Maciej W Guzik

List of Publications by Year in descending order

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MACIEL W CUIZIK

#	Article	IF	CITATIONS
1	Carbon-Rich Wastes as Feedstocks for Biodegradable Polymer (Polyhydroxyalkanoate) Production Using Bacteria. Advances in Applied Microbiology, 2013, 84, 139-200.	1.3	147
2	Conversion of grass biomass into fermentable sugars and its utilization for medium chain length polyhydroxyalkanoate (mcl-PHA) production by Pseudomonas strains. Bioresource Technology, 2013, 150, 202-209.	4.8	129
3	Conversion of post consumer polyethylene to the biodegradable polymer polyhydroxyalkanoate. Applied Microbiology and Biotechnology, 2014, 98, 4223-4232.	1.7	102
4	Medium chain length polyhydroxyalkanoate (mcl-PHA) production from volatile fatty acids derived from the anaerobic digestion of grass. Applied Microbiology and Biotechnology, 2014, 98, 611-620.	1.7	68
5	High cell density cultivation of <i>Pseudomonas putida</i> KT2440 using glucose without the need for oxygen enriched air supply. Biotechnology and Bioengineering, 2015, 112, 725-733.	1.7	53
6	Polyhydroxyalkanoate-based 3-hydroxyoctanoic acid and its derivatives as a platform of bioactive compounds. Applied Microbiology and Biotechnology, 2016, 100, 161-172.	1.7	50
7	How much of antibiotics can enter surface water with treated wastewater and how it affects the resistance of waterborne bacteria: A case study of the BiaÅ,ka river sewage treatment plant. Environmental Research, 2020, 191, 110037.	3.7	49
8	Lactose esters: synthesis and biotechnological applications. Critical Reviews in Biotechnology, 2018, 38, 245-258.	5.1	41
9	How sustainable are biopolymers? Findings from a life cycle assessment of polyhydroxyalkanoate production from rapeseed-oil derivatives. Science of the Total Environment, 2020, 749, 141279.	3.9	32
10	Polyhydroxyalkanoate-derived hydrogen-bond donors for the synthesis of new deep eutectic solvents. Green Chemistry, 2019, 21, 3116-3126.	4.6	29
11	Structural, topographical, and mechanical characteristics of purified polyhydroxyoctanoate polymer. Journal of Applied Polymer Science, 2019, 136, 47192.	1.3	28
12	What Has Been Trending in the Research of Polyhydroxyalkanoates? A Systematic Review. Frontiers in Bioengineering and Biotechnology, 2020, 8, 959.	2.0	26
13	Robust process for high yield conversion of non-degradable polyethylene to a biodegradable plastic using a chemo-biotechnological approach. Waste Management, 2021, 135, 60-69.	3.7	23
14	Combining amino acids and carbohydrates into readily biodegradable, task specific ionic liquids. RSC Advances, 2020, 10, 18355-18359.	1.7	22
15	Fed-batch strategies using butyrate for high cell density cultivation of Pseudomonas putida and its use as a biocatalyst. Applied Microbiology and Biotechnology, 2014, 98, 9217-9228.	1.7	21
16	Novel bioresorbable tricalcium phosphate/polyhydroxyoctanoate (TCP/PHO) composites as scaffolds for bone tissue engineering applications. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 98, 235-245.	1.5	20
17	Identification and characterization of an acyl-CoA dehydrogenase from Pseudomonas putida KT2440 that shows preference towards medium to long chain length fatty acids. Microbiology (United) Tj ETQq1 1 0.	78431047rgBT	/Overlock 10
18	The chain length of biologically produced (R)-3-hydroxyalkanoic acid affects biological activity and structure of anti-cancer peptides. Journal of Biotechnology, 2015, 204, 7-12.	1.9	15

