Francesco Picchioni

List of Publications by Year
in descending order

173	7,211	94269 37	64668 79
papers	citations	h-index	g-index

176	176	176	7118
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Polymers for enhanced oil recovery: A paradigm for structureâ€“property relationship in aqueous solution. Progress in Polymer Science, 2011, 36, 1558-1628.	11.8	657
2	CO₂-fixation into cyclic and polymeric carbonates: principles and applications. Green Chemistry, 2019, 21, 406-448.	4.6	574
3	Supercritical carbon dioxide as a green solvent for processing polymer melts: Processing aspects and applications. Progress in Polymer Science, 2006, 31, 19-43.	11.8	551
4	Thermally Self-Healing Polymeric Materials: The Next Step to Recycling Thermoset Polymers?. Macromolecules, 2009, 42, 1906-1912.	2.2	419
5	Polymeric surfactants for enhanced oil recovery: A review. Journal of Petroleum Science and Engineering, 2016, 145, 723-733.	2.1	319
6	Ionomeric membranes based on partially sulfonated poly(styrene): synthesis, proton conduction and methanol permeation. Journal of Membrane Science, 2000, 166, 189-197.	4.1	280
7	Polymeric Surfactants: Synthesis, Properties, and Links to Applications. Chemical Reviews, 2015, 115, 8504-8563.	23.0	264
8	Use of Dielsâ€“Alder Chemistry for Thermoreversible Cross-Linking of Rubbers: The Next Step toward Recycling of Rubber Products?. Macromolecules, 2015, 48, 7096-7105.	2.2	220
9	Relationship between Structure and Rheology of Hydrogels for Various Applications. Gels, 2021, 7, 255.	2.1	143
10	Properties of Reversible Dielsâ€“Alder Furan/Maleimide Polymer Networks as Function of Crosslink Density. Macromolecular Chemistry and Physics, 2012, 213, 157-165.	1.1	130
11	Modification of starch: A review on the application of â€œgreenâ€•solvents and controlled functionalization. Carbohydrate Polymers, 2020, 241, 116350.	5.1	130
12	Chemical enhanced oil recovery and the role of chemical product design. Applied Energy, 2019, 252, 113480.	5.1	128
13	The FT-IR studies of the interactions of CO2 and polymers having different chain groups. Journal of Supercritical Fluids, 2006, 36, 236-244.	1.6	94
14	Material encapsulation in poly(methyl methacrylate) shell: A review. Journal of Applied Polymer Science, 2019, 136, 48039.	1.3	81
15	Acrylamide Homopolymers and Acrylamideâ€“<i>N</i>-Isopropylacrylamide Block Copolymers by Atomic Transfer Radical Polymerization in Water. Macromolecules, 2012, 45, 4040-4045.	2.2	68
16	Synthetic aspects and characterization of polypropyleneâ€“silica nanocomposites prepared via solid-state modification and solâ€“gel reactions. Polymer, 2005, 46, 6666-6681.	1.8	66
17	Development of self-healing epoxy composites via incorporation of microencapsulated epoxy and mercaptan in poly(methyl methacrylate) shell. Polymer Testing, 2019, 73, 395-403.	2.3	66
18	Synthesis of Higher Fatty Acid Starch Esters using Vinyl Laurate and Stearate as Reactants. Starch/Staerke, 2008, 60, 667-675.	1.1	65

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19	Long chain branching on linear polypropylene by solid state reactions. European Polymer Journal, 2008, 44, 200-212.	2.6	65
20	Polymeric amines by chemical modifications of alternating aliphatic polyketones. Journal of Applied Polymer Science, 2008, 107, 262-271.	1.3	62
21	Comblike Polyacrylamides as Flooding Agent in Enhanced Oil Recovery. Industrial & Engineering Chemistry Research, 2013, 52, 16352-16363.	1.8	62
