Deborah Mielewski

List of Publications by Year
in descending order

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36 papers	1,049 citations	394421 19 h-index	414414 32 g-index
36 all docs	36 docs citations	36 times ranked	1252 citing authors

#	Article	IF	Citations
1	A Study on Biocomposites from Recycled Newspaper Fiber and Poly(lactic acid). Industrial & Engineering Chemistry Research, 2005, 44, 5593-5601.	3.7	236
2	Exfoliation and dispersion enhancement in polypropylene nanocomposites by in-situ melt phase ultrasonication. Polymer Engineering and Science, 2004, 44, 1773-1782.	3.1	87
3	Sustainable composites from poly(3-hydroxybutyrate) (PHB) bioplastic and agave natural fibre. Green Chemistry, 2020, 22, 3906-3916.	9.0	51
4	High strain-rate behavior of natural fiber-reinforced polymer composites. Journal of Composite Materials, 2012, 46, 1051-1065.	2.4	48
5	Ocean plastics: environmental implications and potential routes for mitigation â€“ a perspective. RSC Advances, 2021, 11, 21447-21462.	3.6	48
6	Experimental Design of Sustainable 3D-Printed Poly(Lactic Acid)/Biobased Poly(Butylene Succinate) Blends via Fused Deposition Modeling. ACS Sustainable Chemistry and Engineering, 2019, 7, 14460-14470.	6.7	43
7	Flexible polyurethane foams formulated with polyols derived from waste carbon dioxide. Journal of Applied Polymer Science, 2016, 133, .	2.6	38
8	Hybrid celluloseâ€inorganic reinforcement polypropylene composites: Lightweight materials for automotive applications. Polymer Composites, 2020, 41, 1074-1089.	4.6	34
9	Weld line morphology of injection molded polypropylene. Polymer Engineering and Science, 1998, 38, 2020-2028.	3.1	32
10	Hybrid Cellulose-Glass Fiber Composites for Automotive Applications. Materials, 2019, 12, 3189.	2.9	32
11	Photodegradation and photostabilization of urethane crosslinked coatings. Industrial & Engineering Chemistry Research, 1991, 30, 2482-2487.	3.7	31
12	Processing and Characterization of Thermally Cross-Linkable Poly[p-phenyleneterephthalamide-co-p-1,2-dihydrocyclobutaphenyleneterephthalamide] (PPTA-co-XTA) Copolymer Fibers. Macromolecules, 1995, 28, 3301-3312.	4.8	29
13	Sustainable Lightweight Insulation Materials from Textile-Based Waste for the Automobile Industry. Materials, 2021, 14, 1241.	2.9	28
14	End groups in acrylic copolymers. 2. Mechanisms of incorporation of end groups and relationship to photoinitiation rates. Macromolecules, 1988, 21, 1604-1607.	4.8	27
15	A novel approach to paint sludge recycling: Reclaiming of paint sludge components as ceramic composites and their applications in reinforcement of metals and polymers,. Journal of Materials Research, 1998, 13, 53-60.	2.6	27
16	Strategy To Improve Printability of Renewable Resource-Based Engineering Plastic Tailored for FDM Applications. ACS Omega, 2019, 4, 20297-20307.	3.5	25
17	Closed-loop recycling of polyamide12 powder from selective laser sintering into sustainable composites. Journal of Cleaner Production, 2018, 195, 765-772.	9.3	24
18	A case for closed-loop recycling of post-consumer PET for automotive foams. Waste Management, 2018, 71, 97-108.	7.4	23

#	Article	IF	Citations
19	Heat-treated blue agave fiber composites. Composites Part B: Engineering, 2019, 165, 712-724.	12.0	22
20	Flexible polyurethane foams reinforced with organic and inorganic nanofillers. Journal of Applied Polymer Science, 2021, 138, 49983.	2.6	20
21	Blue-Agave Fiber-Reinforced Polypropylene Composites for Automotive Applications. BioResources, 2017, 13, .	1.0	17
22	Graphene oxide incorporated waste wool/PAN hybrid fibres. Scientific Reports, 2021, 11, 12068.	3.3	17
23	Rate dependencies and energy absorption characteristics of nanoreinforced, biofiber, and microcellular polymer composites. Polymer Composites, 2011, 32, 1423-1429.	4.6	16
24	Effects of soy-based oils on the tensile behavior of EPDM rubber. Polymer Testing, 2015, 46, 33-40.	4.8	15
25	Synthesis and characterization of novel nitrogen doped biocarbons from distillers dried grains with solubles (DDGS) for supercapacitor applications. Bioresource Technology Reports, 2020, 9, 100375.	2.7	12
26	Biobased flexible polyurethane foams manufactured from lactideâ€based polyesterâ€ether polyols for automotive applications. Journal of Applied Polymer Science, 2021, 138, 50690.	2.6	12
27	Mechanical behavior of microcellular, natural fiber reinforced composites at various strain rates and temperatures. Polymer Testing, 2014, 37, 148-155.	4.8	11
28	Hybrid composites with engineered polysaccharides for automotive lightweight. Composites Part C: Open Access, 2022, 7, 100222.	3.2	10
29	Effect of a Small Amount of Synthetic Fiber on Performance of Biocarbonâ€Filled Nylonâ€Based Hybrid Biocomposites. Macromolecular Materials and Engineering, 2021, 306, 2000680.	3.6	9
30	A Facile Approach of Fabricating Electrically Conductive Knitted Fabrics Using Graphene Oxide and Textile-Based Waste Material. Polymers, 2021, 13, 3003.	4.5	8
31	Improving Thermal Reprocessability of Commercial Flexible Polyurethane Foam by Vitrimer Modification of the Hard Segments. ACS Applied Polymer Materials, 2022, 4, 5056-5067.	4.4	8
32	Biocarbon: A lightweight, functional filler for underâ€theâ€hood automotive composites. Polymer Composites, 2022, 43, 2034-2046.	4.6	4
33	Outgassing Phenomenon in Reaction Injection Molded Parts. Journal of Reinforced Plastics and Composites, 1993, 12, 1239-1249.	3.1	2
34	Estimation of diffusion and solubility coefficients for water and CO2 in reaction injection molded parts. Polymer Composites, 1996, 17, 649-655.	4.6	2
35	Using Nitroxide Decay to Study the Photooxidation Kinetics of Automotive Topcoat Enamels. Free Radical Research Communications, 1990, 10, 123-133.	1.8	1
36	Reactions of unconverted isocyanate in molded RIM parts and their implications to outgassing. Polymer Composites, 1996, 17, 656-665.	4.6	0