Philippe Dubois

List of Publications by Citations

695 papers	39,247 citations	95 h-index	168 g-index
708 ext. papers	42,096 ext. citations	5.2 avg, IF	7.55 L-index

#	Paper	IF	Citations
695	Polymer-layered silicate nanocomposites: preparation, properties and uses of a new class of materials. *Materials Science and Engineering Reports*, **2000**, 28, 1-63	30.9	5024
694	New prospects in flame retardant polymer materials: From fundamentals to nanocomposites. *Materials Science and Engineering Reports*, **2009**, 63, 100-125	30.9	1132
693	Polylactide (PLA)-based nanocomposites. *Progress in Polymer Science*, **2013**, 38, 1504-1542	29.6	801
692	Bionanocomposites based on poly(ε-caprolactone)-grafted cellulose nanocrystals by ring-opening polymerization. *Journal of Materials Chemistry*, **2008**, 18, 5002		525
691	Controlled Radical Polymerization of Methacrylic Monomers in the Presence of a Bis(ortho-chelated) Arylnickel(II) Complex and Different Activated Alkyl Halides. *Macromolecules*, **1996**, 29, 8576-8582	5.5	498
690	PLA composites: From production to properties. *Advanced Drug Delivery Reviews*, **2016**, 107, 17-46	18.5	449
689	New nanocomposite materials based on plasticized poly(l-lactide) and organo-modified montmorillonites: thermal and morphological study. *Polymer*, **2003**, 44, 443-450	3.9	433
688	Poly(ε-caprolactone)/clay nanocomposites prepared by melt intercalation: mechanical, thermal and rheological properties. *Polymer*, **2002**, 43, 4017-4023	3.9	375
687	Mechanisms and kinetics of thermal degradation of poly(epsilon-caprolactone). *Biomacromolecules*, **2001**, 2, 288-94	6.9	324
686	From interfacial ring-opening polymerization to melt processing of cellulose nanowhisker-filled polylactide-based nanocomposites. *Biomacromolecules*, **2011**, 12, 2456-65	6.9	316
685	From controlled ring-opening polymerization to biodegradable aliphatic polyester: Especially poly(β-malic acid) derivatives. *Progress in Polymer Science*, **2006**, 31, 723-747	29.6	314
684	Vapor barrier properties of polycaprolactone montmorillonite nanocomposites: effect of clay dispersion. *Polymer*, **2003**, 44, 2271-2279	3.9	290
683	Dendrimer-like Star Block and Amphiphilic Copolymers by Combination of Ring Opening and Atom Transfer Radical Polymerization. *Macromolecules*, **1998**, 31, 8691-8705	5.5	286
682	Bio-based flame retardants: When nature meets fire protection. *Materials Science and Engineering Reports*, **2017**, 117, 1-25	30.9	267
681	Synthesis and post-polymerisation modifications of aliphatic poly(carbonate)s prepared by ring-opening polymerisation. *Chemical Society Reviews*, **2013**, 42, 1312-36	58.5	253
680	Polylactide/montmorillonite nanocomposites: study of the hydrolytic degradation. *Polymer Degradation and Stability*, **2005**, 87, 535-542	4.7	246
679	Polyethylene-layered silicate nanocomposites prepared by the polymerization-filling technique: synthesis and mechanical properties. *Polymer*, **2002**, 43, 2123-2132	3.9	236

678	Novel Macromolecular Architectures Based on Aliphatic Polyesters: Relevance of the "Coordination-Insertion" Ring-Opening Polymerization **1999**, 1-59		224
677	The production and properties of polylactide composites filled with expanded graphite. *Polymer Degradation and Stability*, **2010**, 95, 889-900	4.7	217
676	Surface-initiated controlled polymerization as a convenient method for designing functional polymer brushes: From self-assembled monolayers to patterned surfaces. *Progress in Polymer Science*, **2012**, 37, 157-181	29.6	204
