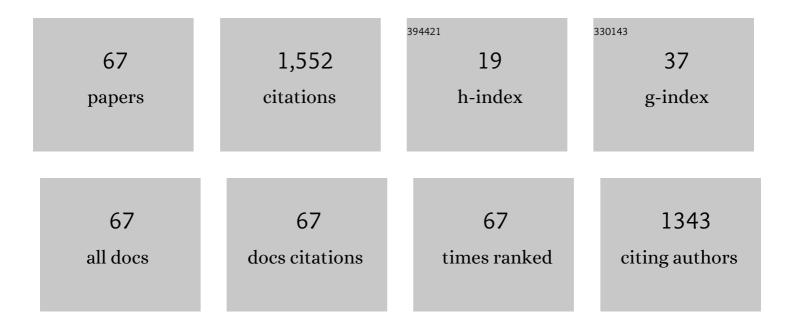
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Thermal aging of acrylic-urethane network: Kinetic modeling and end-of-life criteria combined with mechanical properties. Progress in Organic Coatings, 2022, 163, 106654.	3.9	4
2	Molecular-scale deformation of glass-fiber-reinforced polypropylene probed by rheo-optical Fourier transform infrared imaging combined with a two-trace two-dimensional correlation technique. Polymer, 2022, 241, 124536.	3.8	5
3	In-situ infrared cure monitoring combined with two-trace two-dimensional (2T2D) correlation analysis to elucidate the matrix–filler interaction of nanocomposites: Case of thermosetting urethane/silica nanospheres. Polymer Testing, 2022, 112, 107587.	4.8	3
4	Aging of polypropylene probed by near infrared spectroscopy. Journal of Near Infrared Spectroscopy, 2021, 29, 259-268.	1.5	2
5	Fourier Transform Infrared Imaging Analysis of Interactions Between Polypropylene Grafted with Maleic Anhydride and Silica Spheres Using Two-Trace Two-Dimensional Correlation Mapping. Applied Spectroscopy, 2021, 75, 947-956.	2.2	8
6	Role of moisture in photo-ageing -macromolecular architecture evolution of acrylic-urethane network. Polymer Testing, 2021, 96, 107123.	4.8	5
7	Three-way evolved gas analysis-mass spectrometry combined with principal component analysis (ECA-MS-PCA) to probe interfacial states between matrix and filler in poly(styrene-b-butadiene-b-styrene) (SBS) nanocomposites. Polymer Testing, 2021, 101, 107300.	4.8	5
8	Study of matrix-filler interaction of polypropylene/silica composite by combined infrared (IR) spectroscopic imaging and disrelation mapping. Composites Part A: Applied Science and Manufacturing, 2020, 128, 105658.	7.6	18
9	Challenges in prediction of significant structural changes during photochemical "degelation―of acrylic-urethane network. Polymer, 2020, 186, 122035.	3.8	10
10	Molecular-Scale Deformation of Polypropylene/Silica Composites Probed by Rheo-Optical Fourier-Transform Infrared (FTIR) Imaging Analysis Combined with Disrelation Mapping. Analytical Chemistry, 2020, 92, 12160-12167.	6.5	17
11	Insight into interfacial compatibilization of glass-fiber-reinforced polypropylene (PP) using maleic-anhydride modified PP employing infrared spectroscopic imaging. Composites Science and Technology, 2020, 199, 108379.	7.8	30
12	<i>In Situ</i> Fourier Transform Infrared Spectroscopic Imaging for Elucidating Variations in Chemical Structures of Polymer Composites at the Matrix–Filler Interface during Reactive Processing. Macromolecules, 2020, 53, 10711-10717.	4.8	7
13	A study of molecular architectural dynamics of crosslinked urethane during photo-aging by two-dimensional infrared correlation spectroscopy. Polymer Degradation and Stability, 2020, 179, 109242.	5.8	7
14	Polypropylene-Based Nanocomposite with Enhanced Aging Stability by Surface Grafting of Silica Nanofillers with a Silane Coupling Agent Containing an Antioxidant. ACS Omega, 2020, 5, 12431-12439.	3.5	20
15	Accelerated aging-induced variation of polypropylene (PP) structure studied by two-dimensional (2D) small-angle X-ray scattering (SAXS) correlation spectroscopy. Journal of Molecular Structure, 2020, 1207, 127764.	3.6	8
