

# Fabio Bertini

## List of Publications by Citations

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110  
papers

2,638  
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113  
ext. papers

2,842  
ext. citations

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L-index

#	Paper	IF	Citations
110	Thermal degradation behaviour of isotactic polypropylene blended with lignin. <i>Polymer Degradation and Stability</i> , <b>2006</b> , 91, 494-498	4.7	117
109	Bio-based conductive composites: Preparation and properties of polypyrrole (PPy)-coated silk fabrics. <i>Synthetic Metals</i> , <b>2009</b> , 159, 246-253	3.6	108
108	Supermolecular structure and thermal properties of poly(ethylene terephthalate)/lignin composites. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 3151-3157	8.6	108
107	Characterization and thermal degradation of polypropylene/montmorillonite nanocomposites. <i>Polymer Degradation and Stability</i> , <b>2006</b> , 91, 600-605	4.7	98
106	Effect of ligno-derivatives on thermal properties and degradation behavior of poly(3-hydroxybutyrate)-based biocomposites. <i>Polymer Degradation and Stability</i> , <b>2012</b> , 97, 1979-1987	4.7	89
105	Catalytic degradation of polymers: Part II Degradation of polyethylene. <i>Polymer Degradation and Stability</i> , <b>1989</b> , 26, 209-220	4.7	87
104	Synthesis and X-ray Structure of $\text{CoCl}_2(\text{PiPrPh}_2)_2$ . A New Highly Active and Stereospecific Catalyst for 1,2 Polymerization of Conjugated Dienes When Used in Association with MAO. <i>Macromolecules</i> , <b>2005</b> , 38, 1064-1070	5.5	85
103	Ni(II) Diimine-Catalyzed Olefins Polymerization: Thermoplastic Elastomers of Block Copolymers. <i>Macromolecules</i> , <b>2015</b> , 48, 1304-1312	5.5	73
102	Catalytic degradation of polymers: Part III Degradation of polystyrene. <i>Polymer Degradation and Stability</i> , <b>1990</b> , 29, 191-200	4.7	73
101	Wool keratin-polypropylene composites: Properties and thermal degradation. <i>Polymer Degradation and Stability</i> , <b>2013</b> , 98, 980-987	4.7	63
100	Molecular weight and pyrolysis products distribution of polymers. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>1992</b> , 24, 61-74	6	61
99	Synthesis and crystal structure and optical properties of fluorenic-core oligomers. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 924-933		53
98	Synthesis and characterization of new electron acceptor perylene diimide molecules for photovoltaic applications. <i>Dyes and Pigments</i> , <b>2013</b> , 99, 329-338	4.6	51
97	Investigation on the thermal degradation of poly-n-alkyl acrylates and poly-n-alkyl methacrylates (C1-C12). <i>Polymer Degradation and Stability</i> , <b>2005</b> , 89, 233-239	4.7	47
96	Properties and performance of polypyrrole (PPy)-coated silk fibers. <i>Fibers and Polymers</i> , <b>2008</b> , 9, 698-707		46
95	Synthesis of donor-acceptor poly(peryene diimide-altoligothiophene) copolymers as n-type materials for polymeric solar cells. <i>Polymer</i> , <b>2010</b> , 51, 2264-2270	3.9	43
94	Nanophase separation in polystyrene-polyfluorene block copolymers thin films prepared through the breath figure procedure. <i>Langmuir</i> , <b>2009</b> , 25, 5333-8	4	41

