

# Eric Leroy

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,691  
citations

236833

25  
h-index

276775

41  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1931  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoplastic starch plasticized by an ionic liquid. Carbohydrate Polymers, 2010, 82, 256-263.	5.1	127
2	Influence of TiO <sub>2</sub> and Fe <sub>2</sub> O <sub>3</sub> fillers on the thermal properties of poly(methyl methacrylate) (PMMA). Materials Letters, 2005, 59, 36-39.	1.3	119
3	Effect of Al <sub>2</sub> O <sub>3</sub> and TiO <sub>2</sub> nanoparticles and APP on thermal stability and flame retardance of PMMA. Polymers for Advanced Technologies, 2006, 17, 327-334.	1.6	99
4	Compatibilization of starch/zein melt processed blends by an ionic liquid used as plasticizer. Carbohydrate Polymers, 2012, 89, 955-963.	5.1	94
5	Polyethylene/ground tyre rubber blends: Influence of particle morphology and oxidation on mechanical properties. Polymer Testing, 2007, 26, 274-281.	2.3	93
6	Influence of talc physical properties on the fire retarding behaviour of (ethylene vinyl acetate) Tj ETQq0 0 0 rgBT/Overlock_10 Tf 50 5	2.7	89
7	Deep eutectic solvents as functional additives for starch based plastics. Green Chemistry, 2012, 14, 3063.	4.6	89
8	Segmental Dynamics in Miscible Polymer Blends: Modeling the Combined Effects of Chain Connectivity and Concentration Fluctuations. Macromolecules, 2003, 36, 7280-7288.	2.2	74
9	Compatibilizing thermoplastic/ground tyre rubber powder blends: Efficiency and limits. Polymer Testing, 2008, 27, 901-907.	2.3	73
10	Quantitative Study of Chain Connectivity Inducing Effective Glass Transition Temperatures in Miscible Polymer Blends. Macromolecules, 2002, 35, 5587-5590.	2.2	67
11	Plant-crafted starches for bioplastics production. Carbohydrate Polymers, 2016, 152, 398-408.	5.1	64
12	Understanding the destructurement of starch in water/ionic liquid mixtures. Green Chemistry, 2015, 17, 291-299.	4.6	59
13	Material extrusion of plant biopolymers: Opportunities & challenges for 3D printing. Additive Manufacturing, 2018, 21, 220-233.	1.7	54
14	A continuous kinetic model of rubber vulcanization predicting induction and reversion. Polymer Testing, 2013, 32, 575-582.	2.3	45
15	Biofriendly ionic liquids for starch plasticization: a screening approach. RSC Advances, 2016, 6, 90331-90337.	1.7	36
16	Rheological characterization of a thermally unstable bioplastic in injection molding conditions. Polymer Degradation and Stability, 2012, 97, 1915-1921.	2.7	35
17	Shape memory starch/clay bionanocomposites. Carbohydrate Polymers, 2015, 116, 307-313.	5.1	35
18	Small-scale food process engineering – Challenges and perspectives. Innovative Food Science and Emerging Technologies, 2018, 46, 122-130.	2.7	34