16	Rheo-Optical Near-Infrared (NIR) Characterization of Hydroxyl-Functionalized Polypropylene (PPOH)-Mesoporous Silica Nanocomposites Using Two-Trace Two-Dimensional (2T2D) Correlation Analysis. Applied Spectroscopy, 2019, 73, 000370281986156.	2.2	8
17	Temperature dependence of structural alteration by ultraviolet irradiation in acrylic-urethane coatings studied by positron annihilation spectroscopy and solvent swelling behavior. Polymer Degradation and Stability, 2019, 162, 85-93.	5.8	11
18	Management of both toughness and stiffness of polypropylene nanocomposites using poly(5â€hexenâ€1â€olâ€ <i>co</i> â€propylene) and silica nanospheres. Polymers for Advanced Technologies, 20 29, 417-423.	18,2	9

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19	Degradation mechanism of carbon fiber-reinforced thermoplastics exposed to hot steam studied by chemical and structural analyses of nylon 6 matrix. Composites Part A: Applied Science and Manufacturing, 2018, 112, 126-133.	7.6	12
20	Structure-property relationships of polypropylene-based nanocomposites obtained by dispersing mesoporous silica into hydroxyl-functionalized polypropylene. Part 1: toughness, stiffness and transparency. Polymer Journal, 2018, 50, 1057-1065.	2.7	24
21	Structureâ^'property relationships of polypropylene-based nanocomposites obtained by dispersing mesoporous silica into hydroxyl-functionalized polypropylene. Part 2: Matrixâ^'filler interactions and pore filling of mesoporous silica characterized by evolved gas analysis. Polymer Journal, 2018, 50, 1067-1077.	2.7	14
22	Lamination-interface-dependent deacetylation of ethylene vinyl acetate encapsulant in crystalline Si photovoltaic modules evaluated by positron annihilation lifetime spectroscopy. Japanese Journal of Applied Physics, 2018, 57, 082301.	1.5	5
23	Reinforcement mechanism of functionalized polypropylene containing hydroxyl group nanocomposites studied by rheo-optical near-infrared spectroscopy. European Polymer Journal, 2017, 92, 86-96.	5.4	20
24	Highly Accelerated Aging Method for Poly(ethylene terephthalate) Film Using Xenon Lamp with Heating System. Journal of Polymers, 2016, 2016, 1-9.	0.9	16
25	Quick Preparation of Moisture-Saturated Carbon Fiber-Reinforced Plastics and Their Accelerated Ageing Tests Using Heat and Moisture. Polymers, 2016, 8, 242.	4.5	5
26	Degradation of encapsulants for photovoltaic modules made of ethylene vinyl acetate studied by positron annihilation lifetime spectroscopy. Japanese Journal of Applied Physics, 2016, 55, 102302.	1.5	5
27	Experimental and modeling approaches for the formation of hydroperoxide during the auto-oxidation of polymers: Thermal-oxidative degradation of polyethylene oxide. Chemical Physics Letters, 2016, 657, 83-89.	2.6	20
28	Highly ductile polypropylene-based nanocomposites by dispersing monodisperse silica nanospheres in functionalized polypropylene containing hydroxyl groups. Polymer, 2016, 99, 63-71.	3.8	17
29	Two-dimensional (2D) Chemiluminescence (CL) correlation spectroscopy for studying thermal oxidation of isotactic polypropylene (iPP). Journal of Molecular Structure, 2016, 1124, 238-243.	3.6	4
30	Fulleropyrrolidine Derivatives with Benzophenone Moiety as Electron Acceptors in Thermally Stable Organic Photovoltaic Devices. Chemistry Letters, 2015, 44, 527-529.	1.3	5
