

Miroslav Slouf

List of Publications by Year in descending order

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311
papers

6,869
citations

76326

40
h-index

128289

60
g-index

315
all docs

315
docs citations

315
times ranked

8567
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and properties of compatibilized LDPE/organo-modified montmorillonite nanocomposites. <i>European Polymer Journal</i> , 2005, 41, 1115-1122.	5.4	238
2	Epoxy Networks Reinforced with Polyhedral Oligomeric Silsesquioxanes (POSS). Structure and Morphology. <i>Macromolecules</i> , 2004, 37, 9449-9456.	4.8	198
3	Similarities and Differences between Cobalamins and Cobaloximes. Accurate Structural Determination of Methylcobalamin and of LiCl- and KCl-Containing Cyanocobalamins by Synchrotron Radiation. <i>Inorganic Chemistry</i> , 2000, 39, 3403-3413.	4.0	134
4	Novel polycarbonate-based polyurethane elastomers: Composition–property relationship. <i>European Polymer Journal</i> , 2011, 47, 959-972.	5.4	134
5	Synergistic effects in mechanical properties of PLA/PCL blends with optimized composition, processing, and morphology. <i>RSC Advances</i> , 2015, 5, 98971-98982.	3.6	128
6	Superparamagnetic Fe ₃ O ₄ Nanoparticles: Synthesis by Thermal Decomposition of Iron(III) Glucuronate and Application in Magnetic Resonance Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7238-7247.	8.0	114
7	Phase Structure, Compatibility, and Toughness of PLA/PCL Blends: A Review. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	114
8	Formation of nanostructured epoxy networks containing polyhedral oligomeric silsesquioxane (POSS) blocks. <i>Polymer</i> , 2007, 48, 3041-3058.	3.8	94
9	Green synthesis of bimetallic ZnO–CuO nanoparticles and their cytotoxicity properties. <i>Scientific Reports</i> , 2021, 11, 23479.	3.3	88
10	Strong synergistic effects in PLA/PCL blends: Impact of PLA matrix viscosity. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 69, 229-241.	3.1	87
11	Super porous organic–inorganic poly(N-isopropylacrylamide)-based hydrogel with a very fast temperature response. <i>Polymer</i> , 2007, 48, 1471-1482.	3.8	84
12	Kinetics and mechanism of the biodegradation of PLA/clay nanocomposites during thermophilic phase of composting process. <i>Waste Management</i> , 2015, 42, 31-40.	7.4	81
13	Structural changes of UHMWPE after e-beam irradiation and thermal treatment. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 85B, 240-251.	3.4	68
14	Modification of carbon nanotubes and its effect on properties of carbon nanotube/epoxy nanocomposites. <i>Polymer Composites</i> , 2009, 30, 1378-1387.	4.6	67
15	Superporous poly(2-hydroxyethyl methacrylate) based scaffolds: Preparation and characterization. <i>Polymer</i> , 2008, 49, 2046-2054.	3.8	64
16	Polystyrene Nanofiber Materials Modified with an Externally Bound Porphyrin Photosensitizer. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3776-3783.	8.0	64
17	Polyethylenimine based magnetic nanoparticles mediated non-viral CRISPR/Cas9 system for genome editing. <i>Scientific Reports</i> , 2020, 10, 4619.	3.3	64
18	Microscopic Structure of Swollen Hydrogels by Scanning Electron and Light Microscopies: Artifacts and Reality. <i>Polymers</i> , 2020, 12, 578.	4.5	62

