Kinga Pielichowska

List of Publications by Year
in descending order

76 papers	3,298 citations	257450 24 h-index	149698 56 g-index
80 all docs	80 docs citations	80 times ranked	3675 citing authors

#	Article	IF	Citations
1	Phase change materials for thermal energy storage. Progress in Materials Science, 2014, 65, 67-123.	32.8	1,475
2	Differential scanning calorimetry studies on poly(ethylene glycol) with different molecular weights for thermal energy storage materials. Polymers for Advanced Technologies, 2002, 13, 690-696.	3.2	255
3	Non-oxidative thermal degradation of poly(ethylene oxide): kinetic and thermoanalytical study. Journal of Analytical and Applied Pyrolysis, 2005, 73, 131-138.	5.5	125
4	Bioactive Polymer/Hydroxyapatite (Nano)composites for Bone Tissue Regeneration. Advances in Polymer Science, 2010, , 97-207.	0.8	78
5	Renewable energy systems for building heating, cooling and electricity production with thermal energy storage. Renewable and Sustainable Energy Reviews, 2022, 165, 112560.	16.4	70
6	Polyurethane/graphite nano-platelet composites for thermal energy storage. Renewable Energy, 2016, 91, 456-465.	8.9	67
7	Biodegradable PEO/celluloseâ€based solidâ€“solid phase change materials. Polymers for Advanced Technologies, 2011, 22, 1633-1641.	3.2	66
8	The influence of chain extender on properties of polyurethane-based phase change materials modified with graphene. Applied Energy, 2016, 162, 1024-1033.	10.1	65
9	Differential Scanning Calorimetry Study of Blends of Poly(ethylene glycol) with Selected Fatty Acids. Macromolecular Materials and Engineering, 2003, 288, 259-264.	3.6	64
10	PEO/fatty acid blends for thermal energy storage materials. Structural/morphological features and hydrogen interactions. European Polymer Journal, 2008, 44, 3344-3360.	5.4	64
11	Thermal Decomposition of Polymer Nanocomposites With Functionalized Nanoparticles. , 2019, , 405-435.		56
12	Step-scan alternating DSC study of melting and crystallisation in poly(ethylene oxide). Polymer, 2004, 45, 1235-1242.	3.8	41
13	Recent developments in polymeric phase change materials for energy storage: poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.2	41
14	Recent Developments in Polyurethane-Based Materials for Bone Tissue Engineering. Polymers, 2021, 13, 946.	4.5	37
15	Crystallization behaviour of PEO with carbon-based nanonucleants for thermal energy storage. Thermochimica Acta, 2010, 510, 173-184.	2.7	36
16	Mechanical and thermal properties of carbon-nanotube-reinforced self-healing polyurethanes. Journal of Materials Science, 2017, 52, 12221-12234.	3.7	35
17	Thermooxidative degradation of polyoxymethylene homo- and copolymer nanocomposites with hydroxyapatite: Kinetic and thermoanalytical study. Thermochimica Acta, 2015, 600, 7-19.	2.7	34
18	Preparation and characterization of polyoxymethyleneâ€copolymer/hydroxyapatite nanocomposites for longâ€term bone implants. Polymers for Advanced Technologies, 2012, 23, 1141-1150.	3.2	30

