

Marek Klein

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

840
citations

471371

17
h-index

610775

24
g-index

24
all docs

24
docs citations

24
times ranked

1106
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective method of treatment of effluents from production of bitumens under basic pH conditions using hydrodynamic cavitation aided by external oxidants. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 969-979.	3.8	114
2	Photocatalytic activity and luminescence properties of RE ₃ +TiO ₂ nanocrystals prepared by sol-gel and hydrothermal methods. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 825-837.	10.8	101
3	The effect of metal cluster deposition route on structure and photocatalytic activity of mono- and bimetallic nanoparticles supported on TiO ₂ by radiolytic method. <i>Applied Surface Science</i> , 2016, 378, 37-48.	3.1	66
4	Investigating the combined impact of plasticizer and shear force on the efficiency of low temperature reclaiming of ground tire rubber (GTR). <i>Polymer Degradation and Stability</i> , 2016, 125, 1-11.	2.7	66
5	Photoactivity of decahedral TiO ₂ loaded with bimetallic nanoparticles: Degradation pathway of phenol-1- ¹³ C and hydroxyl radical formation. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 56-71.	10.8	65
6	Methane formation over TiO ₂ -based photocatalysts: Reaction pathways. <i>Applied Catalysis B: Environmental</i> , 2015, 164, 433-442.	10.8	48
7	Structural, mechanical and thermal behavior assessments of PCL/PHB blends reactively compatibilized with organic peroxides. <i>Polymer Testing</i> , 2018, 67, 513-521.	2.3	44
8	On the Correlation of Lignocellulosic Filler Composition with the Performance Properties of Poly(μ -Caprolactone) Based Biocomposites. <i>Waste and Biomass Valorization</i> , 2020, 11, 1467-1479.	1.8	40
9	Structure, Mechanical, Thermal and Fire Behavior Assessments of Environmentally Friendly Crude Glycerol-Based Rigid Polyisocyanurate Foams. <i>Journal of Polymers and the Environment</i> , 2018, 26, 1854-1868.	2.4	36
10	Performance properties of rigid polyurethane-polyisocyanurate/brewers' spent grain foamed composites as function of isocyanate index. <i>E-Polymers</i> , 2017, 17, 427-437.	1.3	31
11	Towards understanding the role of peroxide initiators on compatibilization efficiency of thermoplastic elastomers highly filled with reclaimed GTR. <i>Polymer Testing</i> , 2019, 73, 143-151.	2.3	31
12	Processing, physico-mechanical and thermal properties of reclaimed GTR and NBR/reclaimed GTR blends as function of various additives. <i>Polymer Degradation and Stability</i> , 2017, 143, 186-195.	2.7	27
13	Synergistic Effects of Bitumen Plasticization and Microwave Treatment on Short-Term Devulcanization of Ground Tire Rubber. <i>Polymers</i> , 2018, 10, 1265.	2.0	26
14	The emissions of monoaromatic hydrocarbons from small polymeric toys placed in chocolate food products. <i>Science of the Total Environment</i> , 2015, 530-531, 290-296.	3.9	23
15	Foamed Polyurethane Composites with Different Types of Ash - Morphological, Mechanical and Thermal Behavior Assessments. <i>Frontiers in Forests and Global Change</i> , 2016, 35, 287-308.	0.6	23
16	Characterization of volatile compounds, structural, thermal and physico-mechanical properties of cross-linked polyethylene foams degraded thermo-mechanically at variable times. <i>Polymer Degradation and Stability</i> , 2016, 134, 383-393.	2.7	21
17	Experimental and theoretical investigations of the influence of carbon on a Ho ³⁺ -TiO ₂ photocatalyst with Vis response. <i>Journal of Colloid and Interface Science</i> , 2019, 549, 212-224.	5.0	18
18	Structure and performance properties of environmentally-friendly biocomposites based on poly(ϵ -caprolactone) modified with copper slag and shale drill cuttings wastes. <i>Science of the Total Environment</i> , 2018, 640-641, 1320-1331.	3.9	14

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19	Two-step Conversion of Crude Glycerol Generated by Biodiesel Production into Biopolyols: Synthesis, Structural and Physical Chemical Characterization. <i>Journal of Polymers and the Environment</i> , 2018, 26, 3334-3344.	2.4	12
20	Rheological properties, oxidative and thermal stability, and potential application of biopolyols prepared via two-step process from crude glycerol. <i>Polymer Degradation and Stability</i> , 2018, 152, 29-42.	2.7	12
21	Pyrolysis of biomass and refuse-derived fuel performance in laboratory scale batch reactor. <i>Archives of Thermodynamics</i> , 2014, 35, 141-152.	1.0	9
22	Ground Tire Rubber Modified by Elastomers via Low-Temperature Extrusion Process: Physico-Mechanical Properties and Volatile Organic Emission Assessment. <i>Polymers</i> , 2022, 14, 546.	2.0	6
23	Formation of fireside deposits in feather gasification and heat recovery systems – An industrial case study. <i>Fuel Processing Technology</i> , 2015, 139, 8-14.	3.7	5
24	Gaseous Products from Scrap Tires Pyrolysis. <i>Ecological Chemistry and Engineering S</i> , 2012, 19, 451-460.	0.3	2