

Jacek Andrzejewski

List of Publications by Citations

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61
papers

1,132
citations

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h-index

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g-index

62
ext. papers

1,532
ext. citations

4.3
avg, IF

5.26
L-index

#	Paper	IF	Citations
61	Biodegradable compatibilized polymer blends for packaging applications: A literature review. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45726	2.9	139
60	Improving the Impact Strength and Heat Resistance of 3D Printed Models: Structure, Property, and Processing Correlations during Fused Deposition Modeling (FDM) of Poly(Lactic Acid). <i>ACS Omega</i> , 2018 , 3, 4400-4411	3.9	100
59	Biodegradable Poly(butylene succinate) and Poly(butylene adipate-co-terephthalate) Blends: Reactive Extrusion and Performance Evaluation. <i>Journal of Polymers and the Environment</i> , 2014 , 22, 336-349	4.5	72
58	Injection Molded Sustainable Biocomposites From Poly(butylene succinate) Bioplastic and Perennial Grass. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2767-2776	8.3	62
57	Maple leaf (<i>Acer</i> sp.) extract mediated green process for the functionalization of ZnO powders with silver nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 113, 169-75	6	45
56	Oxidative acid treatment and characterization of new biocarbon from sustainable Miscanthus biomass. <i>Science of the Total Environment</i> , 2016 , 550, 241-247	10.2	42
55	Biocomposite consisting of miscanthus fiber and biodegradable binary blend matrix: compatibilization and performance evaluation. <i>RSC Advances</i> , 2017 , 7, 27538-27548	3.7	39
54	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
53	Electrospun green fibres from lignin and chitosan: a novel polycomplexation process for the production of lignin-based fibres. <i>Journal of Materials Science</i> , 2014 , 49, 7949-7958	4.3	32
52	Polycarbonate biocomposites reinforced with a hybrid filler system of recycled carbon fiber and biocarbon: Preparation and thermomechanical characterization. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46449	2.9	28
51	Biodegradable Green Composites from Distiller's Dried Grains with Solubles (DDGS) and a Polyhydroxy(butyrate-co-valerate) (PHBV)-Based Bioplastic. <i>Macromolecular Materials and Engineering</i> , 2011 , 296, 1035-1045	3.9	28
50	Biodegradable biocomposites from poly(butylene adipate-co-terephthalate) and miscanthus: Preparation, compatibilization, and performance evaluation. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45448	2.9	27
49	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
48	Evaluation of glass transition temperature of PVC/POSS nanocomposites. <i>Composites Science and Technology</i> , 2015 , 117, 398-403	8.6	26
47	Sustainable composites from poly(3-hydroxybutyrate) (PHB) bioplastic and agave natural fibre. <i>Green Chemistry</i> , 2020 , 22, 3906-3916	10	26
46	Carbon nanotubes from renewable feedstocks: A move toward sustainable nanofabrication. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	26
45	Development of Toughened Blends of Poly(lactic acid) and Poly(butylene adipate-co-terephthalate) for 3D Printing Applications: Compatibilization Methods and Material Performance Evaluation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6576-6589	8.3	25

44	Development and characterization of poly(ethylene terephthalate) based injection molded self-reinforced composites. Direct reinforcement by overmolding the composite inserts. <i>Materials and Design</i> , 2018 , 153, 273-286	8.1	22
43	Polypropylene composites obtained from self-reinforced hybrid fiber system. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	21
42	Rotational Molding of Linear Low-Density Polyethylene Composites Filled with Wheat Bran. <i>Polymers</i> , 2020 , 12,	4.5	17
41	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
40	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
39	Processing properties of thermoplastic polymers modified by polyhedral oligomeric silsesquioxanes (POSS). <i>Polimery</i> , 2013 , 58, 805-815	3.4	15
38	Improving the Toughness and Thermal Resistance of Polyoxymethylene/Poly(lactic acid) Blends: Evaluation of Structure-Properties Correlation for Reactive Processing. <i>Polymers</i> , 2020 , 12,	4.5	14
37	Microscopic, structural, and electrical characterization of the carbonaceous materials synthesized from various lignin feedstocks. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	14
36	Sustainable biocarbon as an alternative of traditional fillers for poly(butylene terephthalate)-based composites: Thermo-oxidative aging and durability. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47722 ^{2.9}	2.9	13
35	Reactive compatibilization and performance evaluation of miscanthus biofiber reinforced poly(hydroxybutyrate-co-hydroxyvalerate) biocomposites. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	12
34	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
33	Synthesis of Shape Memory Poly(glycerol sebacate)-Stearate Polymer. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1600294	3.9	11
32	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
31	Melt Processing and Characterization of Bionanocomposites Made from Poly(butylene succinate) Bioplastic and Carbon Black. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 118-126	3.9	10
30	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
29	Thermal, mechanical, and morphological investigation of injection molded poly(trimethylene terephthalate)/carbon fiber composites. <i>Polymer Composites</i> , 2012 , 33, 1933-1940	3	10
28	Development of hybrid composites reinforced with biocarbon/carbon fiber system. The comparative study for PC, ABS and PC/ABS based materials. <i>Composites Part B: Engineering</i> , 2020 , 200, 108319	10	10
27	Effect of heterogeneous nucleation on isotactic polypropylene-polyoxymethylene blends properties and miscibility. <i>Macromolecular Research</i> , 2015 , 23, 850-860	1.9	9