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19	Comparison of phase structures and surface free energy values for the coatings synthesised from linear polyurethanes and from waterborne polyurethane cationomers. Colloid and Polymer Science, 2011, 289, 1757-1767.	2.1	29
20	Binary blends of polyethers with fatty acids: A thermal characterization of the phase transitions. Journal of Applied Polymer Science, 2003, 90, 861-870.	2.6	27
21	Multifunctional polymer coatings for titanium implants. Materials Science and Engineering C, 2018, 93, 950-957.	7.3	27
22	Fluidized bed combustion fly ash as filler in composite polyurethane materials. Waste Management, 2019, 92, 115-123.	7.4	27
23	Polyoxymethylene-copolymer based composites with PEG-grafted hydroxyapatite with improved thermal stability. Thermochimica Acta, 2016, 633, 98-107.	2.7	26
24	Study of chemical, physico-mechanical and biological properties of 4,4â€²-methylenebis(cyclohexyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	7.3	26
25	Thermal properties of poly(ethylene oxide)/lauric acid blends: A SSAâ€"DSC study. Thermochimica Acta, 2006, 442, 18-24.	2.7	25
26	Synthesis and property of polyurethane elastomer for biomedical applications based on nonaromatic isocyanates, polyesters, and ethylene glycol. Colloid and Polymer Science, 2020, 298, 1077-1093.	2.1	25
27	A study on the melting and crystallization of polyoxymethyleneâ€copolymer/hydroxyapatite nanocomposites. Polymers for Advanced Technologies, 2013, 24, 318-330.	3.2	23
28	Polyoxymethyleneâ€homopolymer/hydroxyapatite nanocomposites for biomedical applications. Journal of Applied Polymer Science, 2012, 123, 2234-2243.	2.6	22
29	Analysis of nanomaterials and nanocomposites by thermoanalytical methods. Thermochimica Acta, 2019, 675, 140-163.	2.7	22
30	Fly Ash as an Eco-Friendly Filler for Rigid Polyurethane Foams Modification. Materials, 2021, 14, 6604.	2.9	22
31	Thermal Stabilization of Polyoxymethylene by PEG-Functionalized Hydroxyapatite: Examining the Effects of Reduced Formaldehyde Release and Enhanced Bioactivity. Advances in Polymer Technology, 2019, 2019, 1-17.	1.7	19
32	The influence of molecular weight on the properties of polyacetal/hydroxyapatite nanocomposites. Part 1. Microstructural analysis and phase transition studies. Journal of Polymer Research, 2012, 19, 1.	2.4	18
33	Thermal properties of polyurethane-based composites modified with chitosan for biomedical applications. Journal of Thermal Analysis and Calorimetry, 2021, 143, 3471-3478.	3.6	17
34	Novel biodegradable form stable phase change materials: Blends of poly(ethylene oxide) and gelatinized potato starch. Journal of Applied Polymer Science, 2010, 116, 1725-1731.	2.6	16
35	Thermal degradation kinetics of polyurethaneâ€"siloxane anionomers. Thermochimica Acta, 2010, 507-508, 91-98.	2.7	16
36	Composites prepared from the waterborne polyurethane cationomersâ€"modified graphene. Part I. Synthesis, structure, and physicochemical properties. Colloid and Polymer Science, 2015, 293, 421-431.	2.1	16

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37	The influence of polyoxymethylene molar mass on the oxidative thermal degradation of its nanocomposites with hydroxyapatite. Journal of Thermal Analysis and Calorimetry, 2016, 124, 751-765.	3.6	16
38	The influence of molecular weight on the properties of polyacetal/hydroxyapatite nanocomposites. Part 2. In vitro assessment. Journal of Polymer Research, 2012, 19, 1.	2.4	15
39	Physicochemical and antibacterial properties of polyurethane coatings modified by <scp>ZnO</scp>. Polymers for Advanced Technologies, 2018, 29, 1056-1067.	3.2	14
40	Preparation of polyoxymethylene/hydroxyapatite nanocomposites by melt processing. International Journal of Material Forming, 2008, 1, 941-944.	2.0	13
41	TOPEM DSC study of glass transition region of polyurethane cationomers. Thermochimica Acta, 2012, 545, 187-193.	2.7	13
42	Polymer Nanocomposites. Handbook of Thermal Analysis and Calorimetry, 2018, 6, 431-485.	1.6	13
43	Chitosan-Based Hydrogels: Preparation, Properties, and Applications. Polymers and Polymeric Composites, 2019, , 1665-1693.	0.6	13
44	Polyurethane cationomers modified by polysiloxane. Polymers for Advanced Technologies, 2017, 28, 1366-1374.	3.2	12
45	Modification of acrylic bone cements by poly(ethylene glycol) with different molecular weight. Polymers for Advanced Technologies, 2016, 27, 1284-1293.	3.2	11
46	Polyurethane cationomer films as ecological membranes for building industry. Progress in Organic Coatings, 2019, 130, 83-92.	3.9	11
47	Examining the effect of starch and hydroxyapatite crosslinking on the thermal properties of polyurethane-based biomaterials. Thermochimica Acta, 2019, 682, 178414.	2.7	10
48	Phase Behavior of Poly(Ethylene Oxide) Studied by Modulatedâ€Temperature DSCâ€"Influence of the Molecular Weight. Journal of Macromolecular Science - Physics, 2004, 43, 459-470.	1.0	8
49	Polyurethane composite foams with Î²-tricalcium phosphate for biomedical applications. Journal of Reinforced Plastics and Composites, 2015, 34, 1856-1870.	3.1	8
50	Acrylic bone cements modified with poly(ethylene glycol)â€based biocompatible phaseâ€change materials. Journal of Applied Polymer Science, 2016, 133, .	2.6	8
51	The Influence of Nanohydroxyapatite on the Thermal, Mechanical, and Tribological Properties of Polyoxymethylene Nanocomposites. International Journal of Polymer Science, 2017, 2017, 1-11.	2.7	8
52	Surface and Structural Properties of Medical Acrylonitrile Butadiene Styrene Modified with Silver Nanoparticles. Polymers, 2020, 12, 197.	4.5	7
53	Distinct Influence of Saturated Fatty Acids on Malignant and Nonmalignant Human Lung Epithelial Cells. Lipids, 2020, 55, 117-126.	1.7	6
54	Polyurethane cationomers containing fluorinated soft segments with hydrophobic properties. Colloid and Polymer Science, 2021, 299, 1011-1029.	2.1	6