675	Shape-memory polymers for multiple applications in the materials world. *European Polymer Journal* , **2016**, 80, 268-294	5.2	202
674	Halogen bonding at work: recent applications in synthetic chemistry and materials science. *CrystEngComm*, **2013**, 15, 3058-3071	3.3	200
673	High-performance polylactide/ZnO nanocomposites designed for films and fibers with special end-use properties. *Biomacromolecules*, **2011**, 12, 1762-71	6.9	199
672	Poly(ε-caprolactone)/Clay Nanocomposites by in-Situ Intercalative Polymerization Catalyzed by Dibutyltin Dimethoxide. *Macromolecules*, **2002**, 35, 8385-8390	5.5	198
671	Maleation of polylactide (PLA) by reactive extrusion. *Journal of Applied Polymer Science*, **1999**, 72, 477-485	2.9	194
670	Preparation and Properties of Layered Silicate Nanocomposites Based on Ethylene Vinyl Acetate Copolymers. *Macromolecular Rapid Communications*, **2001**, 22, 643-646	4.8	193
669	Simultaneous Dual Living Polymerizations: A Novel One-Step Approach to Block and Graft Copolymers. *Angewandte Chemie - International Edition*, **1998**, 37, 1274-1276	16.4	190
668	Controlled Radical Polymerization of Methyl Methacrylate in the Presence of Palladium Acetate, Triphenylphosphine, and Carbon Tetrachloride. *Macromolecules*, **1997**, 30, 7631-7633	5.5	188
667	Dual Living Free Radical and Ring Opening Polymerizations from a Double-Headed Initiator. *Macromolecules*, **1998**, 31, 213-219	5.5	187
666	Preparation and characterisation of silicone-based coatings filled with carbon nanotubes and natural sepiolite and their application as marine fouling-release coatings. *Biofouling*, **2008**, 24, 291-302	3.3	184
665	Poly(e-caprolactone) based nanocomposites reinforced by surface-grafted cellulose nanowhiskers via extrusion processing: Morphology, rheology, and thermo-mechanical properties. *Polymer*, **2011**, 52, 1532-1538	3.9	183
664	Recent Advances in Ring-Opening Polymerization of Lactones and Related Compounds. *Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics*, **1995**, 35, 379-418		183
663	Alternative Atom Transfer Radical Polymerization for MMA Using FeCl3 and AIBN in the Presence of Triphenylphosphine: An Easy Way to Well-Controlled PMMA. *Macromolecules*, **1998**, 31, 545-547	5.5	177
662	PLA-ZnO nanocomposite films: Water vapor barrier properties and specific end-use characteristics. *European Polymer Journal*, **2013**, 49, 3471-3482	5.2	176
661	Thermal and Morphological Characterization of Nanocomposites Prepared by in-Situ Polymerization of High-Density Polyethylene on Carbon Nanotubes. *Macromolecules*, **2007**, 40, 6268-6276	5.5	174

660	Controlled Radical Polymerization of (Meth)acrylates by ATRP with NiBr2(PPh3)2 as Catalyst. *Macromolecules*, **1999**, 32, 27-35	5.5	170
659	New approach on the development of plasticized polylactide (PLA): Grafting of poly(ethylene glycol) (PEG) via reactive extrusion. *European Polymer Journal*, **2011**, 47, 2134-2144	5.2	169
658	Recent Advances in Reactive Extrusion Processing of Biodegradable Polymer-Based Compositions. *Macromolecular Materials and Engineering*, **2008**, 293, 447-470	3.9	165
657	Controlled Radical Polymerization of Methyl Methacrylate Initiated by an Alkyl Halide in the Presence of the Wilkinson Catalyst. *Macromolecules*, **1998**, 31, 542-544	5.5	163
656	High molecular weight poly(butylene succinate-co-butylene furandicarboxylate) copolyesters: from catalyzed polycondensation reaction to thermomechanical properties. *Biomacromolecules*, **2012**, 13, 2973-81	6.9	161
655	Nucleation and Crystallization in Double Crystalline Poly(p-dioxanone)-b-poly(ε-caprolactone) Diblock Copolymers. *Macromolecules*, **2003**, 36, 1633-1644	5.5	160
