

# Mateusz Barczewski

## List of Publications by Citations

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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 | Hybrid effects of basalt fibers and basalt powder on thermomechanical properties of epoxy composites. <i>Composites Part B: Engineering</i> , <b>2017</b> , 125, 157-164  | 10  | 61        |
| 88 | 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> , <b>2019</b> , 75, 1-11 | 4.5 | 61        |
| 87 | Basalt waste management in the production of highly effective porous polyurethane composites for thermal insulating applications. <i>Polymer Testing</i> , <b>2019</b> , 76, 90-100   | 4.5 | 45        |
| 86 | Evaluation of highly filled epoxy composites modified with walnut shell waste filler. <i>Polymer Bulletin</i> , <b>2018</b> , 75, 2511-2528   | 2.4 | 41        |
| 85 | 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> , <b>2019</b> , 163, 655-668                               | 10  | 39        |
| 84 | Thermal Stability, Fire and Smoke Behaviour of Epoxy Composites Modified with Plant Waste Fillers. <i>Polymers</i> , <b>2019</b> , 11,  | 4.5 | 29        |
| 83 | Basalt powder as an eco-friendly filler for epoxy composites: Thermal and thermo-mechanical properties assessment. <i>Composites Part B: Engineering</i> , <b>2019</b> , 164, 272-279   | 10  | 29        |
| 82 | Rigid polyurethane foams modified with thermoset polyester-glass fiber composite waste. <i>Polymer Testing</i> , <b>2020</b> , 81, 106190   | 4.5 | 29        |
| 81 | Characterization of poly(lactic acid) biocomposites filled with chestnut shell waste. <i>Journal of Material Cycles and Waste Management</i> , <b>2018</b> , 20, 914-924  | 3.4 | 27        |
| 80 | Complex modification effect of linseed cake as an agricultural waste filler used in high density polyethylene composites. <i>Iranian Polymer Journal (English Edition)</i> , <b>2018</b> , 27, 677-688  | 2.3 | 24        |
| 79 | Polyethylene green composites modified with post agricultural waste filler: thermo-mechanical and damping properties. <i>Composite Interfaces</i> , <b>2018</b> , 25, 287-299   | 2.3 | 21        |
| 78 | 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> , <b>2020</b> , 20, 100360   | 6.7 | 20        |
| 77 | Evaluation of polypropylene hybrid composites containing glass fiber and basalt powder. <i>Journal of Polymer Engineering</i> , <b>2018</b> , 38, 281-289   | 1.4 | 20        |
| 76 | Melt fracture and rheology of linear low density polyethylene - calcium carbonate composites. <i>Polymer Engineering and Science</i> , <b>2017</b> , 57, 998-1004   | 2.3 | 19        |
| 75 | Thermal Stability and Flammability of Polypropylene-Silsesquioxane Nanocomposites. <i>International Journal of Polymer Analysis and Characterization</i> , <b>2014</b> , 19, 500-509  | 1.7 | 19        |
| 74 | Correlation between Processing Parameters and Degradation of Different Polylactide Grades during Twin-Screw Extrusion. <i>Polymers</i> , <b>2020</b> , 12,  | 4.5 | 18        |
| 73 | Accelerated Weathering of Polylactide-Based Composites Filled with Linseed Cake: The Influence of Time and Oil Content within the Filler. <i>Polymers</i> , <b>2019</b> , 11,   | 4.5 | 18        |