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19	Single-molecule surface-enhanced Raman spectroscopy from a molecularly-bridged silver nanoparticle dimer. <i>Chemical Physics Letters</i> , 2008, 455, 131-134.	2.6	58
20	Electrical and thermomechanical properties of epoxy-POSS nanocomposites. <i>European Polymer Journal</i> , 2011, 47, 861-872.	5.4	57
21	Polymer/clay nanocomposites and their gas barrier properties. <i>Polymer Composites</i> , 2013, 34, 1418-1424.	4.6	57
22	Study of ²²³ Ra uptake mechanism by Fe ₃ O ₄ nanoparticles: towards new prospective theranostic SPIONs. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	55
23	Fluorescent boronate-based polymer nanoparticles with reactive oxygen species (ROS)-triggered cargo release for drug-delivery applications. <i>Nanoscale</i> , 2016, 8, 6958-6963.	5.6	54
24	Poly(2-hydroxyethyl methacrylate)-based slabs as a mouse embryonic stem cell support. <i>Biomaterials</i> , 2004, 25, 5249-5260.	11.4	50
25	Self-Assembled Thermoresponsive Polymeric Nanogels for ¹⁹ F MR Imaging. <i>Biomacromolecules</i> , 2018, 19, 3515-3524.	5.4	49
26	Structure Characterization and Biodegradation Rate of Poly(μ -caprolactone)/Starch Blends. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	49
27	Gold Micrometer Crystals Modified with Carboranethiol Derivatives. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14446-14455.	3.1	48
28	A new route for chitosan immobilization onto polyethylene surface. <i>Carbohydrate Polymers</i> , 2012, 90, 1501-1508.	10.2	47
29	Porphyrim-layered double hydroxide/polymer composites as novel ecological photoactive surfaces. <i>Journal of Materials Chemistry</i> , 2010, 20, 9423.	6.7	46
30	The multifunctional role of ionic liquids in the formation of epoxy-silica nanocomposites. <i>Journal of Materials Chemistry</i> , 2011, 21, 13801.	6.7	44
31	Physico-chemical characteristics, biocompatibility, and MRI applicability of novel monodisperse PEG-modified magnetic Fe ₃ O ₄ & SiO ₂ core-shell nanoparticles. <i>RSC Advances</i> , 2017, 7, 8786-8797.	3.6	44
32	Porphyrim "Flying-Saucers" Solid State and Solution Structure of a Novel Pentameric Array of Axially-Ligated Canted Porphyrins. <i>Inorganic Chemistry</i> , 1999, 38, 2527-2529.	4.0	42
33	Crystal Chemistry of Cobalamins. Structural Characterization of the Co-S Bond in Cobalamins. <i>Inorganic Chemistry</i> , 1999, 38, 4087-4092.	4.0	42
34	Polymer-clay nanocomposites prepared via in situ emulsion polymerization. <i>Polymer Bulletin</i> , 2009, 63, 365-384.	3.3	42
35	Fast temperature-responsive nanocomposite PNIPAM hydrogels with controlled pore wall thickness: Force and rate of T-response. <i>European Polymer Journal</i> , 2012, 48, 1997-2007.	5.4	42
36	Viscoelastic and photo-actuation studies of composites based on polystyrene-grafted carbon nanotubes and styrene-b-isoprene-b-styrene block copolymer. <i>Polymer</i> , 2014, 55, 211-218.	3.8	42