31	Depth profiling of the free-volume holes in cellulose triacetate hollow-fiber membranes for reverse osmosis by means of variable-energy positron annihilation lifetime spectroscopy. Desalination, 2014, 344, 86-89.	8.2	18
32	Free-volume hole size evaluated by positron annihilation lifetime spectroscopy in the amorphous part of poly(ethylene terephthalate) degraded by a weathering test. Polymer Degradation and Stability, 2014, 110, 389-394.	5.8	14
33	Comprehensive Study of Altered Amorphous Structure in Functionalized Polypropylenes Exhibiting High Tensile Strength. Macromolecules, 2013, 46, 4432-4437.	4.8	23
34	Analysis of chemiluminescence spectra in oxidative degradation of oleic acid. Chemical Physics Letters, 2013, 565, 138-142.	2.6	9
35	Synthesis of ethylene–styrene copolymer containing syndiotactic polystyrene sequence by trivalent titanium catalyst. Polymer Journal, 2012, 44, 147-154.	2.7	5
36	Highly thermostable and low birefringent norborneneâ€styrene copolymers with advanced optical properties: A potential plastic substrate for flexible displays. Journal of Polymer Science Part A, 2011, 49, 65-71.	2.3	28

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37	Additive effects of alkylaluminium compounds on propylene-1,3-butadiene copolymerization using isospecific zirconocene catalysts. Journal of Organometallic Chemistry, 2010, 695, 1694-1699.	1.8	9
38	Polystyrene with half-titanocene/MAO catalysts: Influence of 2,6-diisopropylphenol. Applied Catalysis A: General, 2009, 360, 126-129.	4.3	3
39	Unexpected Mechanical Properties of Functionalized Polypropylene: Tensile Test, Charpy Impact Tensile Test, DSC, and WAXD Analysis of Poly(5-hexen-1-ol- <i>co</i> -propylene). Macromolecules, 2009, 42, 2321-2323.	4.8	22
40	Precise control of microstructure of functionalized polypropylene synthesized by the <i>ansa</i> â€girconocene/ MAO catalysts. Journal of Polymer Science Part A, 2008, 46, 1738-1748.	2.3	33
41	A new approach for controlling birefringent property of cyclic olefin copolymers. Journal of Polymer Science Part A, 2008, 46, 7395-7400.	2.3	13
42	Local Packing Disorders in a Polymer Crystal by Two Dimensional Solid-State NMR. Macromolecules, 2007, 40, 6789-6792.	4.8	14
43	Microstructure and Thermal Property of Isotactic Poly(3-methyl-1-butene) Obtained Using the C2-Symmetrical Zirconocene/MAO Catalyst System. Macromolecules, 2007, 40, 1763-1766.	4.8	12
44	Copolymerization of propylene with 1,3â€butadiene using isospecific zirconocene catalysts. Journal of Polymer Science Part A, 2007, 45, 5731-5740.	2.3	17
45	Microstructural Analysis of Insoluble Polyolefins by Melt-State13C NMR at Very High Temperatures. Macromolecules, 2007, 40, 3505-3509.	4.8	10
46	A New Approach to Styrenic Thermoplastic Elastomers:Â Synthesis and Characterization of Crystalline Styreneâ^'Butadieneâ^'Styrene Triblock Copolymersâ€. Macromolecules, 2006, 39, 171-176.	4.8	61
47	Stereospecific polymerization of propylene with group 4 ansa-fluorenylamidodimethyl complexes. Journal of Organometallic Chemistry, 2006, 691, 193-201.	1.8	42
48	Copolymerization of ethylene or propylene with ?-olefins containing hydroxyl groups with zirconocene/methylaluminoxane catalyst. Journal of Polymer Science Part A, 2004, 42, 52-58.	2.3	50
49	Copolymerization of 3-buten-1-ol and propylene with an isospecific zirconocene/methylaluminoxane catalyst. Journal of Polymer Science Part A, 2004, 42, 5600-5607.	2.3	25
