Tunable Nanostructuring of Ionic Liquids on Fluorinated Copolymer. <i>Macromolecules</i> , 2015, 48, 4581-4590.	4.8	41
12	Synthesis and physical properties of new layered silicates based on ionic liquids: improvement of thermal stability, mechanical behaviour and water permeability of PBAT nanocomposites. <i>RSC Advances</i> , 2014, 4, 26452-26461.	3.6	38
13	“Pancake” vs. brush-like regime of quaternizable polymer grafts: an efficient tool for nano-templating polyelectrolyte self-assembly. <i>Soft Matter</i> , 2012, 8, 715-725.	2.7	34
14	From Ionic Liquid Epoxy Monomer to Tunable Epoxy-Amine Network: Reaction Mechanism and Final Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3602-3613.	6.7	33
15	Tailoring of interfacial properties by ionic liquids in a fluorinated matrix based nanocomposites. <i>European Polymer Journal</i> , 2011, 47, 1361-1369.	5.4	32
16	Ionic liquids-lignin combination: an innovative way to improve mechanical behaviour and water vapour permeability of eco-designed biodegradable polymer blends. <i>RSC Advances</i> , 2015, 5, 1989-1998.	3.6	32
17	Toughening of Epoxy/Ionic Liquid Networks with Thermoplastics Based on Poly(2,6-dimethyl-1,4-phenylene ether) (PPE). <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1153-1164.	6.7	32
18	Synthesis and physical properties of new layered double hydroxides based on ionic liquids: Application to a polylactide matrix. <i>Journal of Colloid and Interface Science</i> , 2012, 388, 123-129.	9.4	31

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19	Tuning h-bond capability of hydroxylated-poly(2,3,4,5,6-pentafluorostyrene) grafted copolymers prepared by chemoselective and versatile thiol-fluoro click-type-coupling with mercaptoalcohols. Journal of Polymer Science Part A, 2012, 50, 3452-3460.	2.3	31
20	Controlled shear-induced molecular orientation and crystallization in polypropylene/talc microcomposites – Effects of the talc nature. Polymer, 2013, 54, 2764-2775.	3.8	31
21	1,2,3-Triazolium-Based Epoxy-Amine Networks: Ion-Conducting Polymer Electrolytes. Macromolecular Rapid Communications, 2016, 37, 1168-1174.	3.9	31
22	Probing nanomechanical properties with AFM to understand the structure and behavior of polymer blends compatibilized with ionic liquids. RSC Advances, 2016, 6, 96421-96430.	3.6	29
23	Structuration of ionic liquids in a poly(butylene-adipate-co-terephthalate) matrix: its influence on the water vapour permeability and mechanical properties. Green Chemistry, 2014, 16, 3758-3762.	9.0	26
24	Dual functions of ILs in the core-shell particle reinforced epoxy networks: Curing agent vs dispersion aids. Composites Science and Technology, 2017, 140, 30-38.	7.8	26
25	Nanostructuring of ionic liquids in fluorinated matrix: Influence on the mechanical properties. Polymer, 2011, 52, 1523-1531.	3.8	25
26	New Epoxy Thermosets Derived from a Bisimidazolium Ionic Liquid Monomer: An Experimental and Modeling Investigation. ACS Sustainable Chemistry and Engineering, 2020, 8, 12208-12221.	6.7	25
27	Supercritical CO ₂ -ionic liquid mixtures for modification of organoclays. Journal of Colloid and Interface Science, 2011, 353, 225-230.	9.4	24
28	Cycloaliphatic epoxidized ionic liquids as new versatile monomers for the development of shape memory PIL networks by 3D printing. Polymer Chemistry, 2020, 11, 5475-5483.	3.9	23
29	Structural dependence of cations and anions to building the polar phase of PVDF. European Polymer Journal, 2018, 107, 236-248.	5.4	22
30	Ionic Liquids: A Versatile Platform for the Design of a Multifunctional Epoxy Networks 2.0 Generation. Progress in Polymer Science, 2022, 132, 101581.	24.7	22
31	Corrosion resistance of porous ferritic stainless steel produced by liquid metal dealloying of Incoloy 800. Corrosion Science, 2020, 166, 108468.	6.6	20