22	Grafting of diethyl maleate and maleic anhydride onto styrene- b -(ethylene- co -1-butene)- b -styrene triblock copolymer (SEBS). Polymer, 2000, 41, 4389-4400.	1.8	61
23	Hydrogels Based on Dynamic Covalent and Non Covalent Bonds: A Chemistry Perspective. Gels, 2018, 4, 21.	2.1	60
24	Cross-Linking of Multiwalled Carbon Nanotubes with Polymeric Amines. Macromolecules, 2008, 41, 6141-6146.	2.2	58
25	Polymer and nanoparticles flooding as a new method for Enhanced Oil Recovery. Journal of Petroleum Science and Engineering, 2019, 177, 479-495.	2.1	58
26	Reversible polymer networks containing covalent and hydrogen bonding interactions. European Polymer Journal, 2014, 50, 127-134.	2.6	53
27	Block-Copolymer-Assisted Solubilization of Carbon Nanotubes and Exfoliation Monitoring Through Viscosity. Macromolecular Rapid Communications, 2006, 27, 1073-1078.	2.0	52
28	Supercritical carbon dioxide (scCO2) induced gelatinization of potato starch. Carbohydrate Polymers, 2009, 78, 511-519.	5.1	47
29	Intrinsic self-healing thermoset through covalent and hydrogen bonding interactions. European Polymer Journal, 2016, 81, 186-197.	2.6	47
30	Viability of Biopolymers for Enhanced Oil Recovery. Journal of Dispersion Science and Technology, 2016, 37, 1160-1169.	1.3	47
31	Branched polyacrylamides: Synthesis and effect of molecular architecture on solution rheology. European Polymer Journal, 2013, 49, 3289-3301.	2.6	44
32	Synthesis of fatty acid starch esters in supercritical carbon dioxide. Carbohydrate Polymers, 2010, 82, 346-354.	5.1	43
33	Modeling on the kinetics of an EPDM devulcanization in an internal batch mixer using an amine as the devulcanizing agent. Chemical Engineering Science, 2006, 61, 6442-6453.	1.9	42
34	Polymer Molecular Architecture As a Tool for Controlling the Rheological Properties of Aqueous Polyacrylamide Solutions for Enhanced Oil Recovery. Industrial & Engineering Chemistry Research, 2013, 52, 16993-17005.	1.8	42
35	Polystyreneâ€“Poly(sodium methacrylate) Amphiphilic Block Copolymers by ATRP: Effect of Structure, pH, and Ionic Strength on Rheology of Aqueous Solutions. Macromolecules, 2013, 46, 7106-7111.	2.2	40
36	Extraction of Jatropha curcas proteins and application in polyketone-based wood adhesives. International Journal of Adhesion and Adhesives, 2010, 30, 615-625.	1.4	39

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37	Batch production of micron size particles from poly(ethylene glycol) using supercritical CO2 as a processing solvent. Chemical Engineering Science, 2007, 62, 1712-1720.	1.9	38
38	Self-Healing Polymer Nanocomposite Materials by Joule Effect. Polymers, 2021, 13, 649.	2.0	38
39	Solid-state modification of isotactic polypropylene (iPP) via grafting of styrene. I. Polymerization experiments. Journal of Applied Polymer Science, 2003, 89, 3279-3291.	1.3	37
40	Controlling the aggregation of 5,10,15,20-tetrakis-(4-sulfonatophenyl)-porphyrin by the use of polycations derived from polyketones bearing charged aromatic groups. Dyes and Pigments, 2013, 98, 51-63.	2.0	36
41	EPDM rubber reclaim from devulcanized EPDM. Journal of Applied Polymer Science, 2006, 102, 5948-5957.	1.3	35
42	Comb-like thermoresponsive polymeric materials: Synthesis and effect of macromolecular structure on solution properties. Polymer, 2013, 54, 5456-5466.	1.8	35
