

Mateusz Barczewski

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

1,024
citations

17
h-index

25
g-index

102
ext. papers

1,469
ext. citations

3.5
avg, IF

5.36
L-index

#	Paper	IF	Citations
89	The Effect of Manufacture Process on Mechanical Properties and Burning Behavior of Epoxy-Based Hybrid Composites.. <i>Materials</i> , 2022 , 15,	3.5	2
88	Valorization of disposable polylactide (PLA) cups by rotational molding technology: The influence of pre-processing grinding and thermal treatment procedure. <i>Polymer Testing</i> , 2022 , 107, 107481	4.5	0
87	Rotational molding of polylactide (PLA) composites filled with copper slag as a waste filler from metallurgical industry. <i>Polymer Testing</i> , 2022 , 106, 107449	4.5	3
86	Biocomposites from recycled resources as candidates for laboratory reference material to validate analytical tools used in organic compounds emissions investigation. <i>Building and Environment</i> , 2022 , 109259	6.5	0
85	Recycling of Plastics from Cable Waste from Automotive Industry in Poland as an Approach to the Circular Economy. <i>Polymers</i> , 2021 , 13,	4.5	3
84	Comparative Study of the Reinforcement Type Effect on the Thermomechanical Properties and Burning of Epoxy-Based Composites. <i>Journal of Composites Science</i> , 2021 , 5, 89	3	4
83	Insights into the Thermo-Mechanical Treatment of Brewers' Spent Grain as a Potential Filler for Polymer Composites. <i>Polymers</i> , 2021 , 13,	4.5	3
82	Fully biodegradable hybrid poly(vinyl alcohol)-based composites reinforced with flax/cotton fabric and modified with a waste filler: Thermomechanical properties. <i>Polymers and Polymer Composites</i> , 2021 , 29, 383-392	0.8	
81	Advanced SA/PVA-based hydrogel matrices with prolonged release of Aloe vera as promising wound dressings. <i>Materials Science and Engineering C</i> , 2021 , 120, 111667	8.3	15
80	Sustainable upcycling of brewers' spent grain by thermo-mechanical treatment in twin-screw extruder. <i>Journal of Cleaner Production</i> , 2021 , 285, 124839	10.3	9
79	Comparison of Various Chemical Treatments Efficiency in Relation to the Properties of Flax, Hemp Fibers and Cotton trichomes. <i>Journal of Natural Fibers</i> , 2021 , 18, 735-751	1.8	16
78	Mechanical Properties, Microstructure and Surface Quality of Polypropylene Green Composites as a Function of Sunflower Husk Waste Filler Particle Size and Content. <i>Journal of Renewable Materials</i> , 2021 , 9, 841-853	2.4	3
77	Spray-formed polyurea composites filled with basalt powder as inorganic waste filler. <i>Plastics, Rubber and Composites</i> , 2021 , 50, 276-284	1.5	3
76	Coffee Silverskin as a Multifunctional Waste Filler for High-Density Polyethylene Green Composites. <i>Journal of Composites Science</i> , 2021 , 5, 44	3	11
75	The Effect of Surface Treatment with Isocyanate and Aromatic Carbodiimide of Thermally Expanded Vermiculite Used as a Functional Filler for Polylactide-Based Composites. <i>Polymers</i> , 2021 , 13,	4.5	4
74	Tribo-Electrostatic Separation Analysis of a Beneficial Solution in the Recycling of Mixed Poly(Ethylene Terephthalate) and High-Density Polyethylene. <i>Energies</i> , 2021 , 14, 1755	3.1	5
73	Morphology, Thermo-Mechanical Properties and Biodegradability of PCL/PLA Blends Reactively Compatibilized by Different Organic Peroxides. <i>Materials</i> , 2021 , 14,	3.5	2

