Rafal Malinowski

List of Publications by Citations

45 papers	585 citations	14 h-index	22 g-index
52 ext. papers	695 ext. citations	3.5 avg, IF	4.24 L-index

#	Paper	IF	Citations
45	Tough blends of poly(lactide) and amorphous poly([R,S]-3-hydroxy butyrate) – morphology and properties. *European Polymer Journal*, **2013**, 49, 3630-3641	5.2	81
44	Influence of some crosslinking agents on thermal and mechanical properties of electron beam irradiated polylactide. *Radiation Physics and Chemistry*, **2010**, 79, 1052-1057	2.5	48
43	Forensic engineering of advanced polymeric materials. Part III - Biodegradation of thermoformed rigid PLA packaging under industrial composting conditions. *Waste Management*, **2016**, 52, 69-76	8.6	45
42	Some composting and biodegradation effects of physically or chemically crosslinked poly(lactic acid). *Polymer Testing*, **2012**, 31, 83-92	4.5	30
41	Influence of Dicumyl Peroxide Content on Thermal and Mechanical Properties of Polylactide. *International Polymer Processing*, **2011**, 26, 580-586	1	30
40	Comparison of some effects of modification of a polylactide surface layer by chemical, plasma, and laser methods. *Applied Surface Science*, **2015**, 346, 11-17	6.7	29
39	A comparative analysis of mass losses of some aliphatic polyesters upon enzymatic degradation. *Polymer Testing*, **2013**, 32, 209-214	4.5	26
38	Stability studies of plasma modification effects of polylactide and polycaprolactone surface layers. *Applied Surface Science*, **2016**, 377, 228-237	6.7	25
37	The Effect of Accelerated Aging on Polylactide Containing Plant Extracts. *Polymers*, **2019**, 11,	4.5	20
36	Flax fibres reinforced polylactide modified by ionizing radiation. *Industrial Crops and Products*, **2018**, 112, 716-723	5.9	19
35	Assessment of dicumyl peroxide ability to improve adhesion between polylactide and flax or hemp fibres. *Composite Interfaces*, **2014**, 21, 671-683	2.3	16
34	Influence of glass microspheres on selected properties of polylactide composites. *Composites Part B: Engineering*, **2015**, 76, 13-19	10	15
33	Effect of high energy – radiation and addition of triallyl isocyanurate on the selected properties of polylactide. *Nuclear Instruments & Methods in Physics Research B*, **2016**, 377, 59-66	1.2	14
32	Mechanical properties of PLA/PCL blends crosslinked by electron beam and TAIC additive. *Chemical Physics Letters*, **2016**, 662, 91-96	2.5	14
31	Studies on functional properties of PCL films modified by electron radiation and TAIC additive. *Polymer Testing*, **2015**, 48, 169-174	4.5	12
30	Effect of electron radiation and triallyl isocyanurate on the average molecular weight and crosslinking of poly(ε-caprolactone). *Polymers for Advanced Technologies*, **2016**, 27, 125-130	3.2	12
29	Laser modification of polylactide surface layer prior autocatalytic metallization. *Surface and Coatings Technology*, **2016**, 304, 68-75	4.4	11