43	Modelling a continuous devulcanization in an extruder. Chemical Engineering Science, 2006, 61, 7077-7086.	1.9	34
44	Thermally reversible rubber-toughened thermoset networks via Dielsâ€"Alder chemistry. European Polymer Journal, 2016, 74, 229-240.	2.6	34
45	Synthesis of poly-(Îµ)-caprolactone grafted starch co-polymers by ring-opening polymerisation using silylated starch precursors. Carbohydrate Polymers, 2009, 77, 267-275.	5.1	33
46	Amphiphilic copolymers based on PEGâ€acrylate as surface active water viscosifiers: Towards new potential systems for enhanced oil recovery. Journal of Applied Polymer Science, 2016, 133, .	1.3	33
47	Effect of Rubber Polarity on Cluster Formation in Rubbers Cross-Linked with Dielsâ€"Alder Chemistry. Macromolecules, 2017, 50, 8955-8964.	2.2	33
48	Prediction of toxicity of Ionic Liquids based on GC-COSMO method. Journal of Hazardous Materials, 2020, 398, 122964.	6.5	33
49	Controlled functionalization of olefin/styrene copolymers through free radical processes. Polymers for Advanced Technologies, 2000, 11, 371-376.	1.6	32
50	Green starch conversions: Studies on starch acetylation in densified CO2. Carbohydrate Polymers, 2010, 82, 653-662.	5.1	32
51	A novel method of preparing metallic Janus silica particles using supercritical carbon dioxide. Nanoscale, 2013, 5, 10420.	2.8	32
52	Micromechanical assessment of PMMA microcapsules containing epoxy and mercaptan as self-healing agents. Polymer Testing, 2017, 64, 330-336.	2.3	32
53	Surfactantâ€"Polymer Flooding: Influence of the Injection Scheme. Energy & Fuels, 2018, 32, 12231-12246.	2.5	32
54	Electrically Self-Healing Thermoset MWCNTs Composites Based on Diels-Alder and Hydrogen Bonds. Polymers, 2019, 11, 1885.	2.0	32

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55	Diels-Alder-based thermo-reversibly crosslinked polymers: Interplay of crosslinking density, network mobility, kinetics and stereoisomerism. European Polymer Journal, 2020, 135, 109882.	2.6	32
56	Kinetics of cross-linking and de-cross-linking of EPM rubber with thermoreversible Diels-Alder chemistry. European Polymer Journal, 2017, 90, 150-161.	2.6	31
57	Luminescent Solar Concentrators Based on Renewable Polyester Matrices. Chemistry - an Asian Journal, 2019, 14, 877-883.	1.7	31
58	Surfactant flooding: The influence of the physical properties on the recovery efficiency. Petroleum, 2020, 6, 149-162.	1.3	30
59	Investigation of the interaction of CO₂ with poly (<scp>L</scp>â€‐lactide), poly(<scp>DL</scp>â€‐lactide) and poly(Îµâ€‐caprolactone) using FTIR spectroscopy. Journal of Applied Polymer Science, 2008, 109, 3376-3381.	1.3	29
60	Experimental and Modeling Studies on the Synthesis and Properties of Higher Fatty Esters of Corn Starch. Starch/Staerke, 2009, 61, 69-80.	1.1	27
61	Green/Yellowâ€‐Emitting Conjugated Heterocyclic Fluorophores for Luminescent Solar Concentrators. European Journal of Organic Chemistry, 2018, 2018, 2657-2666.	1.2	27
62	Plenty of Room at the Bottom: Nanotechnology as Solution to an Old Issue in Enhanced Oil Recovery. Applied Sciences (Switzerland), 2018, 8, 2596.	1.3	27
63	The effect of hydrophilic and hydrophobic block length on the rheology of amphiphilic diblock Polystyrene-b-Poly(sodium methacrylate) copolymers prepared by ATRP. Journal of Colloid and Interface Science, 2014, 428, 152-161.	5.0	26
64	Thermo-Responsive Starch-g-(PAM-co-PNIPAM): Controlled Synthesis and Effect of Molecular Components on Solution Rheology. Polymers, 2018, 10, 92.	2.0	26