654	Implementation of metal-free ring-opening polymerization in the preparation of aliphatic polycarbonate materials. *Progress in Polymer Science*, **2014**, 39, 1144-1164	29.6	158
653	Metal Ion Implantation for the Fabrication of Stretchable Electrodes on Elastomers. *Advanced Functional Materials*, **2009**, 19, 470-478	15.6	156
652	Polylactide (PLA)- new way of production. *Polymer Engineering and Science*, **1999**, 39, 1311-1319	2.3	152
651	Synthesis of a family of amphiphilic glycopolymers via controlled ring-opening polymerization of functionalized cyclic carbonates and their application in drug delivery. *Biomaterials*, **2010**, 31, 2637-45	15.6	151
650	Macromolecular engineering of polylactones and polylactides. X. Selective end-functionalization of poly(D,L)-lactide. *Journal of Polymer Science Part A*, **1993**, 31, 505-514	2.5	151
649	Gas barrier properties of poly(ε-caprolactone)/clay nanocomposites: Influence of the morphology and polymer/clay interactions. *Journal of Polymer Science, Part B: Polymer Physics*, **2005**, 43, 205-214	2.6	147
648	Crystallization Kinetics and Morphology of Biodegradable Double Crystalline PLLA-b-PCL Diblock Copolymers. *Macromolecules*, **2010**, 43, 4149-4160	5.5	146
647	Polymer/layered silicate nanocomposites by combined intercalative polymerization and melt intercalation: a masterbatch process. *Polymer*, **2003**, 44, 2033-2040	3.9	146
646	Crystallization in Poly(l-lactide)-b-poly(ε-caprolactone) Double Crystalline Diblock Copolymers: A Study Using X-ray Scattering, Differential Scanning Calorimetry, and Polarized Optical Microscopy. *Macromolecules*, **2005**, 38, 463-472	5.5	142
645	Controllable processes for generating large single crystals of poly(3-hexylthiophene). *Angewandte Chemie - International Edition*, **2012**, 51, 11131-5	16.4	139
644	Rheology, Processing, Tensile Properties, and Crystallization of Polyethylene/Carbon Nanotube Nanocomposites. *Macromolecules*, **2009**, 42, 4719-4727	5.5	137
643	Macromolecular Engineering of Polylactones and Polylactides. 19. Kinetics of Ring-Opening Polymerization of ε-Caprolactone Initiated with Functional Aluminum Alkoxides. *Macromolecules*, **1996**, 29, 1965-1975	5.5	137

642	Polylactide/cellulose nanocrystal nanocomposites: Efficient routes for nanofiber modification and effects of nanofiber chemistry on PLA reinforcement. *Polymer*, **2015**, 65, 9-17	3.9	136
641	Functionalized cyclic carbonates: from synthesis and metal-free catalyzed ring-opening polymerization to applications. *Polymer Chemistry*, **2011**, 2, 528-533	4.9	134
640	Effect of expanded graphite/layered-silicate clay on thermal, mechanical and fire retardant properties of poly(lactic acid). *Polymer Degradation and Stability*, **2010**, 95, 1063-1076	4.7	134
639	Aliphatic polyester-grafted starch-like polysaccharides by ring-opening polymerization. *Polymer*, **1999**, 40, 3091-3100	3.9	134
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637	Ionic liquid droplet as e-microreactor. *Analytical Chemistry*, **2006**, 78, 4909-17	7.8	133
636	Alcohol Adducts of N-Heterocyclic Carbenes: Latent Catalysts for the Thermally-Controlled Living Polymerization of Cyclic Esters. *Macromolecules*, **2006**, 39, 5617-5628	5.5	133
635	Plasticization of poly(lactide) with blends of tributyl citrate and low molecular weight poly(d,l-lactide)-b-poly(ethylene glycol) copolymers. *European Polymer Journal*, **2009**, 45, 2839-2848	5.2	131
634	Production of starch foams by twin-screw extrusion: effect of maleated poly(butylene adipate-co-terephthalate) as a compatibilizer. *Biomacromolecules*, **2005**, 6, 807-17	6.9	130