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37	Nanometer size wear debris generated from ultra high molecular weight polyethylene in vivo. <i>Wear</i> , 2009, 266, 349-355.	3.1	41
38	Linear low density polyethylene/cycloolefin copolymer blends. <i>EXPRESS Polymer Letters</i> , 2011, 5, 23-37.	2.1	41
39	Super-porous nanocomposite PNIPAm hydrogels reinforced with titania nanoparticles, displaying a very fast temperature response as well as pH-sensitivity. <i>European Polymer Journal</i> , 2014, 59, 341-352.	5.4	41
40	Macroporous Hydrogels Based on 2-Hydroxyethyl Methacrylate. Part 1. Copolymers of 2-Hydroxyethyl Methacrylate with Methacrylic Acid. <i>Collection of Czechoslovak Chemical Communications</i> , 2003, 68, 812-822.	1.0	40
41	Thermoresponsive Self-Assembly of Short Elastin-Like Polypentapeptides and Their Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overloc	4.1	40
42	Solution and Solid State Structure of a Canted, Side-to-Face, Bis(porphyrin) Adduct. <i>Inorganic Chemistry</i> , 1999, 38, 869-875.	4.0	39
43	Single molecule SERS: Perspectives of analytical applications. <i>Journal of Molecular Structure</i> , 2007, 834-836, 42-47.	3.6	38
44	Morphology of undeformed and deformed polyethylene lamellar crystals. <i>Polymer</i> , 2010, 51, 5780-5787.	3.8	37
45	Synthesis of Photoactuating Acrylic Thermoplastic Elastomers Containing Diblock Copolymer-Grafted Carbon Nanotubes. <i>ACS Macro Letters</i> , 2014, 3, 999-1003.	4.8	37
46	Self-assembled anchor layers/polysaccharide coatings on titanium surfaces: a study of functionalization and stability. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 617-631.	2.8	37
47	Spinning, drawing and physical properties of polypropylene nanocomposite fibers with fumed nanosilica. <i>EXPRESS Polymer Letters</i> , 2015, 9, 277-290.	2.1	37
48	Preparation and X-ray Analysis of Crystals of Azido- and Chlorocobalamin Containing LiCl: A Structural Model for the Interactions of the Corrin Ring with Ionic Species. <i>Inorganic Chemistry</i> , 1998, 37, 5390-5393.	4.0	36
49	Self-Assembly of Gold Nanoparticles as Colloidal Crystals Induced by Polymerization of Amphiphilic Monomers. <i>Macromolecules</i> , 2008, 41, 4895-4903.	4.8	36
50	The relationship of polyethylene wear to particle size, distribution, and number: A possible factor explaining the risk of osteolysis after hip arthroplasty. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 94B, 171-177.	3.4	36
51	RGDS- and TAT-Conjugated Upconversion of NaYF ₄ :Yb ³⁺ /Er ³⁺ &SiO ₂ Nanoparticles: In Vitro Human Epithelioid Cervix Carcinoma Cellular Uptake, Imaging, and Targeting. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20422-20431.	8.0	36
52	Polyelectrolyte~Surfactant Complexes Formed by Poly[3,5-bis(trimethylammoniummethyl)4-hydroxystyrene iodide]- <i>block</i> -poly(ethylene oxide) and Sodium Dodecyl Sulfate in Aqueous Solutions. <i>Langmuir</i> , 2011, 27, 5275-5281.	3.5	35
53	Micromechanical properties of one-step and sequentially crosslinked UHMWPEs for total joint replacements. <i>Polymer Testing</i> , 2015, 41, 191-197.	4.8	35
54	High-density polyethylene/cycloolefin copolymer blends. Part 1: Phase structure, dynamic mechanical, tensile, and impact properties. <i>Polymer Engineering and Science</i> , 2005, 45, 817-826.	3.1	34