65	Synthesis and properties of reactive interfacial agents for polycaprolactoneâ€‐starch blends. Journal of Applied Polymer Science, 2009, 114, 2315-2326.	1.3	25
66	Star-Like Branched Polyacrylamides by RAFT polymerization, Part II: Performance Evaluation in Enhanced Oil Recovery (EOR). Industrial & Engineering Chemistry Research, 2018, 57, 8835-8844.	1.8	25
67	Blends of syndiotactic polystyrene with SEBS triblock copolymers. Polymer, 2002, 43, 3323-3329.	1.8	24
68	Solid-state modification of polypropylene(PP): grafting of styrene on atactic PP. Macromolecular Symposia, 2001, 176, 245-264.	0.4	22
69	Rheokinetics and effect of shear rate on the kinetics of linear polyurethane formation. Polymer Engineering and Science, 2005, 45, 279-287.	1.5	22
70	Use of soy proteins in polyketone-based wood adhesives. International Journal of Adhesion and Adhesives, 2010, 30, 626-635.	1.4	21
71	Formation and compatibilizing effect of the grafted copolymer in the reactive blending of 2-diethylsuccinate containing polyolefins with poly-Îµ-caprolactam (nylon-6). Polymers for Advanced Technologies, 1998, 9, 273-281.	1.6	20
72	Supercritical carbon dioxide and polymers: an interplay of science and technology. Polymer International, 2014, 63, 1394-1399.	1.6	20

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73	Synthesis and properties of crossâ€linked polymers from epoxidized rubber seed oil and triethylenetetramine. Journal of Applied Polymer Science, 2015, 132, .	1.3	20
74	Synthesis of Zwitterionic Copolymers via Copper-mediated Aqueous Living Radical Grafting Polymerization on Starch. Polymers, 2019, 11, 192.	2.0	20
75	A Hierarchical Hybrid Method for Screening Ionic Liquid Solvents for Extractions Exemplified by the Extractive Desulfurization Process. ACS Sustainable Chemistry and Engineering, 2021, 9, 2705-2716.	3.2	20
76	Prediction of the viscosity reduction due to dissolved CO2 of and an elementary approach in the supercritical CO2 assisted continuous particle production of a polyester resin. Powder Technology, 2006, 170, 143-152.	2.1	19
77	Processâ€product studies on starch acetylation reactions in pressurised carbon dioxide. Starch/Staerke, 2010, 62, 566-576.	1.1	19
78	Insights in starch acetylation in sub- and supercritical CO2. Carbohydrate Research, 2011, 346, 1224-1231.	1.1	19
79	Cross-linking of rubber in the presence of multi-functional cross-linking aids via thermoreversible Diels-Alder chemistry. European Polymer Journal, 2016, 82, 208-219.	2.6	19
80	Numerical modeling of a compositional flow for chemical EOR and its stability analysis. Applied Mathematical Modelling, 2017, 47, 141-159.	2.2	19
81	Electrically-Responsive Reversible Polyketone/MWCNT Network through Diels-Alder Chemistry. Polymers, 2018, 10, 1076.	2.0	19
82	Surfactant-Polymer Interactions in a Combined Enhanced Oil Recovery Flooding. Energies, 2020, 13, 6520.	1.6	19
83	Maleimide Self-Reaction in Furan/Maleimide-Based Reversibly Crosslinked Polyketones: Processing Limitation or Potential Advantage?. Molecules, 2021, 26, 2230.	1.7	19
84	Electroactive Self-Healing Shape Memory Polymer Composites Based on Dielsâ€"Alder Chemistry. ACS Applied Polymer Materials, 2021, 3, 6147-6156.	2.0	19
85	Synthesis and refining of sunflower biodiesel in a cascade of continuous centrifugal contactor separators. European Journal of Lipid Science and Technology, 2015, 117, 242-254.	1.0	18