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55	Hydrophilic and hydrophobic films based on polyurethane cationomers containing TiO2 nanofiller. Progress in Organic Coatings, 2022, 162, 106524.	3.9	6
56	Kinetics of Isothermal and Nonisothermal Crystallization of Poly(ethylene oxide) (PEO) in PEO/Fatty Acid Blends. Journal of Macromolecular Science - Physics, 2011, 50, 1714-1738.	1.0	5
57	Comparison of Hydrolytic Resistance of Polyurethanes and Poly(Urethanemethacrylate) Copolymers in Terms of their Use as Polymer Coatings in Contact with the Physiological Liquid. Polish Journal of Chemical Technology, 2014, 16, 16-26.	0.5	5
58	Polyurethane/graphene nanocomposites as phase change materials for thermal energy storage. , 2015, , .		5
59	Preparation and characterization of polyoxymethylene nanocomposites. , 2015, , 103-125.		5
60	The Effect of Ash Silanization on the Selected Properties of Rigid Polyurethane Foam/Coal Fly Ash Composites. Energies, 2022, 15, 2014.	3.1	5
61	Some comments on the melting and recrystallization of polyoxymethylene by high-speed and StepScan differential scanning calorimetry. Polimery, 2004, 49, 558-560.	0.7	4
62	Polyurethanes modified by hydroxyapatite as biomaterials. Polimery, 2015, 60, 559-571.	0.7	4
63	Preparation, Characterization, and Bioactivity Evaluation of Polyoxymethylene Copolymer/Nanohydroxyapatite-g-Poly(Îµ-caprolactone) Composites. Nanomaterials, 2022, 12, 858.	4.1	4
64	Biogas production from agricultural and municipal waste. E3S Web of Conferences, 2019, 108, 02010.	0.5	3
65	http://en.www.ichp.pl/Application-of-modulated-differential-scanning-calorimetry-. Polimery, 2002, 47, 784-792.	0.7	3
66	Phase transitions of poly(ethylene oxide)/carboxylic acid blends able to storage of energy. Polimery, 2004, 49, 173-179.	0.7	2
67	Step-scan Alternating Differential Scanning Calorimetry Studies on the Crystallisation Behaviour of Low Molecular Weight Polyethylene. , 2007, , 427-434.		1
68	Assesment of the usability of Mg(OH)₂ obtained from the solution after sphalerite leaching for the winning of polyetylene composition. Polish Journal of Chemical Technology, 2008, 10, 37-39.	0.5	1
69	Chitosan-Based Hydrogels: Preparation, Properties, and Applications. Polymers and Polymeric Composites, 2018, , 1-29.	0.6	1
70	Modulated temperature DSC studies on the phase transitions of poly(ethylene oxide). Effect of temperature step. Polimery, 2003, 48, 455-457.	0.7	1
71	Maltotriose-based star polymers as self-healing materials. European Polymer Journal, 2022, 164, 110972.	5.4	1
72	The Effect of Starch and Magnetite on the Physicochemical Properties of Polyurethane Composites for Hyperthermia Treatment. Advances in Polymer Technology, 2022, 2022, 1-24.	1.7	1

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73	Polymer Nanocomposites: Preparation, Characterisation and Applications. Nanomaterials, 2022, 12, 1900.	4.1	1
74	Assesment of the usability of Mg(OH)₂ obtained from the solution after sphalerite leaching for the winning of polyetylene composition. Polish Journal of Chemical Technology, 2009, 11, 34-36.	0.5	0
75	Naturalne pierwiastki promieniotwÃ³rcze w odpadach generowanych w trakcie poszukiwaÅ„ i wydobycia gazu z Å‚upkÃ³w w pÃ³Å‚nocno-wschodniej Polsce. Przemysl Chemiczny, 2017, 1, 95-97.	0.0	0
76	The Influence of Nanohydroxyapatite on Selected Properties of Polyurethane-Based Bone Scaffold. Materials Proceedings, 2020, 4, .	0.2	0