Hynek BeneÅ¡

List of Publications by Year
in descending order

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37	632	567281 15	642732 23
papers	citations	h-index	g-index

37	37	37	676
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biodegradability and ecotoxicity of polyurethane foams: A review. Critical Reviews in Environmental Science and Technology, 2022, 52, 157-202.	12.8	49
2	Fluorinated Ferrocene Moieties as a Platform for Redox-Responsive Polymer ¹⁹F MRI Theranostics. Macromolecules, 2022, 55, 658-671.	4.8	6
3	Synthesis and structural characterization of bio-based bis(cyclic carbonate)s for the preparation of non-isocyanate polyurethanes. Polymer Chemistry, 2021, 12, 1643-1652.	3.9	23
4	Thermoresponsive properties of polyacrylamides in physiological solutions. Polymer Chemistry, 2021, 12, 5077-5084.	3.9	12
5	Thermoset-thermoplastic-ionic liquid ternary hybrids as novel functional polymer materials. Polymer, 2021, 218, 123507.	3.8	14
6	Open-Cell Aliphatic Polyurethane Foams with High Content of Polysaccharides: Structure, Degradation, and Ecotoxicity. ACS Sustainable Chemistry and Engineering, 2021, 9, 6023-6032.	6.7	9
7	Polycyclic aromatic hydrocarbon accumulation in aged and unaged polyurethane microplastics in contaminated soil. Science of the Total Environment, 2021, 770, 145254.	8.0	28
8	Direct Comparison of Analogous Amphiphilic Gradient and Block Polyoxazolines. Macromolecules, 2021, 54, 8182-8194.	4.8	16
9	Sustainable microwave synthesis of biodegradable active packaging films based on polycaprolactone and layered ZnO nanoparticles. Polymer Degradation and Stability, 2021, 190, 109625.	5.8	16
10	Microbial and abiotic degradation of fully aliphatic polyurethane foam suitable for biotechnologies. Polymer Degradation and Stability, 2021, 194, 109764.	5.8	10
11	Development and Characterization of â€œGreen Open-Cell Polyurethane Foamsâ€•with Reduced Flammability. Materials, 2020, 13, 5459.	2.9	16
12	Effects of Immobilized Ionic Liquid on Properties of Biodegradable Polycaprolactone/LDH Nanocomposites Prepared by In Situ Polymerization and Melt-Blending Techniques. Nanomaterials, 2020, 10, 969.	4.1	17
13	Ionic liquid-functionalized LDH as catalytic-initiating nanoparticles for microwave-activated ring opening polymerization of Îµ-caprolactone. Reaction Chemistry and Engineering, 2020, 5, 506-518.	3.7	8
14	Multifunctional and fully aliphatic biodegradable polyurethane foam as porous biomass carrier for biofiltration. Polymer Degradation and Stability, 2020, 176, 109156.	5.8	14
15	Self-Catalyzed Coupling between BrÃ¸nsted-Acidic Imidazolium Salts and Epoxy-Based Materials: A Theoretical/Experimental Study. ACS Sustainable Chemistry and Engineering, 2019, 7, 19050-19061.	6.7	5
16	Ionic Liquids as Delaminating Agents of Layered Double Hydroxide during In-Situ Synthesis of Poly (Butylene Adipate-co-Terephthalate) Nanocomposites. Nanomaterials, 2019, 9, 618.	4.1	17
17	Evaluation of the glycerolysis process and valorisation of recovered polyol in polyurethane synthesis. Reactive and Functional Polymers, 2019, 139, 25-33.	4.1	24
18	Mg-Al-La LDH-MnFe2O4 hybrid material for facile removal of anionic dyes from aqueous solutions. Applied Clay Science, 2019, 169, 1-9.	5.2	22

#	Article	IF	Citations
19	Impact of Natural Oil-Based Recycled Polyols on Properties of Cast Polyurethanes. Journal of Renewable Materials, 2018, 6, 697-706.	2.2	9
20	Aqueous-Based Functionalizations of Titanate Nanotubes: A Straightforward Route to High-Performance Epoxy Composites with Interfacially Bonded Nanofillers. Macromolecules, 2018, 51, 5989-6002.	4.8	6
21	Ionic Liquid-Silica Precursors via Solvent-Free Solâ€“Gel Process and Their Application in Epoxy-Amine Network: A Theoretical/Experimental Study. ACS Applied Materials & Interfaces, 2017, 9, 16474-16487.	8.0	17
22	Rigid Polyurethane Foam Fabrication Using Medium Chain Glycerides of Coconut Oil and Plastics from End-of-Life Vehicles. ACS Sustainable Chemistry and Engineering, 2017, 5, 6237-6246.	6.7	43
23	Toughening of Epoxy/Ionic Liquid Networks with Thermoplastics Based on Poly(2,6-dimethyl-1,4-phenylene ether) (PPE). ACS Sustainable Chemistry and Engineering, 2017, 5, 1153-1164.	6.7	32
24	Medium chain glycerides of coconut oil for microwave-enhanced conversion of polycarbonate into polyols. European Polymer Journal, 2017, 86, 173-187.	5.4	15
25	Poly(meth)acrylate nanocomposite membranes containing in situ exfoliated graphene platelets: Synthesis, characterization and gas barrier properties. European Polymer Journal, 2017, 94, 431-445.	5.4	7
26	Ionic Liquids as Surfactants for Layered Double Hydroxide Fillers: Effect on the Final Properties of Poly(Butylene Adipate-Co-Terephthalate). Nanomaterials, 2017, 7, 297.	4.1	10
27	Influence of ionic liquid-modified LDH on microwave-assisted polymerization of Îµ-caprolactone. Polymer, 2016, 100, 86-94.	3.8	26
28	Differently-catalyzed silica-based precursors as functional additives for the epoxy-based hybrid materials. Polymer, 2016, 99, 434-446.	3.8	8
29	Influence of solâ€“gel conditions on the final structure of silica-based precursors. Journal of Sol-Gel Science and Technology, 2015, 75, 649-663.	2.4	10
30	Polyurethane foams based entirely on recycled polyols derived from natural oils. Polimery, 2015, 60, 579-585.	0.7	4
31	Synergetic catalytic effect of carbon nanotubes and polyethersulfone on polymerization of glassy epoxy-based systems â€“ isothermal kinetic modelling. Thermochimica Acta, 2014, 590, 107-115.	2.7	5
32	Recycling of waste poly(ethylene terephthalate) with castor oil using microwave heating. Polymer Degradation and Stability, 2013, 98, 2232-2243.	5.8	28
33	Preparation and characterization of organic/inorganic hybrid epoxy networks from reactive inorganic precursors. Journal of Applied Polymer Science, 2012, 125, 1000-1011.	2.6	12
34	Polyurethanes with bioâ€based and recycled components. European Journal of Lipid Science and Technology, 2012, 114, 71-83.	1.5	29
35	Utilization of Natural Oils for Decomposition of Polyurethanes. Journal of Polymers and the Environment, 2012, 20, 175-185.	5.0	18
36	Solvent-free synthesis of reactive inorganic precursors for preparation of organic/inorganic hybrid materials. Journal of Sol-Gel Science and Technology, 2011, 59, 598-612.	2.4	8

#	Article	IF	Citations
37	Glycolysis of flexible polyurethane foam in recycling of car seats. Polymers for Advanced Technologies, 2007, 18, 149-156.	3.2	39