86	Influence of the polymer degradation on enhanced oil recovery processes. Applied Mathematical Modelling, 2019, 69, 142-163.	2.2	17
87	Solid-state NMR spectroscopy insights for resolving different water pools in alginate hydrogels. Food Hydrocolloids, 2022, 127, 107500.	5.6	17
88	Confinement Effect in Diffusion-Controlled Stepwise Polymerization by Monte Carlo Simulation. Journal of Physical Chemistry B, 2006, 110, 12281-12288.	1.2	16
89	The use of experimental design to study the responses of continuous devulcanization processes. Journal of Applied Polymer Science, 2006, 102, 5028-5038.	1.3	16
90	Branched polymers and nanoparticles flooding as separate processes for enhanced oil recovery. Fuel, 2019, 257, 115996.	3.4	16

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91	Acrylamideâ€‹<i>bâ€‹N</i>â€‹isopropylacrylamide block copolymers: Synthesis by atomic transfer radical polymerization in water and the effect of the hydrophilicâ€“hydrophobic ratio on the solution properties. Journal of Applied Polymer Science, 2014, 131, .	1.3	15
92	Thermoreversibly Cross-Linked EPM Rubber Nanocomposites with Carbon Nanotubes. Nanomaterials, 2018, 8, 58.	1.9	15
93	Extraction of Acids and Bases from Aqueous Phase to a Pseudoprotic Ionic Liquid. Molecules, 2019, 24, 894.	1.7	15
94	An easy synthetic way to exfoliate and stabilize MWCNTs in a thermoplastic pyrrole-containing matrix assisted by hydrogen bonds. RSC Advances, 2016, 6, 85829-85837.	1.7	14
95	Water-swellable elastomers: synthesis, properties and applications. Reviews in Chemical Engineering, 2018, 35, 45-72.	2.3	14
96	Effect of the Polyketone Aromatic Pendent Groups on the Electrical Conductivity of the Derived MWCNTs-Based Nanocomposites. Polymers, 2018, 10, 618.	2.0	14
97	Methods in Oil Recovery Processes and Reservoir Simulation. Advances in Chemical Engineering and Science, 2016, 06, 39-435.	0.2	14
98	All-dry, one-step synthesis, doping and film formation of conductive polypyrrole. Journal of Materials Chemistry C, 2022, 10, 557-570.	2.7	14
99	Solubilities of sub- and supercritical carbon dioxide in polyester resins. Polymer Engineering and Science, 2006, 46, 643-649.	1.5	13
100	Intermolecular interactions between carbon dioxide and the carbonyl groups of polylactides and poly(Îµ-caprolactone). Journal of Controlled Release, 2006, 116, e38-e40.	4.8	13
101	State of the Art: Recycling of EPDM Rubber Vulcanizates. International Polymer Processing, 2006, 21, 211-217.	0.3	13
102	Experimental and modeling studies on the solubility of subâ€•and supercritical carbon dioxide (scCO₂) in potato starch and derivatives. Polymer Engineering and Science, 2011, 51, 28-36.	1.5	13
103	Influence of the chemical structure of cross-linking agents on properties of thermally reversible networks. Pure and Applied Chemistry, 2016, 88, 1103-1116.	0.9	13
104	Thermally Switchable Electrically Conductive Thermoset rGO/PK Self-Healing Composites. Polymers, 2021, 13, 339.	2.0	13
105	Novel non-ionic surfactants synthesised through the reaction of CO2 with long alkyl chain epoxides. Journal of CO2 Utilization, 2021, 50, 101577.	3.3	13
106	Solid-state modification of isotactic polypropylene (iPP) via grafting of styrene. II. Morphology and melt processing. Journal of Applied Polymer Science, 2005, 97, 575-583.	1.3	12