93	Polyolefin thermoplastic elastomers from 1-octene chain-walking polymerization. <i>Polymer</i> , <b>2016</b> , 100, 37-44	3.9	41
92	A controlled approach to iron oxide nanoparticles functionalization for magnetic polymer brushes. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 360, 540-7	9.3	39
91	Chain-Walking Polymerization of $\alpha$ -Olefins by $\beta$ -Diimine Ni(II) Complexes: Effect of Reducing the Steric Hindrance of Ortho- and Para-Aryl Substituents on the Catalytic Behavior, Monomer Enchainment, and Polymer Properties. <i>Macromolecules</i> , <b>2018</b> , 51, 801-814	5.5	37
90	Propene/ $\alpha$ -Norbornene Copolymers: Synthesis and Analysis of Polymer Structure by $^{13}\text{C}$ NMR Spectroscopy and ab Initio Chemical Shift Computations. <i>Macromolecules</i> , <b>2003</b> , 36, 882-890	5.5	36
89	Synthesis, Characterization, and Crystalline Structure of Syndiotactic 1,2-Polypentadiene: The Trans Polymer. <i>Macromolecules</i> , <b>2005</b> , 38, 8345-8352	5.5	35
88	Thermal characterization and annealing effects of polythiophene/fullerene photoactive layers for solar cells. <i>Thin Solid Films</i> , <b>2006</b> , 511-512, 489-493	2.2	35
87	Solid-State Optical and Structural Modifications Induced by Temperature in a Chiral Poly-3-alkylthiophene. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 4819-4826	9.6	35
86	Catalytic degradation of polyolefins. <i>Makromolekulare Chemie Macromolecular Symposia</i> , <b>1992</b> , 57, 191-209		34
85	Miscible blends of polylactide and poly(methyl methacrylate): Morphology, structure, and thermal behavior. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2014</b> , 52, 1168-1177	2.6	33
84	Fullerene C60 as stabiliser for acrylic polymers. <i>Polymer Degradation and Stability</i> , <b>2005</b> , 90, 28-33	4.7	33
83	Synthesis and Spontaneous Polymerization of Oligo(ethylene glycol)-Conjugated Benzofulvene Macromonomers. A Polymer Brush Forming a Physical Hydrogel. <i>Macromolecules</i> , <b>2009</b> , 42, 2368-2378	5.5	32
82	Synthesis and characterization of new azomethine derivatives exhibiting liquid crystalline properties. <i>Liquid Crystals</i> , <b>2009</b> , 36, 21-32	2.3	31
81	Unsoluble ordered polymeric pattern by breath figure approach. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 1483		29
80	In situ polymerization of ethylene using metallocene catalysts: Effect of clay pretreatment on the properties of highly filled polyethylene nanocomposites. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 5390-5403	2.5	28
79	Investigation on the thermal degradation of acrylic polymers with fluorinated side-chains. <i>Polymer Degradation and Stability</i> , <b>2006</b> , 91, 512-516	4.7	28
78	Synthesis and Characterization of Isotactic 1,2-Poly(E-3-methyl-1,3-pentadiene). Some Remarks about the Influence of Monomer Structure on Polymerization Stereoselectivity. <i>Macromolecules</i> , <b>2009</b> , 42, 3048-3056	5.5	27
77	Crystalline and supermolecular structure evolution of poly(ethylene terephthalate) during isothermal crystallization and annealing treatment by means of wide and small angle X-ray investigations. <i>European Polymer Journal</i> , <b>2010</b> , 46, 270-276	5.2	27
76	Ethylene/ $\alpha$ -Norbornene Copolymerization by Carbon Nanotube-Supported Metallocene Catalysis: Generation of High-Performance Polyolefinic Nanocomposites. <i>Macromolecular Rapid Communications</i> , <b>2007</b> , 28, 822-827	4.8	27