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55	Poly(HEMA) hydrogels with controlled pore architecture for tissue regeneration applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 615-621.	3.6	34
56	Structure and Pervaporation Properties of Poly(phenylene- <i>iso</i> -phthalamide) Membranes Modified by Fullerene C ₆₀ . <i>Macromolecular Materials and Engineering</i> , 2009, 294, 432-440.	3.6	34
57	Silica-modified monodisperse hexagonal lanthanide nanocrystals: synthesis and biological properties. <i>Nanoscale</i> , 2015, 7, 18096-18104.	5.6	34
58	Synthesis of conductive doubly filled poly(N-isopropylacrylamide)-polyaniline-SiO ₂ hydrogels. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 616-634.	7.8	34
59	Relations between morphology and micromechanical properties of alpha, beta and gamma phases of iPP. <i>Polymer Testing</i> , 2018, 67, 522-532.	4.8	34
60	Functional polymer hydrogels for embryonic stem cell support. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 76B, 315-325.	3.4	33
61	Crystalline Character and Microhardness of Gamma-irradiated and Thermally Treated UHMWPE. <i>Journal of Macromolecular Science - Physics</i> , 2007, 46, 521-531.	1.0	33
62	Polyamide Membranes Modified by Carbon Nanotubes: Application for Pervaporation. <i>Separation Science and Technology</i> , 2009, 45, 35-41.	2.5	33
63	Temoporfin-loaded 1-tetradecanol-based thermoresponsive solid lipid nanoparticles for photodynamic therapy. <i>Journal of Controlled Release</i> , 2016, 241, 34-44.	9.9	33
64	Poly(N-isopropylacrylamide)-SiO ₂ nanocomposites interpenetrated by starch: Stimuli-responsive hydrogels with attractive tensile properties. <i>European Polymer Journal</i> , 2017, 88, 349-372.	5.4	32
65	Isolation, characterization and quantification of polyethylene wear debris from periprosthetic tissues around total joint replacements. <i>Wear</i> , 2007, 262, 1171-1181.	3.1	31
66	Rubber-toughened polypropylene/acrylonitrile-co-butadiene-co-styrene blends: Morphology and mechanical properties. <i>Polymer Engineering and Science</i> , 2007, 47, 582-592.	3.1	31
67	Thermoplastic starch composites with TiO ₂ particles: Preparation, morphology, rheology and mechanical properties. <i>International Journal of Biological Macromolecules</i> , 2017, 101, 273-282.	7.5	31
68	Macroporous hydrogels based on 2-hydroxyethyl methacrylate. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 767-773.	3.6	30
69	Thermosensitive PNIPAA-Based Organic-Inorganic Hydrogels. <i>Polymer Journal</i> , 2006, 38, 527-541.	2.7	30
70	Effect of glass fibers on rheology, thermal and mechanical properties of recycled PET. <i>Polymer Composites</i> , 2008, 29, 915-921.	4.6	30
71	Photo-actuating materials based on elastomers and modified carbon nanotubes. <i>Journal of Nanophotonics</i> , 2012, 6, 063522.	1.0	30
72	β-Cyclodextrin-epichlorohydrin polymer/graphene oxide nanocomposite: preparation and characterization. <i>Chemical Papers</i> , 2018, 72, 1299-1313.	2.2	30

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73	Cycloolefin copolymer/fumed silica nanocomposites. <i>Journal of Applied Polymer Science</i> , 2011, 119, 3393-3402.	2.6	29
74	Poly(N-isopropyl acrylamide)-block-poly(n-butyl acrylate) thermoresponsive amphiphilic copolymers: Synthesis, characterization and self-assembly behavior in aqueous solutions. <i>European Polymer Journal</i> , 2014, 61, 124-132.	5.4	29
75	Improved biocompatibility and efficient labeling of neural stem cells with poly(L-lysine)-coated maghemite nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 926-936.	2.8	29
76	Phase morphology of PP/COC blends. <i>Journal of Applied Polymer Science</i> , 2004, 91, 253-259.	2.6	28
77	Recycled poly(ethylene terephthalate) reinforced with basalt fibres: Rheology, structure, and utility properties. <i>Polymer Composites</i> , 2008, 29, 437-442.	4.6	28
78	A view from inside onto the surface of self-assembled nanocomposite coatings. <i>Progress in Organic Coatings</i> , 2008, 61, 145-155.	3.9	28
79	Surface-enhanced Raman scattering from a single molecularly bridged silver nanoparticle aggregate. <i>Journal of Molecular Structure</i> , 2009, 924-926, 567-570.	3.6	28
80	Support for the initial attachment, growth and differentiation of MG-63 cells: a comparison between nano-size hydroxyapatite and micro-size hydroxyapatite in composites. <i>International Journal of Nanomedicine</i> , 2014, 9, 3687.	6.7	27
81	Macroporous hydrogels based on 2-hydroxyethyl methacrylate. Part 5: Hydrolytically degradable materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2006, 17, 1357-1364.	3.6	26
82	The effect of the architecture and concentration of styrene- <i>co</i> -butadiene compatibilizers on the morphology of polystyrene/low-density polyethylene blends. <i>Journal of Applied Polymer Science</i> , 2006, 100, 2803-2816.	2.6	26
83	RBS, XPS, and TEM study of metal and polymer interface modified by plasma treatment. <i>Vacuum</i> , 2007, 82, 307-310.	3.5	26
84	Morphology and Properties of SEBS Block Copolymer Compatibilized PS/HDPE Blends. <i>Journal of Elastomers and Plastics</i> , 2008, 40, 237-251.	1.5	26
85	Properties of polyimide, polyetheretherketone and polyethyleneterephthalate implanted by Ni ions to high fluences. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 272, 396-399.	1.4	26
86	Macroporous Biodegradable Cryogels of Synthetic Poly(α -amino acids). <i>Biomacromolecules</i> , 2015, 16, 3455-3465.	5.4	26
87	Monolithic intercalated PNIPAm/starch hydrogels with very fast and extensive one-way volume and swelling responses to temperature and pH: prospective actuators and drug release systems. <i>Soft Matter</i> , 2019, 15, 752-769.	2.7	26
88	Cellulose-based graft copolymers with controlled architecture prepared in a homogeneous phase. <i>Journal of Polymer Science Part A</i> , 2011, 49, 4353-4367.	2.3	25
89	Rheology and porosity control of poly(2-hydroxyethyl methacrylate) hydrogels. <i>Polymer</i> , 2013, 54, 661-672.	3.8	25
90	The effect of ionizing radiation on biocompatible polymers: From sterilization to radiolysis and hydrogel formation. <i>Polymer Degradation and Stability</i> , 2017, 137, 1-10.	5.8	25