107	Totally Organic Redox-Active pH-Sensitive Nanoparticles Stabilized by Amphiphilic Aromatic Polyketones. Journal of Physical Chemistry B, 2018, 122, 1747-1755.	1.2	12
108	Blends of Syndiotactic Polystyrene with SBS Triblock Copolymers. Macromolecular Chemistry and Physics, 2001, 202, 2142-2147.	1.1	11

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109	Novel polyketones with pendant imidazolium groups as nanodispersants of hydrophobic antibiotics. Journal of Applied Polymer Science, 2015, 132, .	1.3	11
110	The Green Route from Carbon Monoxide Fixation to Functional Polyamines: A Class of High-Performing Metal Ion Scavengers. Industrial & Engineering Chemistry Research, 2015, 54, 9450-9457.	1.8	11
111	Synthesis and Linear Viscoelasticity of Polystyrene Stars with a Polyketone Core. Macromolecules, 2015, 48, 6662-6671.	2.2	11
112	Thermoreversible Cross-Linking of Furan-Containing Ethylene/Vinyl Acetate Rubber with Bismaleimide. Polymers, 2017, 9, 81.	2.0	11
113	Synthesis of tuneable amphiphilic-modified polyketone polymers, their complexes with 5,10,15,20-tetrakis-(4-sulfonatophenyl)porphyrin, and their role in the photooxidation of 1,3,5-triphenylformazan confined in polymeric nanoparticles. Polymer, 2019, 167, 215-223.	1.8	11
114	Electrically-Conductive Polyketone Nanocomposites Based on Reduced Graphene Oxide. Polymers, 2020, 12, 923.	2.0	11
115	Computer-Aided Ionic Liquid Design and Experimental Validation for Benzeneâ€“Cyclohexane Separation. Industrial & Engineering Chemistry Research, 2021, 60, 4951-4961.	1.8	11
116	Triblock copolymers of styrene and sodium methacrylate as smart materials: synthesis and rheological characterization. Pure and Applied Chemistry, 2017, 89, 1641-1658.	0.9	10
117	Thermoresponsive comb polymers as thickeners for high temperature aqueous fluids. Materials Today Communications, 2017, 10, 34-40.	0.9	10
118	Copper-mediated homogeneous living radical polymerization of acrylamide with waxy potato starch-based macroinitiator. Carbohydrate Polymers, 2018, 192, 61-68.	5.1	10
119	Influence of physical and rheological properties of sweeping fluids on the residual oil saturation at the micro- and macroscale. Journal of Non-Newtonian Fluid Mechanics, 2020, 286, 104444.	1.0	10
120	Preliminary evaluation of amphiphilic block polyelectrolytes as potential flooding agents for low salinity chemical enhanced oil recovery. Journal of Petroleum Science and Engineering, 2021, 198, 108181.	2.1	10
121	Blending of styrene-block-butadiene-block-styrene copolymer with sulfonated vinyl aromatic polymers. Polymer International, 2001, 50, 714-721.	1.6	9
122	Blends of SBS triblock copolymer with poly(2,6-dimethyl-1,4-phenylene oxide)/polystyrene mixture. Journal of Applied Polymer Science, 2003, 88, 2698-2705.	1.3	9
123	Aqueous polymer emulsions by chemical modifications of thermosetting alternating polyketones. Journal of Applied Polymer Science, 2007, 106, 3237-3247.	1.3	9
124	Experimental studies on the ring opening polymerization of p-dioxanone using an Al(OiPr)3-monosaccharide initiator system. European Polymer Journal, 2009, 45, 155-164.	2.6	9
125	Material properties and processing in chemical product design. Current Opinion in Chemical Engineering, 2012, 1, 459-464.	3.8	9
126	Paal-Knorr kinetics in waterborne polyketone-based formulations as modulating cross-linking tool in electrodeposition coatings. Materials and Design, 2016, 108, 718-724.	3.3	9

