

Joanna Pietrasik

List of Publications by Year in descending order

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74
papers

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186265
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all docs

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docs citations

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times ranked

4365
citing authors

#	ARTICLE	IF	CITATIONS
1	Grafting from Surfaces for "Everyone" ARGET ATRP in the Presence of Air. Langmuir, 2007, 23, 4528-4531.	3.5	603
2	Stimuli-responsive molecular brushes. Progress in Polymer Science, 2010, 35, 24-44.	24.7	600
3	Surface-Initiated Polymerization as an Enabling Tool for Multifunctional (Nano-)Engineered Hybrid Materials. Chemistry of Materials, 2014, 26, 745-762.	6.7	333
4	Temperature- and pH-Responsive Dense Copolymer Brushes Prepared by ATRP. Macromolecules, 2008, 41, 7013-7020.	4.8	165
5	Toughening fragile matter: mechanical properties of particle solids assembled from polymer-grafted hybrid particles synthesized by ATRP. Soft Matter, 2012, 8, 4072.	2.7	160
6	Phototunable Temperature-Responsive Molecular Brushes Prepared by ATRP. Macromolecules, 2006, 39, 3914-3920.	4.8	145
7	High Molecular Weight Polymethacrylates by AGET ATRP under High Pressure. Macromolecules, 2008, 41, 1067-1069.	4.8	138
8	ATRP Synthesis of Thermally Responsive Molecular Brushes from Oligo(ethylene oxide) Methacrylates. Macromolecules, 2007, 40, 9348-9353.	4.8	129
9	Synthesis of High Molecular Weight Poly(styrene-co-acrylonitrile) Copolymers with Controlled Architecture. Macromolecules, 2006, 39, 6384-6390.	4.8	120
10	Solution Behavior of Temperature-Responsive Molecular Brushes Prepared by ATRP. Macromolecular Chemistry and Physics, 2007, 208, 30-36.	2.2	105
11	The effect of structure on the thermoresponsive nature of well-defined poly(oligo(ethylene oxide))	2.3	105
12	Superhydrophilic Surfaces via Polymer-SiO ₂ Nanocomposites. Langmuir, 2010, 26, 15567-15573.	3.5	97
13	Effect of Polymer-Graft Modification on the Order Formation in Particle Assembly Structures. Langmuir, 2013, 29, 6452-6459.	3.5	92
14	Preparation of Polymeric Nanoscale Networks from Cylindrical Molecular Bottlebrushes. ACS Nano, 2012, 6, 6208-6214.	14.6	86
15	Nanoporous Polystyrene and Carbon Materials with Core-Shell Nanosphere-Interconnected Network Structure. Macromolecules, 2011, 44, 5846-5849.	4.8	84
16	Synthesis of high molecular weight polystyrene using AGET ATRP under high pressure. European Polymer Journal, 2011, 47, 730-734.	5.4	70
17	Structure of Polymer Tethered Highly Grafted Nanoparticles. Macromolecules, 2011, 44, 8129-8135.	4.8	69
18	Silica-Polymethacrylate Hybrid Particles Synthesized Using High-Pressure Atom Transfer Radical Polymerization. Macromolecular Rapid Communications, 2011, 32, 295-301.	3.9	67