72	Impact Strength of Hybrid Epoxy/Basalt Composites Modified with Mineral and Natural Fillers. <i>ChemEngineering</i> , 2021 , 5, 56	2.6	4
71	The inhibiting effect of basalt powder on crystallization behavior and the structure-property relationship of nucleated polypropylene composites. <i>Polymer Testing</i> , 2021 , 103, 107372	4.5	1
70	The accelerated aging impact on polyurea spray-coated composites filled with basalt fibers, basalt powder, and halloysite nanoclay. <i>Composites Part B: Engineering</i> , 2021 , 225, 109286	10	0
69	Assessment of the Electrostatic Separation Effectiveness of Plastic Waste Using a Vision System. <i>Sensors</i> , 2020 , 20,	3.8	6
68	Effect of Basalt Powder Surface Treatments on Mechanical and Processing Properties of Polylactide-Based Composites. <i>Materials</i> , 2020 , 13,	3.5	6
67	Rotational Molding of Linear Low-Density Polyethylene Composites Filled with Wheat Bran. <i>Polymers</i> , 2020 , 12,	4.5	17
66	Polyethylene Wax Modified by Organoclay Bentonite Used in the Lost-Wax Casting Process: Processing-Structure-Property Relationships. <i>Materials</i> , 2020 , 13,	3.5	9
65	Thermo-mechanical and mechanical behavior of hybrid isotactic polypropylene glass fiber reinforced composites (GFRC) modified with calcium carbonate (CaCO ₃). <i>Polymer Engineering and Science</i> , 2020 , 60, 1588-1603	2.3	4
64	Synergistic effect of different basalt fillers and annealing on the structure and properties of polylactide composites. <i>Polymer Testing</i> , 2020 , 89, 106628	4.5	17
63	Correlation between Processing Parameters and Degradation of Different Polylactide Grades during Twin-Screw Extrusion. <i>Polymers</i> , 2020 , 12,	4.5	18
62	Mechanical, Thermal and Rheological Properties of Polyethylene-Based Composites Filled with Micrometric Aluminum Powder. <i>Materials</i> , 2020 , 13,	3.5	11
61	Fire behavior of flame retarded unsaturated polyester resin with high nitrogen content additives. <i>Polymer Testing</i> , 2020 , 84, 106379	4.5	16
60	Development of polylactide composites with improved thermomechanical properties by simultaneous use of basalt powder and a nucleating agent. <i>Polymer Composites</i> , 2020 , 41, 2947-2957	3	10
59	Milled basalt fibers as reinforcement for polyurea composite spray coatings with improved thermomechanical stability and mechanical performance. <i>Polimery</i> , 2020 , 65, 184-195	3.4	5
58	The Influence of Poly(Vinyl Alcohol) on Oil Release Behavior of Polylactide- Based Composites Filled with Linseed Cake. <i>Journal of Renewable Materials</i> , 2020 , 8, 347-363	2.4	3
57	On the impact of flax fibers as an internal layer on the properties of basalt-epoxy composites modified with silanized basalt powder. <i>Composites Communications</i> , 2020 , 20, 100360	6.7	20
56	Rheological and single screw extrusion processability studies of isotactic polypropylene composites filled with basalt powder. <i>Polymer Testing</i> , 2020 , 91, 106768	4.5	9
55	The in-line detection method of sharkskin melt flow instability during polyethylene extrusion based on pressure analysis. <i>Journal of Manufacturing Processes</i> , 2020 , 59, 153-166	5	3