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91	Structure and mechanical properties of poly(l-lactide)/layered silicate nanocomposites. <i>European Polymer Journal</i> , 2006, 42, 888-899.	5.4	24
92	Increasing recyclability of PC, ABS and PMMA: Morphology and fracture behavior of binary and ternary blends. <i>Journal of Applied Polymer Science</i> , 2008, 109, 3210-3223.	2.6	24
93	Quantification of UHMWPE wear in periprosthetic tissues of hip arthroplasty: Description of a new method based on IR and comparison with radiographic appearance. <i>Wear</i> , 2008, 265, 674-684.	3.1	24
94	Structural and Surface Properties of Novel Polyurethane Films. <i>Materials and Manufacturing Processes</i> , 2009, 24, 1185-1189.	4.7	24
95	Optimization of sol-gel/pyrolysis routes to silicon oxycarbide glasses. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2771-2782.	3.1	24
96	Heterogeneity of accelerated photooxidation in commodity polymers stabilized by HAS: ESRI, IR, and MH study. <i>Polymer Degradation and Stability</i> , 2014, 103, 11-25.	5.8	24
97	Macroporous 2-hydroxyethyl methacrylate hydrogels of dual porosity for cell cultivation: morphology, swelling, permeability, and mechanical behavior. <i>Journal of Polymer Research</i> , 2014, 21, 1.	2.4	24
98	Thermo- and ROS-Responsive Self-Assembled Polymer Nanoparticle Tracers for ¹⁹ F MRI Theranostics. <i>Biomacromolecules</i> , 2021, 22, 2325-2337.	5.4	24
99	Preparation of gram quantities of high-quality titanate nanotubes and their composites with polyamide 6. <i>Materials Chemistry and Physics</i> , 2010, 124, 652-657.	4.0	23
100	Association of Poly(4-hydroxystyrene)- <i>block</i> -Poly(Ethylene oxide) in Aqueous Solutions: Block Copolymer Nanoparticles with Intermixed Blocks. <i>Langmuir</i> , 2012, 28, 307-313.	3.5	23
101	Preparation of Novel, Nanocomposite Stannoxane-Based Organic-Inorganic Epoxy Polymers containing Ionic bonds. <i>Macromolecules</i> , 2012, 45, 221-237.	4.8	23
102	Structure evolution during order-disorder transitions in aliphatic polycarbonate based polyurethanes. <i>Self-healing polymer</i> . <i>Chemical Engineering Journal</i> , 2019, 357, 611-624.	12.7	23
103	Magnetic cobalt oxide nanosheets: green synthesis and in vitro cytotoxicity. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 1423-1432.	3.4	23
104	Adhesive properties of polyester treated by cold plasma in oxygen and nitrogen atmospheres. <i>Surface and Coatings Technology</i> , 2013, 235, 407-416.	4.8	22
105	Thermoplastic polybutadiene-based polyurethane/carbon nanofiber composites. <i>Composites Part B: Engineering</i> , 2014, 67, 434-440.	12.0	22
106	Self-assembly of POSS-containing block copolymers: Fixing the hierarchical structure in networks. <i>Polymer</i> , 2014, 55, 126-136.	3.8	22
107	The orientation-enhancing effect of diphenyl aluminium phosphate nanorods in a liquid-crystalline epoxy matrix ordered by magnetic field. <i>European Polymer Journal</i> , 2015, 72, 238-255.	5.4	22
108	Spermine amides of selected triterpenoid acids: dynamic supramolecular system formation influences the cytotoxicity of the drugs. <i>Journal of Materials Chemistry B</i> , 2020, 8, 484-491.	5.8	22