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|----|--|-----|----|
| 72 | Rotational Molding of Linear Low-Density Polyethylene Composites Filled with Wheat Bran. <i>Polymers</i> , <b>2020</b> , 12,   | 4.5 | 17 |
| 71 | Synergistic effect of different basalt fillers and annealing on the structure and properties of polylactide composites. <i>Polymer Testing</i> , <b>2020</b> , 89, 106628  | 4.5 | 17 |
| 70 | Fire behavior of flame retarded unsaturated polyester resin with high nitrogen content additives. <i>Polymer Testing</i> , <b>2020</b> , 84, 106379  | 4.5 | 16 |
| 69 | 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> , <b>2019</b> , 11,  | 4.5 | 16 |
| 68 | 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> , <b>2019</b> , 59, E71-E79   | 2.7 | 16 |
| 67 | Comparison of Various Chemical Treatments Efficiency in Relation to the Properties of Flax, Hemp Fibers and Cotton trichomes. <i>Journal of Natural Fibers</i> , <b>2021</b> , 18, 735-751   | 1.8 | 16 |
| 66 | Processing properties of thermoplastic polymers modified by polyhedral oligomeric silsesquioxanes (POSS). <i>Polimery</i> , <b>2013</b> , 58, 805-815  | 3.4 | 15 |
| 65 | Advanced SA/PVA-based hydrogel matrices with prolonged release of Aloe vera as promising wound dressings. <i>Materials Science and Engineering C</i> , <b>2021</b> , 120, 111667   | 8.3 | 15 |
| 64 | Novel polypropylene nucleating agent with polyhedral oligomeric silsesquioxane core: synthesis and application. <i>Polymer International</i> , <b>2016</b> , 65, 1080-1088   | 3.3 | 13 |
| 63 | 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> , <b>2020</b> , 9, 13813-13824 | 5.5 | 12 |
| 62 | 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> , <b>2019</b> , 136, 47651                    | 2.9 | 12 |
| 61 | Utilization of linseed cake as a postagricultural functional filler for poly(lactic acid) green composites. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47152   | 2.9 | 12 |
| 60 | Mechanical, Thermal and Rheological Properties of Polyethylene-Based Composites Filled with Micrometric Aluminum Powder. <i>Materials</i> , <b>2020</b> , 13,  | 3.5 | 11 |
| 59 | Application of waste bulk moulded composite (BMC) as a filler for isotactic polypropylene composites. <i>Journal of Advanced Research</i> , <b>2016</b> , 7, 373-80  | 13  | 11 |
| 58 | Fabrication of the self-reinforced composites using co-extrusion technique. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a   | 2.9 | 11 |
| 57 | Effect of wood flour addition and modification of its surface on the properties of rotationally molded polypropylene composites. <i>Polimery</i> , <b>2018</b> , 63, 772-784   | 3.4 | 11 |
| 56 | Coffee Silverskin as a Multifunctional Waste Filler for High-Density Polyethylene Green Composites. <i>Journal of Composites Science</i> , <b>2021</b> , 5, 44   | 3   | 11 |
| 55 | Development of polylactide composites with improved thermomechanical properties by simultaneous use of basalt powder and a nucleating agent. <i>Polymer Composites</i> , <b>2020</b> , 41, 2947-2957   | 3   | 10 |

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|----|---|------|----|
| 54 | The influence of degree of fragmentation of <i>Pinus sibirica</i> on flammability, thermal and thermomechanical behavior of the epoxy-composites. <i>Polymer Testing</i> , <b>2019</b> , 79, 106036   | 4.5  | 10 |
| 53 | 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> , <b>2014</b> , 51, 907-913 | 2.2  | 10 |
| 52 | MuCell and InduMold technologies in production of high quality automotive parts from polymer materials. <i>Polimery</i> , <b>2018</b> , 63, 145-152   | 3.4  | 10 |
| 51 | Thermal Insulation and Sound Absorption Properties of Open-Cell Polyurethane Foams Modified with Bio-Polyol Based on Used Cooking Oil. <i>Materials</i> , <b>2020</b> , 13,   | 3.5  | 10 |
| 50 | Polyethylene Wax Modified by Organoclay Bentonite Used in the Lost-Wax Casting Process: Processing-Structure-Property Relationships. <i>Materials</i> , <b>2020</b> , 13,   | 3.5  | 9  |
| 49 | Effect of heterogeneous nucleation on isotactic polypropylene-polyoxymethylene blends properties and miscibility. <i>Macromolecular Research</i> , <b>2015</b> , 23, 850-860  | 1.9  | 9  |
| 48 | Rheological and single screw extrusion processability studies of isotactic polypropylene composites filled with basalt powder. <i>Polymer Testing</i> , <b>2020</b> , 91, 106768  | 4.5  | 9  |
| 47 | Sustainable upcycling of brewers spent grain by thermo-mechanical treatment in twin-screw extruder. <i>Journal of Cleaner Production</i> , <b>2021</b> , 285, 124839  | 10.3 | 9  |
| 46 | Morphology and thermomechanical properties of epoxy composites highly filled with waste bulk molding compounds (BMC). <i>Journal of Polymer Engineering</i> , <b>2015</b> , 35, 805-811   | 1.4  | 8  |
| 45 | 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> , <b>2014</b> , 131, n/a-n/a                               | 2.9  | 8  |
| 44 | Thermo-rheological properties and miscibility of linear low-density polyethylene-silsesquioxane nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a  | 2.9  | 8  |
| 43 | Rheological and Processing Properties of Poly(lactic acid) Composites Filled with Ground Chestnut Shell. <i>Porrime</i> , <b>2018</b> , 42, 267-274   | 1    | 8  |
| 42 | Influence of heterogeneous nucleation on thermodynamic properties of isotactic polypropylene. <i>Polish Journal of Chemical Technology</i> , <b>2013</b> , 15, 71-74  | 1    | 7  |
| 41 | Mechanically robust and thermally stable abrasive tools from phenolic resins reinforced with diazonium-modified zeolites. <i>Polymer Composites</i> , <b>2019</b> , 40, 3209-3219   | 3    | 7  |
| 40 | Assessment of the Electrostatic Separation Effectiveness of Plastic Waste Using a Vision System. <i>Sensors</i> , <b>2020</b> , 20,   | 3.8  | 6  |
| 39 | Effect of Basalt Powder Surface Treatments on Mechanical and Processing Properties of Polylactide-Based Composites. <i>Materials</i> , <b>2020</b> , 13,  | 3.5  | 6  |
| 38 | Nonisothermal crystallization of highly-filled polyolefin/calcium carbonate composites. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a  | 2.9  | 6  |
| 37 | Development and Characterization of the Injection-Molded Polymer Composites Made from Bicomponent Fibers. <i>Polymer-Plastics Technology and Engineering</i> , <b>2015</b> , 54, 33-46  |      | 6  |