54	The effect of two-step surface treatment by hydrogen peroxide and silanization of flax/cotton fabrics on epoxy-based laminates thermomechanical properties and structure. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 13813-13824	5.5	12
53	Synthesis and Characterization of Low-Cost Cresol-Based Benzoxazine Resins as Potential Binders in Abrasive Composites. <i>Materials</i> , 2020 , 13,	3.5	3
52	Crystallization of polylactide-based green composites filled with oil-rich waste fillers. <i>Journal of Polymer Research</i> , 2020 , 27, 1	2.7	4
51	The influence of oil content within lignocellulosic filler on thermal degradation kinetics and flammability of polylactide composites modified with linseed cake. <i>Polymer Composites</i> , 2020 , 41, 4503-4513	4.5	3
50	The Effect of Poly(Vinyl Chloride) Powder Addition on the Thermomechanical Properties of Epoxy Composites Reinforced with Basalt Fiber. <i>Materials</i> , 2020 , 13,	3.5	3
49	Thermal Insulation and Sound Absorption Properties of Open-Cell Polyurethane Foams Modified with Bio-Polyol Based on Used Cooking Oil. <i>Materials</i> , 2020 , 13,	3.5	10
48	Rigid polyurethane foams modified with thermoset polyester-glass fiber composite waste. <i>Polymer Testing</i> , 2020 , 81, 106190	4.5	29
47	Application of sunflower husk, hazelnut shell and walnut shell as waste agricultural fillers for epoxy-based composites: A study into mechanical behavior related to structural and rheological properties. <i>Polymer Testing</i> , 2019 , 75, 1-11	4.5	61
46	Mechanical Properties and Structure of Reactive Rotationally Molded Polyurethane - Basalt Powder Composites. <i>Lecture Notes in Mechanical Engineering</i> , 2019 , 601-609	0.4	
45	Poly(vinyl chloride) powder as a low-cost flame retardant modifier for epoxy composites. <i>International Journal of Polymer Analysis and Characterization</i> , 2019 , 24, 447-456	1.7	2
44	Improvement of mechanical properties of silica/phenolic composites and abrasive tools by modification of filler using diazonium salt with hydroxymethyl groups. <i>Polymer Testing</i> , 2019 , 75, 373-379	4.5	5
43	Basalt waste management in the production of highly effective porous polyurethane composites for thermal insulating applications. <i>Polymer Testing</i> , 2019 , 76, 90-100	4.5	45
42	Thermal Stability, Fire and Smoke Behaviour of Epoxy Composites Modified with Plant Waste Fillers. <i>Polymers</i> , 2019 , 11,	4.5	29
41	The influence of degree of fragmentation of Pinus sibirica on flammability, thermal and thermomechanical behavior of the epoxy-composites. <i>Polymer Testing</i> , 2019 , 79, 106036	4.5	10
40	Comparison of off-line, on-line and in-line measuring techniques used for determining the rheological characteristics of polyethylene composites with calcium carbonate. <i>Polimery</i> , 2019 , 64, 83-92	3.4	6
39	Influence of accelerated weathering on mechanical and thermomechanical properties of poly(lactic acid) composites with natural waste filler. <i>Polimery</i> , 2019 , 64, 119-126	3.4	5
38	Poly(lactic acid) green composites filled with linseed cake as an agricultural waste filler. Influence of oil content within the filler on the rheological behavior. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47651	2.9	12
37	Injection Molding of Highly Filled Polypropylene-based Biocomposites. Buckwheat Husk and Wood Flour Filler: A Comparison of Agricultural and Wood Industry Waste Utilization. <i>Polymers</i> , 2019 , 11,	4.5	16

36	Accelerated Weathering of Polylactide-Based Composites Filled with Linseed Cake: The Influence of Time and Oil Content within the Filler. <i>Polymers</i> , 2019 , 11,	4.5	18
35	Cork-wood hybrid filler system for polypropylene and poly(lactic acid) based injection molded composites. Structure evaluation and mechanical performance. <i>Composites Part B: Engineering</i> , 2019 , 163, 655-668	10	39
34	Basalt powder as an eco-friendly filler for epoxy composites: Thermal and thermo-mechanical properties assessment. <i>Composites Part B: Engineering</i> , 2019 , 164, 272-279	10	29
33	Utilization of linseed cake as a postagricultural functional filler for poly(lactic acid) green composites. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47152	2.9	12
32	Mechanically robust and thermally stable abrasive tools from phenolic resins reinforced with diazonium-modified zeolites. <i>Polymer Composites</i> , 2019 , 40, 3209-3219	3	7
31	Application of the Basalt Powder as a Filler for Polypropylene Composites With Improved Thermo-Mechanical Stability and Reduced Flammability. <i>Polymer Engineering and Science</i> , 2019 , 59, E71-E79	2.3	16
30	Evaluation of highly filled epoxy composites modified with walnut shell waste filler. <i>Polymer Bulletin</i> , 2018 , 75, 2511-2528	2.4	41
29	Complex modification effect of linseed cake as an agricultural waste filler used in high density polyethylene composites. <i>Iranian Polymer Journal (English Edition)</i> , 2018 , 27, 677-688	2.3	24
28	Effect of wood flour addition and modification of its surface on the properties of rotationally molded polypropylene composites. <i>Polimery</i> , 2018 , 63, 772-784	3.4	11
27	MuCell and InduMold technologies in production of high quality automotive parts from polymer materials. <i>Polimery</i> , 2018 , 63, 145-152	3.4	10
26	Rheological and Processing Properties of Poly(lactic acid) Composites Filled with Ground Chestnut Shell. <i>Porrime</i> , 2018 , 42, 267-274	1	8
25	Polyethylene green composites modified with post agricultural waste filler: thermo-mechanical and damping properties. <i>Composite Interfaces</i> , 2018 , 25, 287-299	2.3	21
24	Characterization of poly(lactic acid) biocomposites filled with chestnut shell waste. <i>Journal of Material Cycles and Waste Management</i> , 2018 , 20, 914-924	3.4	27
23	Evaluation of polypropylene hybrid composites containing glass fiber and basalt powder. <i>Journal of Polymer Engineering</i> , 2018 , 38, 281-289	1.4	20
22	Hybrid effects of basalt fibers and basalt powder on thermomechanical properties of epoxy composites. <i>Composites Part B: Engineering</i> , 2017 , 125, 157-164	10	61
21	Melt fracture and rheology of linear low density polyethylene - calcium carbonate composites. <i>Polymer Engineering and Science</i> , 2017 , 57, 998-1004	2.3	19
20	Effect of Quinacridone Pigments on Properties and Morphology of Injection Molded Isotactic Polypropylene. <i>International Journal of Polymer Science</i> , 2017 , 2017, 1-8	2.4	5
19	Application of waste bulk moulded composite (BMC) as a filler for isotactic polypropylene composites. <i>Journal of Advanced Research</i> , 2016 , 7, 373-80	13	11

