

Piotr Rytlewski

List of Publications by Year in descending order

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52
papers

908
citations

471061

17
h-index

476904

29
g-index

55
all docs

55
docs citations

55
times ranked

1019
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterisation of multi-extruded poly(lactic acid). <i>Polymer Testing</i> , 2009, 28, 412-418.	2.3	176
2	Influence of some crosslinking agents on thermal and mechanical properties of electron beam irradiated polylactide. <i>Radiation Physics and Chemistry</i> , 2010, 79, 1052-1057.	1.4	57
3	Laser induced surface modification of polylactide. <i>Journal of Materials Processing Technology</i> , 2012, 212, 1700-1704.	3.1	50
4	Enzymatic degradation of flax-fibers reinforced polylactide. <i>International Biodeterioration and Biodegradation</i> , 2018, 126, 160-166.	1.9	40
5	Comparison of some effects of modification of a polylactide surface layer by chemical, plasma, and laser methods. <i>Applied Surface Science</i> , 2015, 346, 11-17.	3.1	39
6	Laser-induced surface modification of polystyrene. <i>Applied Surface Science</i> , 2009, 256, 857-861.	3.1	36
7	Some composting and biodegradation effects of physically or chemically crosslinked poly(lactic acid). <i>Polymer Testing</i> , 2012, 31, 83-92.	2.3	34
8	The Effect of Accelerated Aging on Polylactide Containing Plant Extracts. <i>Polymers</i> , 2019, 11, 575.	2.0	33
9	Stability studies of plasma modification effects of polylactide and polycaprolactone surface layers. <i>Applied Surface Science</i> , 2016, 377, 228-237.	3.1	31
10	A review on the direct electroplating of polymeric materials. <i>Journal of Materials Science</i> , 2021, 56, 14881-14899.	1.7	26
11	Influence of glass microspheres on selected properties of polylactide composites. <i>Composites Part B: Engineering</i> , 2015, 76, 13-19.	5.9	25
12	Surface morphology studies of laser irradiated and chemically metalized polyamide composites. <i>Surface and Coatings Technology</i> , 2011, 205, 5248-5253.	2.2	23
13	Laser-assisted metallization of composite coatings containing copper(II) acetylacetonate and copper(II) oxide or copper(II) hydroxide. <i>Surface and Coatings Technology</i> , 2014, 259, 660-666.	2.2	22
14	Laser induced electroactivity of polyamide composites. <i>Electrochimica Acta</i> , 2012, 61, 191-197.	2.6	21
15	Assessment of dicumyl peroxide ability to improve adhesion between polylactide and flax or hemp fibres. <i>Composite Interfaces</i> , 2014, 21, 671-683.	1.3	21
16	Flax fibres reinforced polylactide modified by ionizing radiation. <i>Industrial Crops and Products</i> , 2018, 112, 716-723.	2.5	21
17	Copper(II) complex with L-arginine – Crystal structure, DFT calculations, spectroscopic, thermal and magnetic properties. <i>Materials Chemistry and Physics</i> , 2019, 228, 272-284.	2.0	17
18	Mechanical properties and biodegradability of flax fiber-reinforced composite of polylactide and polycaprolactone. <i>Polimery</i> , 2018, 63, 603-610.	0.4	17