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109	Long-term accelerated weathering of HAS stabilized PE and PP plaques: Compliance of ESRI, IR, and microhardness data characterizing heterogeneity of photooxidation. <i>Polymer Degradation and Stability</i> , 2015, 120, 114-121.	5.8	21
110	Biodistribution of upconversion/magnetic silica-coated NaGdF ₄ :Yb ³⁺ /Er ³⁺ nanoparticles in mouse models. <i>RSC Advances</i> , 2017, 7, 45997-46006.	3.6	21
111	Well-dispersed polyurethane/cellulose nanocrystal nanocomposites synthesized by a solvent-free procedure in bulk. <i>Polymer Composites</i> , 2019, 40, E456.	4.6	21
112	Probing strong optical fields in compact aggregates of silver nanoparticles by SERRS of protoporphyrin IX. <i>Faraday Discussions</i> , 2006, 132, 121-134.	3.2	20
113	Dilute solutions and phase behavior of polydisperse A-b-(A-co-B) diblock copolymers. <i>Polymer</i> , 2009, 50, 2451-2459.	3.8	20
114	Impact of Dose-Rate on Rheology, Structure and Wear of Irradiated UHMWPE. <i>Journal of Macromolecular Science - Physics</i> , 2009, 48, 587-603.	1.0	20
115	Nanocomposites of polypropylene/titanate nanotubes: morphology, nucleation effects of nanoparticles and properties. <i>Polymer Bulletin</i> , 2014, 71, 795-818.	3.3	20
116	Phase structure evolution during mixing and processing of poly(lactic acid)/polycaprolactone (PLA/PCL) blends. <i>Polymer Bulletin</i> , 2015, 72, 2931-2947.	3.3	20
117	Porous Heat-Treated Polyacrylonitrile Scaffolds for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8496-8506.	8.0	20
118	New fast method for determination of number of UHMWPE wear particles. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 1267-1278.	3.6	19
119	Combined effect of specific nucleation and rubber dispersion on morphology and mechanical behavior of isotactic polypropylene. <i>Journal of Applied Polymer Science</i> , 2007, 103, 3539-3546.	2.6	19
120	Distribution of polyethylene wear particles and bone fragments in periprosthetic tissue around total hip joint replacements. <i>Acta Biomaterialia</i> , 2010, 6, 3595-3600.	8.3	19
121	Surface modification of polyethylene by diffuse barrier discharge plasma. <i>Polymer Engineering and Science</i> , 2013, 53, 516-523.	3.1	19
122	Visualization of carbon nanotubes dispersion in composite by using confocal laser scanning microscopy. <i>European Polymer Journal</i> , 2016, 79, 187-197.	5.4	19
123	Pro-oxidant activity of α -tocopherol during photooxidative degradation of polyolefins. ESRI and IR microspectroscopy studies. <i>Polymer Degradation and Stability</i> , 2017, 138, 55-71.	5.8	19
124	Insight into the cryopolymerization to form a poly(N-isopropylacrylamide)/clay macroporous gel: structure and phase evolution. <i>Soft Matter</i> , 2017, 13, 1244-1256.	2.7	19
125	Electronic structure and bonding in hydroxocobalamin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 1647-1652.	3.9	18
126	Submicrometer characterization of surfaces of epoxy-based organic-inorganic nanocomposite coatings. A comparison of AFM study with currently used testing techniques. <i>Journal of Applied Polymer Science</i> , 2006, 102, 5763-5774.	2.6	18