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127	Acetylation of xanthan gum in densified carbon dioxide (CO2). Materials Today: Proceedings, 2018, 5, 21551-21558.	0.9	9
128	Starlike Branched Polyacrylamides by RAFT Polymerizationâ€”Part I: Synthesis and Characterization. ACS Omega, 2018, 3, 18762-18770.	1.6	9
129	Green Processes for Green Products: The Use of Supercritical CO2 as Green Solvent for Compatibilized Polymer Blends. Polymers, 2018, 10, 1285.	2.0	9
130	Dielsâ€“Alder-Crosslinked Polymers Derived from Jatropha Oil. Polymers, 2018, 10, 1177.	2.0	8
131	Design of a pH-Responsive Conductive Nanocomposite Based on MWCNTs Stabilized in Water by Amphiphilic Block Copolymers. Nanomaterials, 2019, 9, 1410.	1.9	8
132	Designing Endâ€ofâ€Life Recyclable Polymers via Dielsâ€“Alder Chemistry: A Review on the Kinetics of Reversible Reactions. Macromolecular Rapid Communications, 2022, 43, e2200023.	2.0	8
133	Alginate Modification and Lectin-Conjugation Approach to Synthesize the Mucoadhesive Matrix. Applied Sciences (Switzerland), 2021, 11, 11818.	1.3	8
134	Cyclopentadieneâ€functionalized polyketone as selfâ€crossâ€linking thermoâ€reversible thermoset with increased softening temperature. Journal of Applied Polymer Science, 2016, 133, .	1.3	7
135	Numerical Modeling and Validation of a Novel 2D Compositional Flooding Simulator Using a Second-Order TVD Scheme. Energies, 2018, 11, 2280.	1.6	7
136	The effect of macromolecular structure on the rheology and surface properties of amphiphilic random polystyrene-<i>r</i>-poly(meth)acrylate copolymers prepared by RDRP. Soft Matter, 2020, 16, 2836-2846.	1.2	7
137	A Structureâ€Properties Relationship Study of Selfâ€Healing Materials Based on Styrene and Furfuryl Methacrylate Crossâ€Linked via Dielsâ€“Alder Chemistry. Macromolecular Materials and Engineering, 2021, 306, 2000755.	1.7	7
138	Pickering Emulsions and Antibubbles Stabilized by PLA/PLGA Nanoparticles. Langmuir, 2022, 38, 182-190.	1.6	7
139	Ti and Zr amino-tris(phenolate) catalysts for the synthesis of cyclic carbonates from CO2 and epoxides. Green Chemical Engineering, 2022, 3, 171-179.	3.3	7
140	Rapid self-healing in IR-responsive plasmonic indium tin oxide/polyketone nanocomposites. Journal of Materials Chemistry A, 2022, 10, 12957-12967.	5.2	7
141	RAFT Polymerization of a Biorenewable/Sustainable Monomer via a Green Process. Macromolecular Rapid Communications, 2022, 43, e2200045.	2.0	7
142	Synthesis of sago starch laurate in densified carbon dioxide. Polymer Engineering and Science, 2018, 58, 291-299.	1.5	6
143	THERMOREVERSIBLE CROSS-LINKING OF RUBBER COMPOUNDS: FROM PROOF-OF-CONCEPT TOWARD AN INDUSTRIAL PROCESS. Rubber Chemistry and Technology, 2018, 91, 492-508.	0.6	6
144	Acetalised Galactarate Polyesters: Interplay between Chemical Structure and Polymerisation Kinetics. Polymers, 2018, 10, 248.	2.0	6

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145	Precise Block-Copolymers by Efficient Coupling of End-Functionalized Polymers Using Phosgene. Macromolecular Rapid Communications, 2006, 27, 242-246.	2.0	5
146	Functional polyketones for the removal of calcium and magnesium from water (part I): synthesis and chemical characterization. Pure and Applied Chemistry, 2017, 89, 41-50.	0.9	5
147	Recyclability of Photoinduced Cross-Linked EPM Rubber with Anthracene-Grafted Groups: Problems and Their Solutions. ACS Omega, 2020, 5, 30454-30460.	1.6	5