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|----|---|-----|---|
| 36 | Influence of the cooling rate on the non-isothermal crystallization of isotactic polypropylene modified with sorbitol derivative and silsesquioxane. <i>Polimery</i> , <b>2013</b> , 58, 920-923  | 3.4 | 6 |
| 35 | 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> , <b>2019</b> , 64, 83-92                              | 3.4 | 6 |
| 34 | 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> , <b>2019</b> , 75, 373-379                              | 4.5 | 5 |
| 33 | Effect of Quinacridone Pigments on Properties and Morphology of Injection Molded Isotactic Polypropylene. <i>International Journal of Polymer Science</i> , <b>2017</b> , 2017, 1-8   | 2.4 | 5 |
| 32 | Influence of accelerated weathering on mechanical and thermomechanical properties of poly(lactic acid) composites with natural waste filler. <i>Polimery</i> , <b>2019</b> , 64, 119-126  | 3.4 | 5 |
| 31 | Milled basalt fibers as reinforcement for polyurea composite spray coatings with improved thermomechanical stability and mechanical performance. <i>Polimery</i> , <b>2020</b> , 65, 184-195  | 3.4 | 5 |
| 30 | Tribo-Electrostatic Separation Analysis of a Beneficial Solution in the Recycling of Mixed Poly(Ethylene Terephthalate) and High-Density Polyethylene. <i>Energies</i> , <b>2021</b> , 14, 1755   | 3.1 | 5 |
| 29 | Thermo-mechanical and mechanical behavior of hybrid isotactic polypropylene glass fiber reinforced composites (GFRC) modified with calcium carbonate (CaCO <sub>3</sub> ). <i>Polymer Engineering and Science</i> , <b>2020</b> , 60, 1588-1603 | 2.3 | 4 |
| 28 | A new method of curing epoxy resin by using bis(heptaphenylaluminosilsesquioxane) as a hardener. <i>Polimery</i> , <b>2013</b> , 58, 270-275  | 3.4 | 4 |
| 27 | Flow instabilities in polymer melt extrusion. Part I. Types and characteristics of flow instabilities. <i>Polimery</i> , <b>2015</b> , 61, 612-619  | 3.4 | 4 |
| 26 | Crystallization of polylactide-based green composites filled with oil-rich waste fillers. <i>Journal of Polymer Research</i> , <b>2020</b> , 27, 1  | 2.7 | 4 |
| 25 | Comparative Study of the Reinforcement Type Effect on the Thermomechanical Properties and Burning of Epoxy-Based Composites. <i>Journal of Composites Science</i> , <b>2021</b> , 5, 89   | 3   | 4 |
| 24 | 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> , <b>2021</b> , 13,                                   | 4.5 | 4 |
| 23 | Impact Strength of Hybrid Epoxy/Basalt Composites Modified with Mineral and Natural Fillers. <i>ChemEngineering</i> , <b>2021</b> , 5, 56   | 2.6 | 4 |
| 22 | Dynamic pressure analysis as a tool for determination of sharkskin instability by extrusion of molten polymers. <i>Journal of Polymer Engineering</i> , <b>2012</b> , 32, 335-341   | 1.4 | 3 |
| 21 | Flow instabilities in polymer melt extrusions. Part II. Instabilities suppression and evaluation methods. <i>Polimery</i> , <b>2016</b> , 61, 248-254   | 3.4 | 3 |
| 20 | Recycling of Plastics from Cable Waste from Automotive Industry in Poland as an Approach to the Circular Economy. <i>Polymers</i> , <b>2021</b> , 13,   | 4.5 | 3 |
| 19 | Rotational molding of polylactide (PLA) composites filled with copper slag as a waste filler from metallurgical industry. <i>Polymer Testing</i> , <b>2022</b> , 106, 107449  | 4.5 | 3 |

