Maciej W Guzik

List of Publications by Year
in descending order

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38 papers	1,036 citations	471509 17 h-index	434195 31 g-index
39 all docs	39 docs citations	39 times ranked	1308 citing authors

#	Article	IF	Citations
1	A polyhydroxyalkanoates bioprocess improvement case study based on four fedâ€batch feeding strategies. Microbial Biotechnology, 2022, 15, 996-1006.	4.2	4
2	COVID-19 lockdown shows how much natural mountain regions are affected by heavy tourism. Science of the Total Environment, 2022, 806, 151355.	8.0	15
3	A study on the structure, mechanism, and biochemistry of kanamycin B dioxygenase (KanJ)â€"an enzyme with a broad range of substrates. FEBS Journal, 2021, 288, 1366-1386.	4.7	5
4	Functionalized tricalcium phosphate and poly(3-hydroxyoctanoate) derived composite scaffolds as platforms for the controlled release of diclofenac. Ceramics International, 2021, 47, 3876-3883.	4.8	13
5	Socio-economic Importance of Biomaterials in the Transition to the Circular Economy Model. SHS Web of Conferences, 2021, 92, 05029.	0.2	2
6	Vimentin Cytoskeleton Architecture Analysis on Polylactide and Polyhydroxyoctanoate Substrates for Cell Culturing. International Journal of Molecular Sciences, 2021, 22, 6821.	4.1	2
7	Polyhydroxyalkanoate/Antifungal Polyene Formulations with Monomeric Hydroxyalkanoic Acids for Improved Antifungal Efficiency. Antibiotics, 2021, 10, 737.	3.7	12
8	In Search of Effective Anticancer Agentsâ€"Novel Sugar Esters Based on Polyhydroxyalkanoate Monomers. International Journal of Molecular Sciences, 2021, 22, 7238.	4.1	6
9	Silver Decorated Î²TCP-Poly(3hydroxybutyrate) Scaffolds for Bone Tissue Engineering. Materials, 2021, 14, 4227.	2.9	10
10	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.	3.6	7
11	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.	7.4	23
12	Vimentin Association with Nuclear Grooves in Normal MEF 3T3 Cells. International Journal of Molecular Sciences, 2020, 21, 7478.	4.1	6
13	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‚a river sewage treatment plant. Environmental Research, 2020, 191, 110037.	7.5	49
14	What Has Been Trending in the Research of Polyhydroxyalkanoates? A Systematic Review. Frontiers in Bioengineering and Biotechnology, 2020, 8, 959.	4.1	26
15	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.	8.0	32
16	Physicochemical and Biological Characterisation of Diclofenac Oligomeric Poly(3-hydroxyoctanoate) Hybrids as Î²-TCP Ceramics Modifiers for Bone Tissue Regeneration. International Journal of Molecular Sciences, 2020, 21, 9452.	4.1	11
17	Combining amino acids and carbohydrates into readily biodegradable, task specific ionic liquids. RSC Advances, 2020, 10, 18355-18359.	3.6	22
18	Insights into In Vitro Wound Closure on Two Biopolyestersâ€"Polylactide and Polyhydroxyoctanoate. Materials, 2020, 13, 2793.	2.9	8

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19	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.	4.9	3
20	Cellular architecture and migration behavior of fibroblast cells on polyhydroxyoctanoate (PHO): A natural polymer of bacterial origin. Biopolymers, 2019, 110, e23324.	2.4	12
21	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.	3.1	20
22	Influence of Chemical Modifications of Polyhydroxyalkanoate-Derived Fatty Acids on Their Antimicrobial Properties. Catalysts, 2019, 9, 510.	3.5	11
23	Polyhydroxyalkanoate-derived hydrogen-bond donors for the synthesis of new deep eutectic solvents. Green Chemistry, 2019, 21, 3116-3126.	9.0	29
24	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.	2.4	8
25	Hollow silica microspheres as robust immobilization carriers. Bioorganic Chemistry, 2019, 93, 102813.	4.1	7
26	Structural, topographical, and mechanical characteristics of purified polyhydroxyoctanoate polymer. Journal of Applied Polymer Science, 2019, 136, 47192.	2.6	28
27	Novel Biocompatible Polymers for Biomedical Applications. Biophysical Journal, 2018, 114, 363a.	0.5	7
28	Lactose esters: synthesis and biotechnological applications. Critical Reviews in Biotechnology, 2018, 38, 245-258.	9.0	41
29	Polyhydroxyalkanoate-based 3-hydroxyoctanoic acid and its derivatives as a platform of bioactive compounds. Applied Microbiology and Biotechnology, 2016, 100, 161-172.	3.6	50
30	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.	3.8	15
31	High cell density cultivation of Pseudomonas putida KT2440 using glucose without the need for oxygen enriched air supply. Biotechnology and Bioengineering, 2015, 112, 725-733.	3.3	53
32	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 ETQq0 0 0 rgBT /Overlock 10 Tf 50 21		18
33	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.	3.6	68
34	Conversion of post consumer polyethylene to the biodegradable polymer polyhydroxyalkanoate. Applied Microbiology and Biotechnology, 2014, 98, 4223-4232.	3.6	102
35	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.	3.6	21
36	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.	9.6	129

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37	The effect of polyphosphate kinase gene deletion on polyhydroxyalkanoate accumulation and carbon metabolism in <scp>P</scp>seudomonas putidaâ€…<scp>KT</scp>2440. Environmental Microbiology Reports, 2013, 5, 740-746.	2.4	14
38	Carbon-Rich Wastes as Feedstocks for Biodegradable Polymer (Polyhydroxyalkanoate) Production Using Bacteria. Advances in Applied Microbiology, 2013, 84, 139-200.	2.4	147