75	Butadiene-isoprene copolymerization with V(acac) <sub>3</sub> -MAO. Crystalline and amorphous trans-1,4 copolymers. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 4635-4646	2.5	26
74	Synthesis and Characterization of Syndiotactic 1,2-Poly(3-methyl-1,3-pentadiene). <i>Macromolecules</i> , <b>2007</b> , 40, 7238-7243	5.5	26
73	Polystyrene thermodegradation. III. Effect of acidic catalysts on radical formation and volatile product distribution. <i>Applied Catalysis A: General</i> , <b>1995</b> , 127, 139-155	5.1	26
72	Investigation of the thermal degradation of fully aromatic regular polyesters: Poly(oxy-1,4-phenyleneoxy-fumaroyl-bis-4-oxybenzoate). <i>Polymer Degradation and Stability</i> , <b>2006</b> , 91, 3214-3220	4.7	24
71	1,2 Syndiotactic polybutadiene of controlled crystallinity by butadiene-isoprene copolymerization with CrCl <sub>2</sub> (dmpc) <sub>2</sub> -MAO. <i>Polymer Bulletin</i> , <b>2002</b> , 48, 25-31	2.4	22
70	Hydroxyl-Functionalized Norbornene Based Co- and Terpolymers by Scandium Half-Sandwich Catalyst. <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 897-904	2.6	21
69	Improving the efficiency of P3HT:perylene diimide solar cells via bay-substitution with fused aromatic rings. <i>RSC Advances</i> , <b>2013</b> , 3, 9185	3.7	20
68	Vinyl-Type Addition Polymerization of Norbornene and Synthesis of Norbornene Macromonomers in the Presence of Ethylene Catalyzed by Cobalt(II)Phosphine Complexes. <i>Macromolecules</i> , <b>2009</b> , 42, 9231-9237	5.5	20
67	Structure-property relationships in densely grafted $\pi$ -stacked polymers. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 2446-2461	2.5	20
66	Polyolefin thermoplastic elastomers from 1-octene copolymerization with 1-decene and cyclopentene. <i>European Polymer Journal</i> , <b>2017</b> , 93, 200-211	5.2	19
65	Designed organo-layered silicates as nanoreactors for 1,3-butadiene stereospecific polymerization toward rubber nanocomposites synthesis. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 4473-4483	2.5	19
64	Synthesis and structural characterization of syndiotactic trans-1,2 and cis-1,2 polyhexadienes. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 5339-5353	2.5	19
63	Synthesis, Characterization and Molecular Conformation of Syndiotactic 1,2 Polypentadiene: The Cis Polymer. <i>Macromolecules</i> , <b>2005</b> , 38, 8353-8361	5.5	19
62	Thermal degradation of chlorinated polystyrenes. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>1994</b> , 28, 205-217	6	19
61	Polyurethane-Based Composites: Effects of Antibacterial Fillers on the Physical-Mechanical Behavior of Thermoplastic Polyurethanes. <i>Polymers</i> , <b>2020</b> , 12,	4.5	18
60	Long-lived layered silicates-immobilized 2,6-bis(imino)pyridyl iron (II) catalysts for hybrid polyethylene nanocomposites by in situ polymerization: Effect of aryl ligand and silicate modification. <i>Journal of Polymer Science Part A</i> , <b>2009</b> , 47, 548-564	2.5	18
59	Structural investigation on bulk poly(3-hexylthiophene): Combined SAXS, WAXD, and AFM studies. <i>European Polymer Journal</i> , <b>2009</b> , 45, 2572-2579	5.2	18
58	Vanadium(III)-catalyzed copolymerization of ethylene with norbornene: Microstructure at tetrad level and reactivity ratios. <i>Journal of Molecular Catalysis A</i> , <b>2016</b> , 424, 220-231		17

57	Synthesis and characterization of perylene-based donor-acceptor copolymers containing triple bonds. <i>Synthetic Metals</i> , <b>2010</b> , 160, 996-1001	3.6	17
56	Lightweight Poly( $\epsilon$ -Caprolactone) Composites with Surface Modified Hollow Glass Microspheres for Use in Rotational Molding: Thermal, Rheological and Mechanical Properties. <i>Polymers</i> , <b>2019</b> , 11,	4.5	16
55	Poly(styrene)-graft-/rhodamine 6G-fluoromica hybrids: synthesis, characterization and photophysical properties. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 1450	7.1	16
54	Thermal degradation of alkyne-containing polystyrenes. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2003</b> , 68-69, 61-81	6	16
53	Thermal degradation of para-substituted polystyrenes. <i>Polymer Degradation and Stability</i> , <b>2001</b> , 71, 213-221	4.7	16
52	Thermal behavior and degradation mechanism of brominated polystyrenes. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>1995</b> , 33, 213-230	6	16
51	Copolymerization of ethylene with olefins and cyclic olefins catalyzed by a Ti(IV) diisopropoxy complex bearing a tridentate [O,N,O]-type bis(phenolato) ligand. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 3412	4.9	15
50	Crystallization and melting behavior of 1,2-syndiotactic polybutadiene. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 92, 1680-1687	2.9	15
49	Electrochemical, Magnetic, and Electrical Properties of $\mu$ -Capped Sexithiophene Films. 2. Conduction in Sexithiophenes with $\mu$ -Aryl-Extended Conjugation. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 3151-3161	9.6	14
48	Addition Oligomerization of Dicyclopentadiene: Reactivity of Endo and Exo Isomers and Postmodification. <i>Macromolecular Chemistry and Physics</i> , <b>2017</b> , 218, 1600602	2.6	13
47	(Micro)structure, thermal behavior and mechanical properties of ethylene-propylene-octadecene terpolymers from chain-walking polymerization of 1-octadecene. <i>Polymer</i> , <b>2019</b> , 166, 27-37	3.9	13
46	Design of perylene diimides for organic solar cell: Effect of molecular steric hindrance and extended conjugation. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 163, 152-160	4.4	13
45	Hierarchically structured, blue-emitting polymer hybrids through surface-initiated nitroxide-mediated polymerization and water templated assembly. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 6585	7.1	13
44	Ethylene- $\alpha$ -methyl-1-pentene copolymers of complex chain architecture using diimine Ni(II) catalysts: synthesis, <sup>13</sup> C NMR assignment and understanding the chain-walking mechanism. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 2065	4.9	12
43	Hardware components wastes pyrolysis: energy recovery and liquid fraction valorisation. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2003</b> , 70, 263-276	6	12
42	Homo- and Co-Polymerization of Ethylene with Cyclic Olefins Catalyzed by Phosphine Adducts of (Imido)vanadium(IV) Complexes. <i>Organometallics</i> , <b>2018</b> , 37, 3181-3195	3.8	12
41	A versatile click-grafting approach to surface modification of silk fibroin films. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 7004-7010	4.3	11
40	Living copolymerization of ethylene with norbornene by fluorinated enolato-imine titanium catalyst. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 3867-3874	2.5	10