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|----|--|-----|---|
| 18 | The Influence of Poly(Vinyl Alcohol) on Oil Release Behavior of Polylactide- Based Composites Filled with Linseed Cake. <i>Journal of Renewable Materials</i> , <b>2020</b> , 8, 347-363   | 2.4 | 3 |
| 17 | The in-line detection method of sharkskin melt flow instability during polyethylene extrusion based on pressure analysis. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 59, 153-166                                      | 5   | 3 |
| 16 | Synthesis and Characterization of Low-Cost Cresol-Based Benzoxazine Resins as Potential Binders in Abrasive Composites. <i>Materials</i> , <b>2020</b> , 13,   | 3.5 | 3 |
| 15 | 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> , <b>2020</b> , 41, 4503-4513            | 4.5 | 3 |
| 14 | The Effect of Poly(Vinyl Chloride) Powder Addition on the Thermomechanical Properties of Epoxy Composites Reinforced with Basalt Fiber. <i>Materials</i> , <b>2020</b> , 13,   | 3.5 | 3 |
| 13 | Insights into the Thermo-Mechanical Treatment of Brewers' Spent Grain as a Potential Filler for Polymer Composites. <i>Polymers</i> , <b>2021</b> , 13,  | 4.5 | 3 |
| 12 | 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> , <b>2021</b> , 9, 841-853 | 2.4 | 3 |
| 11 | Spray-formed polyurea composites filled with basalt powder as inorganic waste filler. <i>Plastics, Rubber and Composites</i> , <b>2021</b> , 50, 276-284   | 1.5 | 3 |
| 10 | Poly(vinyl chloride) powder as a low-cost flame retardant modifier for epoxy composites. <i>International Journal of Polymer Analysis and Characterization</i> , <b>2019</b> , 24, 447-456   | 1.7 | 2 |
| 9  | The Effect of Manufacture Process on Mechanical Properties and Burning Behavior of Epoxy-Based Hybrid Composites.. <i>Materials</i> , <b>2022</b> , 15,  | 3.5 | 2 |
| 8  | Inhibition of Polymer Photodegradation by Incorporation of Coffee Silverskin   |     | 2 |
| 7  | Morphology, Thermo-Mechanical Properties and Biodegradability of PCL/PLA Blends Reactively Compatibilized by Different Organic Peroxides. <i>Materials</i> , <b>2021</b> , 14,   | 3.5 | 2 |
| 6  | The inhibiting effect of basalt powder on crystallization behavior and the structure-property relationship of nucleated polypropylene composites. <i>Polymer Testing</i> , <b>2021</b> , 103, 107372                                 | 4.5 | 1 |
| 5  | Valorization of disposable polylactide (PLA) cups by rotational molding technology: The influence of pre-processing grinding and thermal treatment procedure. <i>Polymer Testing</i> , <b>2022</b> , 107, 107481                     | 4.5 | 0 |
| 4  | The accelerated aging impact on polyurea spray-coated composites filled with basalt fibers, basalt powder, and halloysite nanoclay. <i>Composites Part B: Engineering</i> , <b>2021</b> , 225, 109286                                | 10  | 0 |
| 3  | 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> , <b>2022</b> , 109259         | 6.5 | 0 |
| 2  | Mechanical Properties and Structure of Reactive Rotationally Molded Polyurethane - Basalt Powder Composites. <i>Lecture Notes in Mechanical Engineering</i> , <b>2019</b> , 601-609  | 0.4 |   |
| 1  | 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> , <b>2021</b> , 29, 383-392 | 0.8 |   |