633	Polylactide (PLA) designed with desired end-use properties: 1. PLA compositions with low molecular weight ester-like plasticizers and related performances. *Polymers for Advanced Technologies*, **2008**, 19, 636-646	3.2	128
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631	Organocatalytic Synthesis and Postpolymerization Functionalization of Allyl-Functional Poly(carbonate)s. *Macromolecules*, **2011**, 44, 2084-2091	5.5	127
630	Ring-Opening Polymerization of 1,4,8-Trioxaspiro[4.6]-9-undecanone: A New Route to Aliphatic Polyesters Bearing Functional Pendent Groups. *Macromolecules*, **1997**, 30, 406-409	5.5	127
629	Polymer-layered silicate carbon nanotube nanocomposites: unique nanofiller synergistic effect. *Composites Science and Technology*, **2004**, 64, 2317-2323	8.6	127
628	Exfoliated Polylactide/Clay Nanocomposites by In-Situ Coordination Insertion Polymerization. *Macromolecular Rapid Communications*, **2003**, 24, 561-566	4.8	127
627	Free-Radical-Induced Grafting from Plasma Polymer Surfaces. *Chemical Reviews*, **2016**, 116, 3975-4005	68.1	126
626	Latent, thermally activated organic catalysts for the on-demand living polymerization of lactide. *Angewandte Chemie - International Edition*, **2005**, 44, 4964-8	16.4	124
625	Probe-based 3-D nanolithography using self-amplified depolymerization polymers. *Advanced Materials*, **2010**, 22, 3361-5	24	123

624	Controlled Ring-Opening Polymerization of ε-Caprolactone Promoted by in Situ-Formed Yttrium Alkoxides. *Macromolecules*, **2000**, 33, 1530-1535	5.5	123
623	Designing Multiple-Shape Memory Polymers with Miscible Polymer Blends: Evidence and Origins of a Triple-Shape Memory Effect for Miscible PLLA/PMMA Blends. *Macromolecules*, **2014**, 47, 6791-6803	5.5	122
622	Self-nucleation and crystallization kinetics of double crystalline poly(p-dioxanone)-b-poly(epsilon-caprolactone) diblock copolymers. *Faraday Discussions*, **2005**, 128, 231-52; discussion 321-39	3.6	122
621	Maleated thermoplastic starch by reactive extrusion. *Carbohydrate Polymers*, **2008**, 74, 159-169	10.3	116
620	Free radical branching of polylactide by reactive extrusion. *Polymer Engineering and Science*, **1998**, 38, 311-321	2.3	113
619	One-Pot Preparation of Polymer/Clay Nanocomposites Starting from Na+Montmorillonite. 1. Melt Intercalation of Ethylene-Vinyl Acetate Copolymer. *Chemistry of Materials*, **2001**, 13, 3830-3832	9.6	112
618	Microdomain Morphology Analysis of Block Copolymers by Atomic Force Microscopy with Phase Detection Imaging. *Langmuir*, **1996**, 12, 4317-4320	4	111
617	Biobased poly(butylene 2,5-furandicarboxylate) and poly(butylene adipate-co-butylene 2,5-furandicarboxylate)s: From synthesis using highly purified 2,5-furandicarboxylic acid to thermo-mechanical properties. *Polymer*, **2014**, 55, 3648-3655	3.9	109
616	Thermoreversibly crosslinked poly(ε-caprolactone) as recyclable shape-memory polymer network. *Macromolecular Rapid Communications*, **2011**, 32, 1264-9	4.8	106
615	Poly(ethylene-co-vinyl acetate)/clay nanocomposites: Effect of clay nature and organic modifiers on morphology, mechanical and thermal properties. *Polymer Degradation and Stability*, **2005**, 90, 288-294	4.7	106
614	Organocatalytic depolymerization of poly(ethylene terephthalate). *Journal of Polymer Science Part A*, **2011**, 49, 1273-1281	2.5	105
613	Biodegradable compositions by reactive processing of aliphatic polyester/polysaccharide blends. *Macromolecular Symposia*, **2003**, 198, 233-244	0.8	105