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19	COVID-19 lockdown shows how much natural mountain regions are affected by heavy tourism. Science of the Total Environment, 2022, 806, 151355.	3.9	15
20	The effect of polyphosphate kinase gene deletion on polyhydroxyalkanoate accumulation and carbon metabolism in <i><scp>P</scp>seudomonas putida</i> â€ <scp>KT</scp> 2440. Environmental Microbiology Reports, 2013, 5, 740-746.	1.0	14
21	Functionalized tricalcium phosphate and poly(3-hydroxyoctanoate) derived composite scaffolds as platforms for the controlled release of diclofenac. Ceramics International, 2021, 47, 3876-3883.	2.3	13
22	Cellular architecture and migration behavior of fibroblast cells on polyhydroxyoctanoate (PHO): A natural polymer of bacterial origin. Biopolymers, 2019, 110, e23324.	1.2	12
23	Polyhydroxyalkanoate/Antifungal Polyene Formulations with Monomeric Hydroxyalkanoic Acids for Improved Antifungal Efficiency. Antibiotics, 2021, 10, 737.	1.5	12
24	Influence of Chemical Modifications of Polyhydroxyalkanoate-Derived Fatty Acids on Their Antimicrobial Properties. Catalysts, 2019, 9, 510.	1.6	11
25	Physicochemical and Biological Characterisation of Diclofenac Oligomeric Poly(3-hydroxyoctanoate) Hybrids as β-TCP Ceramics Modifiers for Bone Tissue Regeneration. International Journal of Molecular Sciences, 2020, 21, 9452.	1.8	11
26	Silver Decorated βTCP-Poly(3hydroxybutyrate) Scaffolds for Bone Tissue Engineering. Materials, 2021, 14, 4227.	1.3	10
27	Investigation of quaternary structure of aggregating 3-ketosteroid dehydrogenase from Sterolibacterium denitrificans: In the pursuit of consensus of various biophysical techniques. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 1027-1039.	1.1	8
28	Insights into In Vitro Wound Closure on Two Biopolyesters—Polylactide and Polyhydroxyoctanoate. Materials, 2020, 13, 2793.	1.3	8
29	Novel Biocompatible Polymers for Biomedical Applications. Biophysical Journal, 2018, 114, 363a.	0.2	7
30	Hollow silica microspheres as robust immobilization carriers. Bioorganic Chemistry, 2019, 93, 102813.	2.0	7
31	Polyhydroxyalkanoates, bacterially synthesized polymers, as a source of chemical compounds for the synthesis of advanced materials and bioactive molecules. Applied Microbiology and Biotechnology, 2021, 105, 7555-7566.	1.7	7
32	Vimentin Association with Nuclear Grooves in Normal MEF 3T3 Cells. International Journal of Molecular Sciences, 2020, 21, 7478.	1.8	6
33	In Search of Effective Anticancer Agents—Novel Sugar Esters Based on Polyhydroxyalkanoate Monomers. International Journal of Molecular Sciences, 2021, 22, 7238.	1.8	6
34	A study on the structure, mechanism, and biochemistry of kanamycin B dioxygenase (KanJ)—an enzyme with a broad range of substrates. FEBS Journal, 2021, 288, 1366-1386.	2.2	5
35	A polyhydroxyalkanoates bioprocess improvement case study based on four fedâ€batch feeding strategies. Microbial Biotechnology, 2022, 15, 996-1006.	2.0	4
36	Physical properties of biomass-derived novel natural deep eutectic solvents based on choline chloride and (R)-3-hydroxyacids. Journal of Molecular Liquids, 2020, 315, 113680.	2.3	3

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37	Socio-economic Importance of Biomaterials in the Transition to the Circular Economy Model. SHS Web of Conferences, 2021, 92, 05029.	0.1	2
38	Vimentin Cytoskeleton Architecture Analysis on Polylactide and Polyhydroxyoctanoate Substrates for Cell Culturing. International Journal of Molecular Sciences, 2021, 22, 6821.	1.8	2