28	Selected biodegradable polymers - preparation, properties, applications. *Polimery*, **2008**, 53, 799-807	3.4	10
27	Selected properties of polylactide containing natural antiaging compounds. *Polymers for Advanced Technologies*, **2018**, 29, 2963-2971	3.2	9
26	Influence of DC plasma modification on the selected properties and the geometrical surface structure of polylactide prior to autocatalytic metallization. *Materials Chemistry and Physics*, **2015**, 153, 135-144	4.4	9
25	Mechanical properties and biodegradability of flax fiber-reinforced composite of polylactide and polycaprolactone. *Polimery*, **2018**, 63, 603-610	3.4	9
24	Antimicrobial carbon materials incorporating copper nano-crystallites and their PLA composites. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	9
23	Studies on Manufacturing, Mechanical Properties and Structure of Poly(butylene adipate-co-terephthalate)-based Green Composites Modified by Coconut Fibers. *International Journal of Precision Engineering and Manufacturing - Green Technology*, **2020**, 7, 1095-1105	3.8	8
22	Application of the electron radiation and triallyl isocyanurate for production of aliphatic-aromatic co-polyester of modified properties. *International Journal of Advanced Manufacturing Technology*, **2016**, 87, 3307-3314	3.2	8
21	Composting of Polylactide Containing Natural Anti-Aging Compounds of Plant Origin. *Polymers*, **2019**, 11,	4.5	7
20	Low-temperature plasma modification of polymers Methods and equipment. *Polimery*, **2011**, 56, 185-195	3.4	7
19	Plant extracts as natural additives for environmentally friendly polylactide films. *Food Packaging and Shelf Life*, **2020**, 26, 100593	8.2	6
18	Application of thermogravimetry in the assessment of coatings ability to be metallized. *Journal of Thermal Analysis and Calorimetry*, **2017**, 127, 381-387	4.1	5
17	GC/MS analysis of gaseous degradation products formed during extrusion blow molding process of PE films. *Chemical Papers*, **2010**, 64,	1.9	5
16	Some effects of radiation treatment of biodegradable PCL/PLA blends. *Journal of Polymer Engineering*, **2018**, 38, 635-640	1.4	4
15	Some effects of foaming of the poly(butylene adipate-co-terephthalate) modified by electron radiation. *Polymers for Advanced Technologies*, **2018**, 29, 1117-1122	3.2	4
14	Bactericidal and Fungistatic Properties of LDPE Modified with a Biocide Containing Metal Nanoparticles. *Materials*, **2021**, 14,	3.5	4
13	Selected properties of polycaprolactone containing natural anti-aging compounds. *Advances in Polymer Technology*, **2018**, 37, 3499-3510	1.9	4
12	Influence of Specific Processing Conditions and Aliphatic-Aromatic Copolyester on Polylactide Properties. *Chemical Engineering Communications*, **2016**, 203, 1540-1546	2.2	3
11	Autocatalytic metallization of polylactide. *Polimery*, **2015**, 60, 492-500	3.4	3

10	Analysis of swelling degree and gel fraction of polylactide/poly(butylene adipate-co-terephthalate) blends crosslinked by radiation. *Polimery*, **2018**, 63, 25-30	3.4	3
9	Laser-induced surface activation and electroless metallization of polyurethane coating containing copper(II) L-tyrosine. *Applied Surface Science*, **2020**, 505, 144429	6.7	3
8	The Structure and Mechanical Properties of Hemp Fibers-Reinforced Poly(ε-Caprolactone) Composites Modified by Electron Beam Irradiation. *Applied Sciences (Switzerland)*, **2021**, 11, 5317	2.6	3
7	Flax fibers reinforced polycaprolactone modified by triallyl isocyanurate and electron radiation. *Polymer Composites*, **2019**, 40, 481-488	3	3
6	Effects of UV radiation on some properties of dyed polylactide film. *Polimery*, **2017**, 62, 193-197	3.4	2
5	TG-FTIR coupled analysis to predetermine effective precursors for laser-activated and electroless metallized materials. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 697-705	4.1	2
4	Copper Filled Poly(Acrylonitrile-co-Butadiene-co-Styrene) Composites for Laser-Assisted Selective Metallization. *Materials*, **2020**, 13,	3.5	1
3	Studies on the Uncrosslinked Fraction of PLA/PBAT Blends Modified by Electron Radiation. *Materials*, **2020**, 13,	3.5	1
2	The soluble copolymers of polyalkylthiophenes with different molar ratios of co-mers. *Journal of Polymer Engineering*, **2015**, 35, 241-246	1.4	1
1	Surface modification of maize stem with polydopamine and tannic acid coatings. *Surfaces and Interfaces*, **2021**, 26, 101319	4.1	1