50	Copolymerization of Propylene and Polar Allyl Monomer with Zirconocene/Methylaluminoxane Catalyst:Â Catalytic Synthesis of Amino-Terminated Isotactic Polypropylene. Macromolecules, 2004, 37, 5145-5148.	4.8	56
51	Recent Developments in Transition Metal-Catalyzed Polymerization I. Polymerization of Olefins by Tebbe-Type Ti(III) Complex/Methylaluminoxane Catalyst Kobunshi Ronbunshu, 2002, 59, 250-252.	0.2	1
52	Alternating Copolymerization of Ethylene and 5-Hexen-1-ol with [Ethylene(1-indenyl)(9-fluorenyl)]-zirconium Dichloride/Methylaluminoxane as the Catalyst. Macromolecular Rapid Communications, 2001, 22, 353-357.	3.9	48
53	Development of novel MgCl2 supported catalyst with trivalent titanocene complex of CP2TiCl2AlCl2 for propylene polymerization. Journal of Polymer Science Part A, 2000, 38, 3355-3359.	2.3	2
54	Additive effects of trialkylaluminum on propene polymerization with (t-BuNSiMe2Flu)TiMe2-based catalysts. Applied Catalysis A: General, 2000, 200, 145-152.	4.3	21

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55	Development of novel MgCl2 supported catalyst with trivalent titanocene complex of CP2TiCl2AlCl2 for propylene polymerization. Journal of Polymer Science Part A, 2000, 38, 3355-3359.	2.3	Ο
56	Direct evidence of the second-order dependence of propagation rate on propene concentration in living polymerization with the [t-BuNSiMe2Flu]TiMe2/B(C6F5)3 catalyst. Macromolecular Rapid Communications, 1999, 20, 200-202.	3.9	8
57	Kinetic Features of Living Polymerization of Propene with the [t-BuNSiMe2Flu]TiMe2/B(C6F5)3 Catalyst. , 1999, , 264-273.		5
58	Polymerization of methyl methacrylate with non-bridged zirconocene catalysts. Macromolecular Chemistry and Physics, 1998, 199, 1573-1579.	2.2	28
59	Stereospecificity of propene polymerization with achiral titanocene-based catalysts. Macromolecular Chemistry and Physics, 1998, 199, 2439-2444.	2.2	10
60	Living Polymerization of Propene and 1-Hexene with the [t-BuNSiMe2Flu]TiMe2/B(C6F5)3 Catalyst. Macromolecules, 1998, 31, 3184-3188.	4.8	128
61	Additive Effects of Lewis Bases on Propene Polymerization over MgCl2-Supported TiCl4 Catalysts Combined with Cp2TiMe2. Polymer Journal, 1997, 29, 224-229.	2.7	4
62	Novelty of Vinylidene-Terminated Polypropylene Prepared by a MgCl2-Supported TiCl4 Catalyst Combined with AlEt3 as Cocatalyst. Macromolecules, 1997, 30, 5997-6000.	4.8	18
63	Syndiospecific Polymerization of Propene with [t-BuNSiMe2Flu]TiMe2-Based Catalysts by Chain-End Controlled Mechanism. Macromolecules, 1997, 30, 4783-4785.	4.8	43
64	Control of molecular weight distribution of isotactic polypropylene obtained by a MgCl2-supported TiCl4 catalyst. Polymer, 1997, 38, 6409-6411.	3.8	7
65	Quantitative self-assembly of a [2]catenane from two preformed molecular rings. Nature, 1994, 367, 720-723.	27.8	440
66	Effect of Hydrophilicity of the Sidechains on the Amorphous Structure of Polypropylene Derivatives Studied by Positronium Lifetime Measurements. Materials Science Forum, 0, 733, 159-162.	0.3	1
67	Amorphous polyamide m â€xylylenediamineâ€adipic acidâ€isophthalic acid copolymer (MXD6I) : Evaluation of oxygen barrier property and free volume in high humidity condition. Polymers for Advanced Technologies. 0	3.2	0