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19	Recent developments in natural and synthetic polymeric drug delivery systems used for the treatment of osteoarthritis. <i>Acta Biomaterialia</i> , 2021, 123, 31-50.	8.3	66
20	Matrix-free Particle Brush System with Bimodal Molecular Weight Distribution Prepared by SI-ATRP. <i>Macromolecules</i> , 2015, 48, 8208-8218.	4.8	63
21	Synthesis and In Situ Atomic Force Microscopy Characterization of Temperature-Responsive Hydrogels Based on Poly(2-(dimethylamino)ethyl methacrylate) Prepared by Atom Transfer Radical Polymerization. <i>Langmuir</i> , 2007, 23, 241-249.	3.5	46
22	Novel Nanoporous Carbons from Well-Defined Poly(styrene-co-acrylonitrile)-Grafted Silica Nanoparticles. <i>Chemistry of Materials</i> , 2011, 23, 2024-2026.	6.7	46
23	Facile Arm-First Synthesis of Star Block Copolymers via ARGET ATRP with ppm Amounts of Catalyst. <i>Macromolecules</i> , 2016, 49, 6752-6760.	4.8	41
24	Structural mobility of molecular bottle-brushes investigated by NMR relaxation dynamics. <i>Polymer</i> , 2007, 48, 496-501.	3.8	35
25	Preparation of titania nanoparticles with tunable anisotropy and branched structures from core-shell molecular bottlebrushes. <i>Polymer</i> , 2016, 98, 481-486.	3.8	32
26	Effect of chain topology on the self-organization and the mechanical properties of poly(n-butyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	3.8	30
27	Preparation of ZnO hybrid nanoparticles by ATRP. <i>Polymer</i> , 2016, 107, 492-502.	3.8	30
28	Toughening PMMA with fillers containing polymer brushes synthesized via atom transfer radical polymerization (ATRP). <i>Polymer</i> , 2017, 117, 48-53.	3.8	29
29	ZnO/carbon hybrids derived from polymer nanocomposite precursor materials for pseudocapacitor electrodes with high cycling stability. <i>Polymer</i> , 2018, 137, 370-377.	3.8	29
30	Para-sulfonatocalix[n]arene-based biomaterials: Recent progress in pharmaceutical and biological applications. <i>European Journal of Medicinal Chemistry</i> , 2020, 190, 112121.	5.5	29
31	Focusing bond tension in bottle-brush macromolecules during spreading. <i>Journal of Materials Chemistry</i> , 2011, 21, 8448.	6.7	28
32	Growth of polymer brushes by grafting from via ATRP Monte Carlo simulations. <i>Polymer</i> , 2017, 130, 267-279.	3.8	27
33	Synthesis and characterization of Ag NPs templated via polymerization induced self-assembly. <i>Polymer</i> , 2017, 129, 144-150.	3.8	25
34	Photocatalytic Active Mesoporous Carbon/ZnO Hybrid Materials from Block Copolymer Tethered ZnO Nanocrystals. <i>Langmuir</i> , 2017, 33, 12276-12284.	3.5	22
35	Studies of molecular dynamics of carboxylated acrylonitrile-butadiene rubber composites containing in situ synthesized silica particles. <i>European Polymer Journal</i> , 2009, 45, 3317-3325.	5.4	20
36	Linear Viscoelasticity of Spherical SiO ₂ Nanoparticle-Tethered Poly(butyl acrylate) Hybrids. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 11985-11990.	3.7	18

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37	Versatile PISA templates for tailored synthesis of nanoparticles. <i>European Polymer Journal</i> , 2019, 110, 49-55.	5.4	18
38	Molecular bottlebrush with pH-responsive cleavable bonds as a unimolecular vehicle for anticancer drug delivery. <i>Materials Science and Engineering C</i> , 2021, 130, 112439.	7.3	18
39	Chitosan-based biomaterials for the treatment of bone disorders. <i>International Journal of Biological Macromolecules</i> , 2022, 215, 346-367.	7.5	18
40	Synthesis of basic molecular brushes: ATRP of 4-vinylpyridine in organic media. <i>European Polymer Journal</i> , 2010, 46, 2333-2340.	5.4	17
41	Tunable Assembly of Block Copolymer Tethered Particle Brushes by Surface-Initiated Atom Transfer Radical Polymerization. <i>ACS Macro Letters</i> , 2020, 9, 806-812.	4.8	17
42	Hydroxyapatite: An Environmentally Friendly Filler for Elastomers. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 483, 172-178.	0.9	16
43	New type of montmorillonite compatibilizers and their influence on viscoelastic properties of ethylene propylene diene and methyl vinyl silicone rubbers blends. <i>Applied Clay Science</i> , 2019, 183, 105359.	5.2	16
44	Star polymer-TiO ₂ nano hybrids to effectively modify the surface of PMMA dielectric layers for solution processable OFETs. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1269-1278.	5.5	16
45	Effect of Zinc Oxide Modified Silica Particles on the Molecular Dynamics of Carboxylated Acrylonitrile-Butadiene Rubber Composites. <i>Polymers</i> , 2017, 9, 645.	4.5	14
46	Evolution of Morphology of POEGMA- <i>b</i> -PBzMA Nano-Objects Formed by PISA. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800331.	3.9	13
47	Effect of Structure of Polymers Grafted from Graphene Oxide on the Compatibility of Particles with a Silicone-Based Environment and the Stimuli-Responsive Capabilities of Their Composites. <i>Nanomaterials</i> , 2020, 10, 591.	4.1	13
48	Straightforward RAFT Procedure for the Synthesis of Heterotelechelic Poly(acrylamide)s. <i>Macromolecular Rapid Communications</i> , 2014, 35, 405-411.	3.9	12
49	Structure of block copolymer grafted silica nanoparticles. <i>Polymer</i> , 2018, 159, 138-145.	3.8	12
50	Impact of ionic liquids on the processing and photo-actuation behavior of SBR composites containing graphene nanoplatelets. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129195.	7.8	12
51	Chemical Modification of Cellulose Microfibres to Reinforce Poly(methyl methacrylate) Used for Dental Application. <i>Materials</i> , 2020, 13, 3807.	2.9	11
52	Controlling Polymer Chain Topology and Architecture by ATRP from Flat Surfaces. <i>ACS Symposium Series</i> , 2005, , 28-42.	0.5	10
53	Synthesis of hydroxyapatite particles with in situ immobilized ATRP-initiator. <i>Polymer</i> , 2015, 72, 348-355.	3.8	9
54	Synthesis of Ultra-high Molecular Weight SiO ₂ -g-PMMA Particle Brushes. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 174-181.	3.7	9