612	Recent advances in high performance poly(lactide): from "green" plasticization to super-tough materials via (reactive) compounding. *Frontiers in Chemistry*, **2013**, 1, 32	5	104
611	Actuation potentials and capillary forces in electrowetting based microsystems. *Sensors and Actuators A: Physical*, **2007**, 134, 471-479	3.9	104
610	PLA/Halloysite Nanocomposite Films: Water Vapor Barrier Properties and Specific Key Characteristics. *Macromolecular Materials and Engineering*, **2014**, 299, 104-115	3.9	103
609	Plasticized polylactide/clay nanocomposites. I. The role of filler content and its surface organo-modification on the physico-chemical properties. *Journal of Polymer Science, Part B: Polymer Physics*, **2006**, 44, 299-311	2.6	103
608	Polytetrahydrofuran/Clay Nanocomposites by In Situ Polymerization and "Click" Chemistry Processes. *Macromolecules*, **2008**, 41, 6035-6040	5.5	102
607	Phosphorus and nitrogen derivatization as efficient route for improvement of lignin flame retardant action in PLA. *European Polymer Journal*, **2016**, 84, 652-667	5.2	102

606	Photochemical behavior of polylactide/ZnO nanocomposite films. *Biomacromolecules*, **2012**, 13, 3283-916.9		101
605	Surface-Initiated Ring-Opening Polymerization: A Versatile Method for Nanoparticle Ordering. *Macromolecules*, **2002**, 35, 8400-8404	5.5	99
604	New development on plasticized poly(lactide): Chemical grafting of citrate on PLA by reactive extrusion. *European Polymer Journal*, **2012**, 48, 404-415	5.2	98
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602	Eugenol-based benzoxazine: from straight synthesis to taming of the network properties. *Journal of Materials Chemistry A*, **2015**, 3, 6012-6018	13	96
601	Hydrogen-bonding catalysts based on fluorinated alcohol derivatives for living polymerization. *Angewandte Chemie - International Edition*, **2009**, 48, 5170-3	16.4	96
600	Polymer/carbon nanotube nanocomposites: Influence of carbon nanotubes on EVA photodegradation. *Polymer Degradation and Stability*, **2007**, 92, 1873-1882	4.7	95
599	Supported coordination polymerization: a unique way to potent polyolefin carbon nanotube nanocomposites. *Chemical Communications*, **2005**, 781-3	5.8	95
598	(Plasticized) Polylactide/(Organo-)Clay Nanocomposites by in situ Intercalative Polymerization. *Macromolecular Chemistry and Physics*, **2005**, 206, 484-498	2.6	94
597	In situ compatibilization of maleated thermoplastic starch/polyester melt-blends by reactive extrusion. *Polymer Engineering and Science*, **2008**, 48, 1747-1754	2.3	92
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594	Versatile and Controlled Synthesis of Star and Branched Macromolecules by Dentritic Initiation. *Macromolecules*, **1997**, 30, 8508-8511	5.5	90
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591	Controlled Ring-Opening Polymerization of ε-Caprolactone in the Presence of Layered Silicates and Formation of Nanocomposites. *Macromolecules*, **2002**, 35, 3318-3320	5.5	88
590	Supernucleation and crystallization regime change provoked by MWNT addition to poly(ε-caprolactone). *Polymer*, **2012**, 53, 832-841	3.9	87
589	Biodegradable and biocompatible inorganic–organic hybrid materials. I. Synthesis and characterization. *Journal of Polymer Science Part A*, **1997**, 35, 2295-2309	2.5	87

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586	Poly(lactic acid)/carbon nanotube nanocomposites with integrated degradation sensing. *Polymer*, **2013**, 54, 6818-6823	3.9	83