39	Ethylene-co-Norbornene Copolymers Grafted Carbon Nanotube Composites by In Situ Polymerization. <i>Macromolecular Chemistry and Physics</i> , <b>2012</b> , 213, 627-634	2.6	9
38	Synthesis of Polybutadiene Nanocomposites: In situ Polymerization of 1,3-Butadiene Catalyzed by Phyllosilicate Interlayer Spacing-Confined Cobalt(II) Phosphine Complexes. <i>Macromolecular Chemistry and Physics</i> , <b>2009</b> , 210, 279-286	2.6	9
37	Thermal behavior and pyrolysis products of modified organo-layered silicates as intermediates for in situ polymerization. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2009</b> , 86, 74-81	6	9
36	Hydrous pyrolysis of silica-supported polystyrene. <i>Journal of Applied Polymer Science</i> , <b>1998</b> , 70, 2291-2298	2.9	9
35	Semibatch Terpolymerization of Ethylene, Propylene, and 5-Ethylidene-2-norbornene: Heterogeneous High-Ethylene EPDM Thermoplastic Elastomers. <i>Macromolecules</i> , <b>2020</b> , 53, 5881-5894	5.5	9
34	Copolymerization of ethylene with propylene and higher $\alpha$ -olefins catalyzed by (imido)vanadium(IV) dichloride complexes. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 6200-6216	4.9	9
33	Influence of hydrogenated oligo(cyclopentadiene) on the structure and the thermal degradation of polypropylene-based nanocomposites. <i>Polymer Degradation and Stability</i> , <b>2012</b> , 97, 81-87	4.7	8
32	Alternating olefin-carbon monoxide copolymers and their derivatives Preparation and characterization by pyrolysis-gas chromatography/mass spectrometry (Py-GC/MS). <i>Journal of Analytical and Applied Pyrolysis</i> , <b>1997</b> , 40-41, 331-345	6	8
31	Flexible Polyurethane Foams from Epoxidized Vegetable Oils and a Bio-Based Diisocyanate. <i>Polymers</i> , <b>2021</b> , 13,	4.5	8
30	Towards a more sustainable circular bioeconomy. Innovative approaches to rice residue valorization: The RiceRes case study. <i>Bioresource Technology Reports</i> , <b>2020</b> , 11, 100427	4.1	7
29	Structure and thermal properties of ethylene/4-methyl-1-pentene copolymers: Effect of comonomer and monomer sequence distribution. <i>European Polymer Journal</i> , <b>2015</b> , 73, 423-432	5.2	7
28	Concerted Electron Transfer in Iminopyridine Chromium Complexes: Ligand Effects on the Polymerization of Various (Di)olefins. <i>Organometallics</i> , <b>2018</b> , 37, 4827-4840	3.8	7
27	Structural characterization and thermal behaviour of wool keratin hydrolyzates-polypropylene composites. <i>Journal of Polymer Research</i> , <b>2013</b> , 20, 1	2.7	6
26	Investigation of thermal degradation of poly-(4-n-alkylstyrenes) with long alkyl chain (C <sub>6</sub> -10) by pyrolysis-gas chromatography/mass spectrometry. <i>Polymer Degradation and Stability</i> , <b>2000</b> , 69, 169-174	4.7	6
25	Homo- and Copolymerization of Ethylene with Norbornene Catalyzed by Vanadium(III) Phosphine Complexes. <i>Molecules</i> , <b>2019</b> , 24,	4.8	5
24	Enhanced elasticity in parylene thin films by copolymerization approach. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 7547-7555	4.3	5
23	Influence of the Composition on Crystal Phase and Thermal Behavior of trans-1,4-Butadiene/Isoprene Copolymers. <i>Macromolecular Chemistry and Physics</i> , <b>2007</b> , 208, 2551-2559	2.6	5
22	Thermal behaviour and degradation of a liquid crystalline alkylene-aromatic polyester: Poly(decamethylene-fumaroyl-bis-4-oxybenzoate). <i>Polymer Degradation and Stability</i> , <b>2007</b> , 92, 1669-1676	4.7	5