148	Thermally Reversible Polymeric Networks from Vegetable Oils. Polymers, 2020, 12, 1708.	2.0	5
149	Bio-Based Aromatic Polyesters Reversibly Crosslinked via the Dielsâ€"Alder Reaction. Applied Sciences (Switzerland), 2022, 12, 2461.	1.3	5
150	Blends of styrene-butadiene-styrene triblock copolymer with random styrene-maleic anhydride copolymers. Macromolecular Chemistry and Physics, 2002, 203, 1396-1402.	1.1	4
151	Functional polyketones for the removal of calcium and magnesium from water (Part II): cross-linking and functional characterization. Pure and Applied Chemistry, 2017, 89, 51-60.	0.9	4
152	Implementation of the UNIQUAC model in the OpenCalphad software. Fluid Phase Equilibria, 2020, 507, 112398.	1.4	4
153	Towards Thermally Reversible Networks Based on Furan-Functionalization of Jatropha Oil. Molecules, 2020, 25, 3641.	1.7	4
154	Iron Tetrasulfonatophthalocyanine-Catalyzed Starch Oxidation Using H₂O₂: Interplay between Catalyst Activity, Selectivity, and Stability. ACS Omega, 2021, 6, 13847-13857.	1.6	4
155	Exploring the influence of electron beam crosslinking in <scp>SEBS</scp>/<scp>TPU</scp> and <scp>SEBSâ€gâ€MA</scp>/<scp>TPU</scp> thermoplastic elastomer blends. Journal of Applied Polymer Science, 2022, 139, 51721.	1.3	4
156	pH-Responsive Polyketone/5,10,15,20-Tetrakis-(Sulfonatophenyl)Porphyrin Supramolecular Submicron Colloidal Structures. Polymers, 2020, 12, 2017.	2.0	3
157	Mechanical properties and electrical surface charges of microfibrillated cellulose/imidazole-modified polyketone composite membranes. Polymer Testing, 2020, 89, 106710.	2.3	3
158	Cross-Linking of Polypropylene via the Dielsâ€"Alder Reaction. Polymers, 2022, 14, 1176.	2.0	3
159	The Preparation and Properties of Thermo-reversibly Cross-linked Rubber Via Diels-Alder Chemistry. Journal of Visualized Experiments, 2016, , .	0.2	2
160	Influence of the polymer properties and numerical schemes on tertiary oil recovery processes. Computers and Mathematics With Applications, 2020, 79, 1094-1110.	1.4	2
161	RECYCLING BEHAVIOR OF THERMOREVERSIBLY DIELSâ€"ALDER CROSSLINKED EPM. Rubber Chemistry and Technology, 2021, 94, 288-297.	0.6	2
162	Kinetic Study on the Sulfuric Acid-Catalyzed Conversion of <scp>d</scp>-Galactose to Levulinic Acid in Water. Industrial & Engineering Chemistry Research, 2022, 61, 9178-9191.	1.8	2

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163	Practical application of thermoreversibly Cross-linked rubber products. IOP Conference Series: Materials Science and Engineering, 2017, 223, 012004.	0.3	1
164	Simulation of Surfactant Oil Recovery Processes and the Role of Phase Behaviour Parameters. Energies, 2019, 12, 983.	1.6	1
165	Highly Branched Waxy Potato Starch-Based Polyelectrolyte: Controlled Synthesis and the Influence of Chain Composition on Solution Rheology. Industrial & Engineering Chemistry Research, 2020, 59, 10847-10856.	1.8	1
166	Sustainable EPM rubber compounds. Polymer-Plastics Technology and Materials, 2020, 59, 1379-1385.	0.6	1
167	Synthesis and solution properties of poly(p,Î± dimethylstyrene-co-maleic anhydride): The use of a monomer potentially obtained from renewable sources as a substitute of styrene in amphiphilic copolymers. Reactive and Functional Polymers, 2022, 172, 105204.	2.0	1
168	Cross-Linking of Polypropylene with Thiophene and Imidazole. Polymers, 2022, 14, 2198.	2.0	1
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