#	ARTICLE	IF	CITATIONS
19	Choline chloride vs choline ionic liquids for starch thermoplasticization. Carbohydrate Polymers, 2017, 177, 424-432.	5.1	33
20	Optimizing a recycling process of SMC composite waste. Waste Management, 2008, 28, 541-548.	3.7	31
21	A knowledge based approach for elastomer cure kinetic parameters estimation. Polymer Testing, 2013, 32, 9-14.	2.3	30
22	Determination of activation energy and preexponential factor of thermoset reaction kinetics using differential scanning calorimetry in scanning mode: Influence of baseline shape on different calculation methods. Journal of Applied Polymer Science, 2000, 78, 2262-2271.	1.3	29
23	The kinetic behavior of Liquid Silicone Rubber: A comparison between thermal and rheological approaches based on gel point determination. Reactive and Functional Polymers, 2016, 101, 20-27.	2.0	29
24	Glycol based plasticisers for salt modified starch. RSC Advances, 2014, 4, 40421-40427.	1.7	28
25	A Method of Estimating Kinetic Parameters of Thermoset Cures: Application to a Dicyanate Ester Resin. Macromolecular Chemistry and Physics, 2001, 202, 465-474.	1.1	26
26	Concentration driven cocrystallisation and percolation in all-cellulose nanocomposites. Cellulose, 2016, 23, 529-543.	2.4	21
27	Influence of ionic plasticizers on the processing and viscosity of starch melts. Carbohydrate Polymers, 2020, 230, 115591.	5.1	20
28	On the representative elementary size concept to evaluate the compatibilisation of a plasticised biopolymer blend. Carbohydrate Polymers, 2017, 172, 120-129.	5.1	16
29	Nanostructured cellulose-xyloglucan blends via ionic liquid/water processing. Carbohydrate Polymers, 2017, 168, 163-172.	5.1	15
30	Viscous sintering kinetics of biopolymer filaments extruded for 3D printing. Polymer Testing, 2019, 77, 105873.	2.3	15
31	A drug delivery system obtained by hot-melt processing of zein plasticized by a pharmaceutically active ionic liquid. Journal of Materials Chemistry B, 2020, 8, 4672-4679.	2.9	13
32	Evolution of the coefficient of thermal expansion of a thermosetting polymer during cure reaction. Polymer, 2005, 46, 9919-9927.	1.8	12
33	Interphase vs confinement in starch-clay bionanocomposites. Carbohydrate Polymers, 2015, 117, 746-752.	5.1	12
34	Rheology and structural changes of plasticized zeins in the molten state. Rheologica Acta, 2017, 56, 941-953.	1.1	12
35	Treatment of SMC Composite Waste for Recycling as Reinforcing Fillers in Thermoplastics. Macromolecular Symposia, 2005, 221, 227-236.	0.4	11
36	Validation in process-like conditions of the kinetic and thermophysical modeling of a dicyanate ester/glass fibers composite. Thermochimica Acta, 2002, 388, 313-325.	1.2	8

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37	3D printing of maize protein by fused deposition modeling. AIP Conference Proceedings, 2017, , .	0.3	8
38	Structural origin of stress and shape recovery in shape memory starch. Polymer, 2015, 77, 361-365.	1.8	7
39	Influence of reversion on adhesion in the rubber-to-metal vulcanization-bonding process. Polymer Testing, 2015, 41, 157-162.	2.3	7
40	Rheological characterization and modelling of the rubber to metal vulcanization-bonding process. Polymer Testing, 2014, 36, 88-94.	2.3	6
41	Hydroxyl telechelic natural rubber-based polyurethane: Influence of molecular weight on non-isothermal cure kinetics. Thermochimica Acta, 2015, 620, 51-58.	1.2	4
42	Plasticized protein for 3D printing by fused deposition modeling. AIP Conference Proceedings, 2016, , .	0.3	4
43	Rubber-based acrylate resins: An alternative for tire recycling and carbon neutral thermoset materials design. Journal of Applied Polymer Science, 2016, 133, .	1.3	2
44	Modelling segmental dynamics in miscible polymer blends. Macromolecular Symposia, 2003, 198, 19-28.	0.4	1
45	Rheological characterization of plasticized corn proteins for fused deposition modeling. AIP Conference Proceedings, 2017, , .	0.3	1
46	Cellulose-xyloglucan composite film processing using ionic liquids as co-solvents. AIP Conference Proceedings, 2017, , .	0.3	1
47	Fusion-bonding behavior of plasticized corn proteins in fused deposition modeling process. AIP Conference Proceedings, 2019, , .	0.3	1
48	Contour Fitting of Fused Filaments Cross-Section Images by Lemniscates of Booth: Application to Viscous Sintering Kinetics Modeling. Polymers, 2021, 13, 3965.	2.0	1