21	Polyurethane-Based Coatings with Promising Antibacterial Properties. <i>Materials</i> , <b>2020</b> , 13,	3.5	5
20	Unbridged Zirconium and Titanium Metallocenes with Seven- or Eight-Saturated Fused-Ring Ligands: a Route for the Synthesis of Stereoblock Polypropene. <i>Macromolecules</i> , <b>2005</b> , 38, 7231-7240	5.5	4
19	Seven-and eight-membered saturated fused rings zirconium and titanium metallocenes: A route for the synthesis of elastomeric polypropylene. <i>Kinetics and Catalysis</i> , <b>2006</b> , 47, 268-273	1.5	4
18	Effect of Titanium on Fluxional Behavior of Unbridged Metallocene Catalysts. <i>Macromolecular Rapid Communications</i> , <b>2004</b> , 25, 1845-1850	4.8	4
17	Thermal characterization of butadiene-isoprene copolymers with a 1,2/3,4 structure. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 88, 2737-2743	2.9	4
16	Changing the Electronic Polarizability of Monolayer MoS <sub>2</sub> by Perylene-Based Seeding Promoters. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000791	4.6	4
15	New diketopyrrolopyrrole based DAD E-conjugated molecules: Synthesis, optical, electrochemical, morphological and photovoltaic properties. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 147, 365-370	4.4	3
14	Preparation of Ethene/Carbon Monoxide Copolymers Using Copper-Based Catalysts and Their Characterization by Pyrolysis-Gas Chromatography. <i>Macromolecular Rapid Communications</i> , <b>2001</b> , 22, 598-600	4.8	3
13	A Comb-Like Alternating Copolymer of Thiophene and Hydroxyalkylthiophene: Synthesis and Characterization. <i>Macromolecular Chemistry and Physics</i> , <b>2001</b> , 202, 3477-3483	2.6	3
12	New fluorene based tetramers for electroluminescence applications. <i>Synthetic Metals</i> , <b>2001</b> , 121, 1647-1648	5.48	3
11	Thermal degradation of alternating styrene-carbon monoxide copolymers. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>1999</b> , 49, 31-42	6	3
10	Terpolymerization of Substituted Cycloolefin with Ethylene and Norbornene by Transition Metal Catalyst. <i>Polymers</i> , <b>2016</b> , 8,	4.5	3
9	Effect of Individualized Cellulose Fibrils on Properties of Poly(Methyl Methacrylate) Composites. <i>Journal of Macromolecular Science - Physics</i> , <b>2016</b> , 55, 867-883	1.4	2
8	Influence of lignin on morphology, structure and thermal behavior of polylactic acid-based biocomposites <b>2016</b> ,		2
7	Thermal behavior of syndiotactic E-1,2-poly(3-methyl-1,3-pentadiene). <i>European Polymer Journal</i> , <b>2009</b> , 45, 923-931	5.2	2
6	Crystallization and melting behavior of trans-1,2-syndiotactic polypentadiene. <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 97, 1970-1976	2.9	2
5	New chemical recycling methodologies: Hydrous pyrolysis to recover monomers from polyolefins. <i>Macromolecular Symposia</i> , <b>1998</b> , 135, 175-182	0.8	2
4	Lightweight polyethylene-hollow glass microspheres composites for rotational molding technology. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 49766	2.9	1

3	Reinforcing poly(E-caprolactone) with hollow glass microspheres and hemp fibers [Morphological, rheological and mechanical properties <b>2018</b> ,		1
2	Light weight LDPE composites with surface modified hollow glass microspheres <b>2018</b> ,		1
1	Characterization of co- and terpolymers of carbon monoxide and olefins by pyrolysis-gas chromatography. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2002</b> , 64, 279-303	6	0