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584	(Plasticized) Polylactide/clay nanocomposite textile: thermal, mechanical, shrinkage and fire properties. *Journal of Materials Science*, **2007**, 42, 5105-5117	4.3	82
583	Metal-Free Catalyzed Ring-Opening Polymerization of β-Lactones: Synthesis of Amphiphilic Triblock Copolymers Based on Poly(dimethylmalic acid). *Macromolecules*, **2006**, 39, 4001-4008	5.5	81
582	Bio-based high performance thermosets: Stabilization and reinforcement of eugenol-based benzoxazine networks with BMI and CNT. *European Polymer Journal*, **2015**, 67, 494-502	5.2	80
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580	Controlled synthesis of amphiphilic biodegradable polylactide-grafted dextran copolymers. *Journal of Polymer Science Part A*, **2004**, 42, 2577-2588	2.5	79
579	Photooxidation of polylactide/calcium sulphate composites. *Polymer Degradation and Stability*, **2011**, 96, 616-623	4.7	78
578	Polylactide compositions. Part 1: Effect of filler content and size on mechanical properties of PLA/calcium sulfate composites. *Polymer*, **2007**, 48, 2613-2618	3.9	78
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572	Metallic phytates as efficient bio-based phosphorous flame retardant additives for poly(lactic acid). *Polymer Degradation and Stability*, **2015**, 119, 217-227	4.7	75
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570	Expanding the role of chemistry to produce new amphiphilic polymer (co)networks. *Soft Matter*, **2009**, 5, 4878	3.6	75
569	Polyester layered silicate nanohybrids by controlled grafting polymerization. *Journal of Materials Chemistry*, **2002**, 12, 3528-3532		75
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565	One-Pot Synthesis of Well-Defined Amphiphilic and Adaptative Block Copolymers via Versatile Combination of Click Chemistry and ATRP. *Macromolecular Rapid Communications*, **2007**, 28, 2151-2158	4.8	73
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563	Phytic acid lignin combination: A simple and efficient route for enhancing thermal and flame retardant properties of polylactide. *European Polymer Journal*, **2017**, 94, 270-285	5.2	71
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560	Stereocomplexation of polylactide enhanced by poly(methyl methacrylate): improved processability and thermomechanical properties of stereocomplexable polylactide-based materials. *ACS Applied Materials & Interfaces*, **2013**, 5, 11797-807	9.5	70
559	Controlled room temperature ROP of L-lactide by ICl3: a simple halogen-bonding catalyst. *Polymer Chemistry*, **2010**, 1, 434-437	4.9	70
558	Probe-Based Nanolithography: Self-Amplified Depolymerization Media for Dry Lithography. *Macromolecules*, **2010**, 43, 572-574	5.5	70
557	How can Nanohybrids Enhance Polyester/Sepiolite Nanocomposite Properties?. *Macromolecular Chemistry and Physics*, **2007**, 208, 2542-2550	2.6	70
556	Polyelectrolyte complexes between (cross-linked) N-carboxyethylchitosan and (quaternized) poly[2-(dimethylamino)ethyl methacrylate]: preparation, characterization, and antibacterial properties. *Biomacromolecules*, **2007**, 8, 976-84	6.9	69
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550	Large-Stroke Dielectric Elastomer Actuators With Ion-Implanted Electrodes. *Journal of Microelectromechanical Systems*, **2009**, 18, 1300-1308	2.5	68
549	Macromolecular Engineering of Polylactones and Polylactides. 23. Synthesis and Characterization of Biodegradable and Biocompatible Homopolymers and Block Copolymers Based on 1,4,8-Trioxa[4.6]spiro-9-undecanone. *Macromolecules*, **1997**, 30, 1947-1954	5.5	68
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