18	Flow instabilities in polymer melt extrusions. Part II. Instabilities suppression and evaluation methods. <i>Polimery</i> , 2016 , 61, 248-254	3-4	3
17	Novel polypropylene nucleating agent with polyhedral oligomeric silsesquioxane core: synthesis and application. <i>Polymer International</i> , 2016 , 65, 1080-1088	3-3	13
16	Morphology and thermomechanical properties of epoxy composites highly filled with waste bulk molding compounds (BMC). <i>Journal of Polymer Engineering</i> , 2015 , 35, 805-811	1-4	8
15	Effect of heterogeneous nucleation on isotactic polypropylene-polyoxymethylene blends properties and miscibility. <i>Macromolecular Research</i> , 2015 , 23, 850-860	1-9	9
14	Thermo-rheological properties and miscibility of linear low-density polyethylene-silsesquioxane nanocomposites. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2-9	8
13	Development and Characterization of the Injection-Molded Polymer Composites Made from Bicomponent Fibers. <i>Polymer-Plastics Technology and Engineering</i> , 2015 , 54, 33-46		6
12	Flow instabilities in polymer melt extrusion. Part I. Types and characteristics of flow instabilities. <i>Polimery</i> , 2015 , 61, 612-619	3-4	4
11	Synthesis and Influence of Sodium Benzoate Silsesquioxane Based Nucleating Agent on Thermal and Mechanical Properties of Isotactic Polypropylene. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2014 , 51, 907-913	2-2	10
10	Nonisothermal crystallization of highly-filled polyolefin/calcium carbonate composites. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2-9	6
9	Thermal Stability and Flammability of Polypropylene-Silsesquioxane Nanocomposites. <i>International Journal of Polymer Analysis and Characterization</i> , 2014 , 19, 500-509	1-7	19
8	Influence of a sorbitol-based nucleating agent modified with silsesquioxanes on the non-isothermal crystallization of isotactic polypropylene. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2-9	8
7	Fabrication of the self-reinforced composites using co-extrusion technique. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2-9	11
6	Influence of heterogeneous nucleation on thermodynamic properties of isotactic polypropylene. <i>Polish Journal of Chemical Technology</i> , 2013 , 15, 71-74	1	7
5	A new method of curing epoxy resin by using bis(heptaphenylaluminosilsesquioxane) as a hardener. <i>Polimery</i> , 2013 , 58, 270-275	3-4	4
4	Processing properties of thermoplastic polymers modified by polyhedral oligomeric silsesquioxanes (POSS). <i>Polimery</i> , 2013 , 58, 805-815	3-4	15
3	Influence of the cooling rate on the non-isothermal crystallization of isotactic polypropylene modified with sorbitol derivative and silsesquioxane. <i>Polimery</i> , 2013 , 58, 920-923	3-4	6
2	Dynamic pressure analysis as a tool for determination of sharkskin instability by extrusion of molten polymers. <i>Journal of Polymer Engineering</i> , 2012 , 32, 335-341	1-4	3
1	Inhibition of Polymer Photodegradation by Incorporation of Coffee Silverskin		2