26	The influence of processing conditions on the mechanical properties and structure of poly(ethylene terephthalate) self-reinforced composites. <i>Journal of Thermoplastic Composite Materials</i> , 2016 , 29, 1194-1209	1.9	8
25	Rotational molding of biocomposites with addition of buckwheat husk filler. Structure-property correlation assessment for materials based on polyethylene (PE) and poly(lactic acid) PLA. <i>Composites Part B: Engineering</i> , 2020 , 202, 108410	10	8
24	Microwave Enhanced Foaming of Carbon Black Filled Polypropylene. <i>Frontiers in Forests and Global Change</i> , 2011 , 30, 201-214	1.6	7
23	A Review on Current Status of Biochar Uses in Agriculture. <i>Molecules</i> , 2021 , 26,	4.8	7
22	Effect of Basalt Powder Surface Treatments on Mechanical and Processing Properties of Polylactide-Based Composites. <i>Materials</i> , 2020 , 13,	3.5	6
21	Experimental Investigation on Machinability of Polypropylene Reinforced with Miscanthus Fibers and Biochar. <i>Materials</i> , 2020 , 13,	3.5	6
20	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
19	Development of Thermal Resistant FDM Printed Blends. The Preparation of GPET/PC Blends and Evaluation of Material Performance. <i>Materials</i> , 2020 , 13,	3.5	5
18	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
17	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
16	The Influence of the Hybridization Process on the Mechanical and Thermal Properties of Polyoxymethylene (POM) Composites with the Use of a Novel Sustainable Reinforcing System Based on Biocarbon and Basalt Fiber (BC/BF). <i>Materials</i> , 2020 , 13,	3.5	5
15	Development of Toughened Flax Fiber Reinforced Composites. Modification of Poly(lactic acid)/Poly(butylene adipate-co-terephthalate) Blends by Reactive Extrusion Process. <i>Materials</i> , 2021 , 14,	3.5	5
14	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
13	Binary blends of poly(butylene adipate-co-terephthalate) and poly(butylene succinate): A new matrix for biocomposites applications 2015 ,		4
12	Effect of jute fibers on morphological characteristics and properties of thermoplastic starch/biodegradable polyester blend. <i>Cellulose</i> , 2021 , 28, 5513	5.5	4
11	Rigid Polyurethane Foams Modified with Biochar. <i>Materials</i> , 2021 , 14,	3.5	4
10	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
9	Preparation of hybrid poly(lactic acid)/flax composites by the insert overmolding process: Evaluation of mechanical performance and thermomechanical properties. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49646	2.9	3

8	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
7	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
6	Preparation and Characterization of the Injection Molded Polymer Composites Based on Natural/Synthetic Fiber Reinforcement. <i>Lecture Notes in Mechanical Engineering</i> , 2019 , 473-484	0.4	1
5	Thermal Properties of Polymer-Metal Composites 2014 ,		1
4	(Bio)degradable biochar composites [Studies on degradation and electrostatic properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022 , 275, 115515	3.1	1
3	The Use of Agricultural Waste in the Modification of Poly(lactic acid)-Based Composites Intended for 3D Printing Applications. The Use of Toughened Blend Systems to Improve Mechanical Properties. <i>Journal of Composites Science</i> , 2021 , 5, 253	3	1
2	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
1	A comparative study of biocarbon reinforced polyoxymethylene and polyamide: Materials performance and durability. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022 , 152, 106715	8.4	0