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Design of recycling system for poly(methyl methacrylate) (PMMA). Part 2: process hazards and material flow analysis

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International Journal of Life Cycle Assessment, 2014, 19, 307-319.

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#	Paper	IF	Citations
21	Recycling of electronic displays: Analysis of pre-processing and potential ecodesign improvements. <i>Resources, Conservation and Recycling</i> , 2014 , 92, 158-171	11.9	62
20	A scenario analysis of future energy systems based on an energy flow model represented as functionals of technology options. <i>Applied Energy</i> , 2014 , 132, 586-601	10.7	28
19	Challenges for Model-Based Life Cycle Inventories and Impact Assessment in Early to Basic Process Design Stages. 2016 , 295-326		3
18	Circular economy design considerations for research and process development in the chemical sciences. <i>Green Chemistry</i> , 2016 , 18, 3914-3934	10	190
17	Preparation and characterization of recycled blends using poly (vinyl chloride) and poly(methyl methacrylate) recovered from waste electrical and electronic equipments. <i>Journal of Cleaner Production</i> , 2017 , 149, 863-873	10.3	27
16	Greenhouse gas emissions and socioeconomic effects of biomass-derived products based on structural path and life cycle analyses: A case study of polyethylene and polypropylene in Japan. <i>Journal of Cleaner Production</i> , 2017 , 167, 289-305	10.3	17
15	Investigation into the mechanical and thermal properties of poly(methyl methacrylate) recovered from light guidance panels with a focus on future remanufacturing and sustainable waste management. <i>Journal of Remanufacturing</i> , 2017 , 7, 217-233	2.6	13
14	Preparation of Poly (vinyl chloride) / Poly(methyl methacrylate) Recycled Blends: Effect of Varied Concentration of PVC and PMMA in Stability of PVC Phase on the Recycled Blends. <i>Materials Today: Proceedings</i> , 2018 , 5, 8899-8907	1.4	7
13	Effects of nano-silicon dioxide surface modification on the morphology and mechanical properties of ABS/PMMA blends. <i>Journal of Polymer Engineering</i> , 2018 , 38, 617-623	1.4	
12	Waste Polymethyl Methacrylate (PMMA): Recycling and High-Yield Monomer Recovery. 2018 , 1-33		0
11	Configuration of Materially Retained Carbon in Our Society: A WIO-MFA-Based Approach for Japan. <i>Environmental Science & Technology</i> , 2018 , 52, 3899-3907	10.3	11
10	Influence of acrylonitrile butadiene rubber on recyclability of blends prepared from poly(vinyl chloride) and poly(methyl methacrylate). <i>Waste Management and Research</i> , 2018 , 36, 495-504	4	6
9	Waste Polymethyl Methacrylate (PMMA): Recycling and High-Yield Monomer Recovery. 2019 , 2977-3009		3
8	Life Cycle Assessment of Resource Recovery from Waste Electrical and Electronic Equipment: A Case Study of Tantalum Recovery by Chain-Using Drum-Typed Impact Mill. <i>Kagaku Kogaku Ronbunshu</i> , 2019 , 45, 244-252	0.4	4
7	Comparative Eco-Profiles of Polyethylene Terephthalate (PET) and Polymethyl Methacrylate (PMMA) Using Life Cycle Assessment. <i>Journal of Polymers and the Environment</i> , 2021 , 29, 418-428	4.5	2
6	Quantitative Sustainability Assessment of Flow Chemistry From Simple Metrics to Holistic Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 9508-9540	8.3	9
5	Activity and Data Models for Process Assessment Considering Sustainability. <i>Kagaku Kogaku Ronbunshu</i> , 2014 , 40, 211-223	0.4	9

4	Defining Requirements on Technology Systems Assessment from Life Cycle Perspectives: Cases on Recycling of Photovoltaic and Secondary Batteries. <i>International Journal of Automation Technology</i> , 2020 , 14, 890-908	0.8	4
3	Roles and Challenges of Bioplastics Specified by Life Cycle Thinking. <i>Journal of Life Cycle Assessment Japan</i> , 2022 , 18, 11-20	0.1	0
2	Fluidized bed poly(methyl methacrylate) thermolysis to methyl methacrylate followed by catalytic hydrolysis to methacrylic acid. <i>Applied Catalysis A: General</i> , 2022 , 638, 118637	5.1	0
1	Visible Light Induced Degradation of Poly(methyl methacrylate- co -methyl β -chloro acrylate) Copolymer at Ambient Temperature.		0