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127	HDPE/COC blends with fibrous morphology and their properties. <i>European Polymer Journal</i> , 2012, 48, 2031-2039.	5.4	18
128	Properties of organo-clay/natural rubber nanocomposites: Effects of organophilic modifiers. <i>Journal of Applied Polymer Science</i> , 2013, 127, 3447-3455.	2.6	18
129	The characterization of PEEK, PET and PI implanted with Co ions to high fluences. <i>Applied Surface Science</i> , 2013, 275, 311-315.	6.1	18
130	Spectral and microscopic study of self-assembly of novel cationic spermine amides of betulinic acid. <i>Steroids</i> , 2017, 117, 90-96.	1.8	18
131	On the key role of SiO ₂ @POSS hybrid filler in tailoring networking and interfaces in rubber nanocomposites. <i>Polymer Testing</i> , 2018, 65, 429-439.	4.8	18
132	Controlled biodegradability of functionalized thermoplastic starch based materials. <i>Polymer Degradation and Stability</i> , 2019, 170, 108995.	5.8	18
133	Monodisperse Core-Shell NaYF ₄ :Yb ³⁺ /Er ³⁺ @NaYF ₄ :Nd ³⁺ -PEG-GGGRGDSCGGY-NH ₂ Nanoparticles Excitable at 808 and 980 nm: Design, Surface Engineering, and Application in Life Sciences. <i>Frontiers in Chemistry</i> , 2020, 8, 497.	3.6	18
134	Charge density study of hydrogen [(2,4-diaminopyrimidin-1-yl)methyl]phosphonate monohydrate. <i>Acta Crystallographica Section B: Structural Science</i> , 2002, 58, 519-529.	1.8	17
135	Compatibilized iPP/aPS blends: The effect of the viscosity ratio of the components on the blends morphology. <i>Journal of Applied Polymer Science</i> , 2006, 101, 2236-2249.	2.6	17
136	Activation of cellulose by 1,4-dioxane for dissolution in N,N-dimethylacetamide/LiCl. <i>Cellulose</i> , 2012, 19, 1893-1906.	4.9	17
137	Preparation of finely macroporous SiOC foams with high mechanical properties and with hierarchical porosity via pyrolysis of a siloxane/epoxide composite. <i>Ceramics International</i> , 2015, 41, 8402-8410.	4.8	17
138	A Multifunctional Graphene Oxide Platform for Targeting Cancer. <i>Cancers</i> , 2019, 11, 753.	3.7	17
139	Revealing the True Morphological Structure of Macroporous Soft Hydrogels for Tissue Engineering. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6672.	2.5	17
140	Heterogeneous polyamide 66/syndiotactic polystyrene blends: Phase structure and thermal and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2005, 96, 673-684.	2.6	16
141	Nucleation of isotactic polypropylene crystallization by gold nanoparticles. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 469-478.	2.1	16
142	Colloidally Stable P(DMA-AGME)-Ale-Coated Gd(Tb)F ₃ :Tb ³⁺ (Gd ³⁺),Yb ³⁺ ,Nd ³⁺ Nanoparticles as a Multimodal Contrast Agent for Down- and Upconversion Luminescence, Magnetic Resonance Imaging, and Computed Tomography. <i>Nanomaterials</i> , 2021, 11, 230.	4.1	16
143	Effect of micropores on CO ₂ capture in ordered mesoporous CMK-3 carbon at atmospheric pressure. <i>Adsorption</i> , 2021, 27, 1221-1236.	3.0	16
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