

# Soňa Hermanová

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

790  
citations

567281

15  
h-index

501196

28  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1387  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene oxide immobilized enzymes show high thermal and solvent stability. <i>Nanoscale</i> , 2015, 7, 5852-5858.	5.6	195
2	Proteinase-sculptured 3D-printed graphene/polylactic acid electrodes as potential biosensing platforms: towards enzymatic modeling of 3D-printed structures. <i>Nanoscale</i> , 2019, 11, 12124-12131.	5.6	84
3	A Maze in Plastic Wastes: Autonomous Motile Photocatalytic Microrobots against Microplastics. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 25102-25110.	8.0	53
4	Micro/nanomachines: what is needed for them to become a real force in cancer therapy?. <i>Nanoscale</i> , 2019, 11, 6519-6532.	5.6	46
5	Biofilm formation and extracellular polymeric substances (EPS) production by <i>Bacillus subtilis</i> depending on nutritional conditions in the presence of polyester film. <i>Folia Microbiologica</i> , 2016, 61, 91-100.	2.3	33
6	Processing stability of polypropylene impact-copolymer during multiple extrusion – Effect of polymerization technology. <i>Polymer Degradation and Stability</i> , 2011, 96, 491-498.	5.8	27
7	Biocatalytic Micro- and Nanomotors. <i>Chemistry - A European Journal</i> , 2020, 26, 11085-11092.	3.3	27
8	Real-time Biomonitoring Device Based on 2D Black Phosphorus and Polyaniline Nanocomposite Flexible Supercapacitors. <i>Small</i> , 2021, 17, e2102337.	10.0	27
9	Lipase enzymes on graphene oxide support for high-efficiency biocatalysis. <i>Applied Materials Today</i> , 2016, 5, 200-208.	4.3	26
10	Functionalization Conditions of PLGA-PEG-PLGA Copolymer with Itaconic Anhydride. <i>Macromolecular Symposia</i> , 2010, 295, 119-124.	0.7	25
11	Biodegradation study on poly( $\epsilon$ -caprolactone) with bimodal molecular weight distribution. <i>Journal of Applied Polymer Science</i> , 2013, 127, 4726-4735.	2.6	23
12	Biodegradation of waste PET based copolyesters in thermophilic anaerobic sludge. <i>Polymer Degradation and Stability</i> , 2015, 111, 176-184.	5.8	22
13	Polymer platforms for micro- and nanomotor fabrication. <i>Nanoscale</i> , 2018, 10, 7332-7342.	5.6	22
14	Micromotors as “Motherships”: A Concept for the Transport, Delivery, and Enzymatic Release of Molecular Cargo via Nanoparticles. <i>Langmuir</i> , 2019, 35, 10618-10624.	3.5	18
15	Micromachines for Microplastics Treatment. <i>ACS Nanoscience Au</i> , 2022, 2, 225-232.	4.8	18
16	Effect of multiple extrusion on molecular structure of polypropylene impact copolymer. <i>Polymer Degradation and Stability</i> , 2009, 94, 1722-1727.	5.8	15
17	Synthesis of amphiphilic copolymers based on dendritic polyethylene grafted by polyhydroxyethylmethacrylate and polyhydroxypropylmethacrylate and their use for construction of nanoparticles. <i>European Polymer Journal</i> , 2019, 115, 193-200.	5.4	15
18	Fluorosilyl-Substituted Cyclopentadienyltitanium(IV) Complexes: Synthesis, Structure, and Styrene Polymerization Behavior#. <i>Organometallics</i> , 2007, 26, 2735-2741.	2.3	14

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19	Anaerobic digestion of aliphatic polyesters. <i>Water Science and Technology</i> , 2016, 73, 2386-2393.	2.5	14
20	Structure and Morphology of Microbial Degraded Poly( $\epsilon$ -caprolactone)/Graphite Oxide Composite. <i>Journal of Polymers and the Environment</i> , 2014, 22, 190-199.	5.0	11
21	On the topology of highly branched polyethylenes prepared by amine-imine nickel and palladium complexes: the effect of <i>ortho</i> -aryl substituents. <i>Polymer International</i> , 2018, 67, 946-956.	3.1	10
22	The Effect of Processing of Polycaprolactone Films on Degradation Process Initiated by <i>Aspergillus Oryzae</i> Lipase. <i>International Journal of Polymer Analysis and Characterization</i> , 2012, 17, 465-475.	1.9	9
23	Degradation of pet copolyesters under real and laboratory composting conditions. <i>Journal of Material Cycles and Waste Management</i> , 2018, 20, 414-420.	3.0	8
24	Fluorographene and Graphane as an Excellent Platform for Enzyme Biocatalysis. <i>Chemistry - A European Journal</i> , 2018, 24, 16833-16839.	3.3	8
25	Thiographene synthesized from fluorographene <i>via</i> xanthogenate with immobilized enzymes for environmental remediation. <i>Nanoscale</i> , 2019, 11, 10695-10701.	5.6	8
26	Poly(trimethylene carbonate-co-valerolactone) copolymers are materials with tailorable properties: from soft to thermoplastic elastomers. <i>RSC Advances</i> , 2020, 10, 44111-44120.	3.6	7
27	Novel triazole-based aluminum complex for ring-opening polymerization of lactones. <i>Polymer Bulletin</i> , 2011, 67, 1751-1760.	3.3	6
28	Ecotoxicity of Composts Containing Aliphatic-Aromatic Copolyesters. <i>Polish Journal of Environmental Studies</i> , 0, 24, 1497-1505.	1.2	6
29	Biodegradable polyester platform for extrusion-based bioprinting. <i>Bioprinting</i> , 2022, 26, e00198.	5.8	5
30	Nanoparticles Based on Poly(trimethylene carbonate) Triblock Copolymers with Post-Crystallization Ability and Their Degradation <i>in vitro</i> . <i>Macromolecular Research</i> , 2018, 26, 1026-1034.	2.4	4
31	$\text{LiYbCl}_4(\text{THF})_4$ . <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, m700-m700.	0.2	1
32	The Impact of Graphite Source and the Synthesis Method on the Properties of Graphene Oxide. <i>Key Engineering Materials</i> , 0, 592-593, 374-377.	0.4	1
33	Characterization of Polycaprolactone Films Biodeterioration by Scanning Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2014, 20, 1950-1951.	0.4	1
34	Frontispiece: Biocatalytic Micro- and Nanomotors. <i>Chemistry - A European Journal</i> , 2020, 26, .	3.3	1