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19	Studies on functional properties of PCL films modified by electron radiation and TAIC additive. <i>Polymer Testing</i> , 2015, 48, 169-174.	2.3	15
20	Plant extracts as natural additives for environmentally friendly polylactide films. <i>Food Packaging and Shelf Life</i> , 2020, 26, 100593.	3.3	15
21	Some Effects of Corona Plasma Treatment of Polylactide/Montmorillonite Nanocomposite Films. <i>Plasma Processes and Polymers</i> , 2009, 6, S387.	1.6	14
22	Laser-induced surface activation of biocomposites for electroless metallization. <i>Surface and Coatings Technology</i> , 2017, 311, 104-112.	2.2	14
23	Influence of DC plasma modification on the selected properties and the geometrical surface structure of polylactide prior to autocatalytic metallization. <i>Materials Chemistry and Physics</i> , 2015, 153, 135-144.	2.0	12
24	Laser-induced surface activation and electroless metallization of polyurethane coating containing copper(II) L-tyrosine. <i>Applied Surface Science</i> , 2020, 505, 144429.	3.1	12
25	Comparative analysis of shungite and graphite effects on some properties of polylactide composites. <i>Polymer Testing</i> , 2011, 30, 429-435.	2.3	10
26	Application of Nd:YAG Laser in Electroless Metallization of Polymer Composites. <i>Materials and Manufacturing Processes</i> , 2014, 29, 1111-1116.	2.7	10
27	Effects of coffee on the stability of accelerated aged poly(acrylonitrile- <i>butadiene</i> - <i>styrene</i>). <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	10
28	Composting of Polylactide Containing Natural Anti-Aging Compounds of Plant Origin. <i>Polymers</i> , 2019, 11, 1582.	2.0	10
29	Influence of glass fibre content on catalytic and adhesion properties of laser irradiated polyamide composites. <i>Surface Engineering</i> , 2013, 29, 713-719.	1.1	9
30	Laser-assisted Electroless Metallization of Polymer Materials: A Critical Review. <i>Reviews of Adhesion and Adhesives</i> , 2016, 4, 334-366.	3.3	9
31	Polyhydroxyalkanoates production from short and medium chain carboxylic acids by <i>Paracoccus homiensis</i> . <i>Scientific Reports</i> , 2022, 12, 7263.	1.6	8
32	Application of thermogravimetry in the assessment of coatings ability to be metallized. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 127, 381-387.	2.0	7
33	Electrostatic separation of binary mixtures of some biodegradable polymers and poly(vinyl chloride) or poly(ethylene terephthalate). <i>Polimery</i> , 2016, 61, 835-843.	0.4	7
34	Autocatalytic metallization of polylactide. <i>Polimery</i> , 2015, 60, 492-500.	0.4	6
35	Copper Filled Poly(Acrylonitrile-co-Butadiene-co-Styrene) Composites for Laser-Assisted Selective Metallization. <i>Materials</i> , 2020, 13, 2224.	1.3	5
36	Laser modification of polymeric materials. Part III. Laser ablation and changes of geometric structure of the surface. <i>Polimery</i> , 2007, 52, 634-639.	0.4	5

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37	Effects of Laser Irradiation on Surface Properties of Poly(ethylene terephthalate). Journal of Adhesion Science and Technology, 2010, 24, 685-697.	1.4	4
38	Flax fibers reinforced polycaprolactone modified by triallyl isocyanurate and electron radiation. Polymer Composites, 2019, 40, 481-488.	2.3	4
39	Evaluation of the Mechanical and Biocidal Properties of Lapacho from Tabebuia Plant as a Biocomposite Material. Materials, 2021, 14, 4241.	1.3	4
40	Laser modification of polymeric materials. Part II. Chemical reactions induced by laser beam. Polimery, 2007, 52, 403-410.	0.4	4
41	Riboflavin as a Biodegradable Functional Additive for Thermoplastic Polymers. Environments - MDPI, 2022, 9, 56.	1.5	4
42	Influence of Specific Processing Conditions and Aliphatic-Aromatic Copolyester on Polylactide Properties. Chemical Engineering Communications, 2016, 203, 1540-1546.	1.5	3
43	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.	2.0	3
44	Crystal and molecular structure stabilized by weak interaction in unique 3,5-diiodo-L-tyrosinato copper(II) complex – synthesis, experimental and theoretical studies. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 262, 114723.	1.7	2
45	Laser Activated and Electroless Metalized Polyurethane Coatings Containing Copper(II) L-Tyrosine and Glass Microspheres. Molecules, 2021, 26, 5571.	1.7	2
46	Recyclability of new polylactide based biodegradable materials with plant extracts containing natural polyphenols. Sustainable Materials and Technologies, 2021, 30, e00351.	1.7	2
47	Electroless metallization of plastics. Polimery, 2017, 62, 163-169.	0.4	2
48	Comparative Evaluation of Cu(acac) ₂ and {[Cu(¼-O, O ²⁻ -NO ₃) (L-arg) (2,2'-bpy)]·NO ₃] _n as Potential Precursors of Electroless Metallization of Laser-Activated Polymer Materials. Materials, 2021, 14, 978.	1.3	1
49	Single polymer composites manufacturing methods. Polimery, 2014, 59, 769-775.	0.4	1
50	Characteristic and applications of single polymer composites. Polimery, 2015, 60, 3-11.	0.4	1
51	Autocatalytic electroless copper plating of polymeric materials. Polimery, 2017, 62, 371-379.	0.4	1
52	Impact of Accelerated Aging on the Performance Characteristics of "Green" Packaging Material of Polylactide. Advances in Science and Technology Research Journal, 2020, 14, 1-10.	0.4	1