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55	The effect of short polystyrene brushes grafted from graphene oxide on the behavior of miscible PMMA/SAN blends. <i>Polymer</i> , 2020, 211, 123088.	3.8	9
56	Sol-gel process of alkoxysilanes in an elastomer medium. <i>Polymer International</i> , 2005, 54, 1119-1125.	3.1	8
57	Intercalated Montmorillonites as Fillers for Acrylonitrile-Butadiene Rubber. <i>Rubber Chemistry and Technology</i> , 2007, 80, 279-295.	1.2	8
58	Gradient Poly(styrene-co-polyglycidol) Grafts via Silicon Surface-Initiated AGET ATRP. <i>Langmuir</i> , 2015, 31, 4853-4861.	3.5	8
59	Properties of carboxylated acrylonitrile/butadiene rubber containing in situ synthesized silica fillers. <i>Polimery</i> , 2002, 47, 643-648.	0.7	7
60	Effective SERS materials by loading Ag nanoparticles into poly(acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (acid-stat-acrylamide)	3.8	6
61	Elastomers Containing Fillers with Magnetic Properties. <i>Solid State Phenomena</i> , 0, 154, 121-126.	0.3	5
62	Smart TPE Materials Based on Recycled Rubber Shred. <i>Materials</i> , 2021, 14, 6237.	2.9	5
63	Linear Viscoelasticity of Polymer Tethered Highly Grafted Nanoparticles. <i>ACS Symposium Series</i> , 2009, , 257-267.	0.5	4
64	Macromolecular Templates for Synthesis of Inorganic Nanoparticles. <i>ACS Symposium Series</i> , 2018, , 169-200.	0.5	4
65	Macroscopic and microscopic shape memory effects of block copolymers prepared via ATRP. <i>Journal of Polymer Science</i> , 2020, 58, 20-24.	3.8	4
66	Influence different amount of cellulose on the mechanical strength of dental acrylic resin. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 743, 012044.	0.6	4
67	Polyacrylamide brushes with varied morphologies as a tool for control of the intermolecular interactions within EPDM/MVQ blends. <i>Polymer</i> , 2021, 215, 123387.	3.8	4
68	Stimuli-responsive vitamin E-based micelles: Effective drug carriers with a controlled anticancer drug release. <i>Polymer</i> , 2022, 253, 125001.	3.8	4
69	Renewable Fabric Surface-Initiated ATRP Polymerizations: Towards Mixed Polymer Brushes. <i>Nanomaterials</i> , 2020, 10, 536.	4.1	2
70	One-Pot Strategy for the Preparation of Electrically Conductive Composites Using Simultaneous Reduction and Grafting of Graphene Oxide via Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2021, 54, 10177-10188.	4.8	2
71	Synthesis of silica in elastomer's matrix. <i>Macromolecular Symposia</i> , 2003, 194, 321-328.	0.7	1
72	Modification of Hydroxyapatite with Polymer Brushes. <i>Materials Science Forum</i> , 0, 714, 291-295.	0.3	1

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73	Macroscopic and microscopic shape memory effects of block copolymers prepared via ATRP. Journal of Polymer Science, 2020, 58, 20-24.	3.8	0
74	Thermally Degradable Poly(n-butyl acrylate) Model Networks Prepared by PhotoATRP and Radical Trap-Assisted Atom Transfer Radical Coupling. Polymers, 2022, 14, 713.	4.5	0