32	Processing of nanocomposite foams in supercritical carbon dioxide. Part I: Effect of surfactant. Polymer, 2010, 51, 3436-3444.	3.8	19
33	Microstructure characterization by X-ray tomography and EBSD of porous FeCr produced by liquid metal dealloying. Materials Characterization, 2018, 144, 166-172.	4.4	19
34	Clay Dispersion and Aspect Ratios in Polymer-Clay Nanocomposites. Journal of Nanoscience and Nanotechnology, 2007, 7, 3160-3171.	0.9	17
35	Polyhedral oligomeric silsesquioxane-supported ionic liquid for designing nanostructured hybrid organic-inorganic networks. European Polymer Journal, 2019, 114, 332-337.	5.4	15
36	Thermoset-thermoplastic-ionic liquid ternary hybrids as novel functional polymer materials. Polymer, 2021, 218, 123507.	3.8	14

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37	Supercritical CO ₂ â€“Ionic Liquids: A Successful Wedding To Prepare Biopolymer Foams. ACS Sustainable Chemistry and Engineering, 2016, 4, 461-470.	6.7	13
38	PeakForce QNM AFM study of chitin-silica hybrid films. Carbohydrate Polymers, 2017, 166, 139-145.	10.2	13
39	Polyfluorinated mercaptoalcohol as a H-bond modifier of poly(2,3,4,5,6-pentafluorostyrene) (PPFS) enhancing miscibility of hydroxylated-PPFS with various acceptor polymers. Polymer, 2013, 54, 3757-3766.	3.8	12
40	Cold-rolling influence on microstructure and mechanical properties of NiCr - Ag composites and porous NiCr obtained by liquid metal dealloying. Journal of Alloys and Compounds, 2017, 707, 251-256.	5.5	11
41	Interfacial rheology testing of molten polymer systems: Effect of molecular weight and temperature on the interfacial properties. Polymer Testing, 2021, 101, 107280.	4.8	11
42	Enhanced mechanical and thermal properties of ionic liquid core/silica shell microcapsules-filled epoxy microcomposites. Polymer, 2021, 233, 124182.	3.8	10
43	Comparison of poly(ethylene glycol)-based networks obtained by cationic ring opening polymerization of neutral and 1,2,3-triazolium diepoxy monomers. Polymer Chemistry, 2020, 11, 1894-1905.	3.9	9
44	Dielectric behaviour of an epoxy network cured with a phosphonium-based ionic liquid. Polymer, 2021, 222, 123645.	3.8	9
45	Synthesis of new ionic liquid-grafted metal-oxo nanoclusters â€“ Design of nanostructured hybrid organic-inorganic polymer networks. Polymer, 2021, 224, 123721.	3.8	9
46	Application of supercritical CO ₂ and ionic liquids for the preparation of fluorinated nanocomposites. Journal of Colloid and Interface Science, 2012, 369, 111-116.	9.4	8
47	Mechanical Properties of FeCrâ€“Based Composite Materials Elaborated by Liquid Metal Dealloying towards Bioapplication. Advanced Engineering Materials, 2020, 22, 2000381.	3.5	8
48	Effect of Ionic Liquid Modified Synthetic Layered Silicates on Thermal and Mechanical Properties of High Density Polyethylene Nanocomposites. Macromolecular Symposia, 2014, 342, 46-55.	0.7	6
49	Homogeneously and gradually anchored self-assembled monolayer by tunable vapor phase-assisted silanization. RSC Advances, 2013, 3, 10497.	3.6	5
50	Synergetic catalytic effect of carbon nanotubes and polyethersulfone on polymerization of glassy epoxy-based systems â€“ isothermal kinetic modelling. Thermochimica Acta, 2014, 590, 107-115.	2.7	5
51	In situ generation of high aspect ratio silica particles in polypropylene. Journal of Sol-Gel Science and Technology, 2012, 63, 85-94.	2.4	3
52	Advanced characterization of the structuration of ionic liquids in a copolyester. European Polymer Journal, 2019, 118, 97-106.	5.4	1
53	In situ observation of liquid metal dealloying and etching of porous FeCr by X-ray tomography and X-ray diffraction. Materialia, 2021, 18, 101125.	2.7	0