

Johannes G P Goossens

List of Publications by Year in descending order

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81
papers

3,871
citations

186265

28
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all docs

81
docs citations

81
times ranked

4335
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Healing Materials Based on Disulfide Links. <i>Macromolecules</i> , 2011, 44, 2536-2541.	4.8	789
2	Self-healing systems based on disulfide-thiol exchange reactions. <i>Polymer Chemistry</i> , 2013, 4, 4955.	3.9	383
3	Effect of in situ prepared silica nano-particles on non-isothermal crystallization of polypropylene. <i>Polymer</i> , 2005, 46, 8805-8818.	3.8	203
4	Toughening of poly(lactic acid) by ethylene-co-vinyl acetate copolymer with different vinyl acetate contents. <i>European Polymer Journal</i> , 2012, 48, 146-154.	5.4	192
5	Strong decrease in viscosity of nanoparticle-filled polymer melts through selective adsorption. <i>Soft Matter</i> , 2008, 4, 1848.	2.7	158
6	Cross-Linking of Poly(butylene terephthalate) by Reactive Extrusion Using Zn(II) Epoxy-Vitrimer Chemistry. <i>Macromolecules</i> , 2017, 50, 6117-6127.	4.8	143
7	Assessment of plastic packaging waste: Material origin, methods, properties. <i>Resources, Conservation and Recycling</i> , 2014, 85, 88-97.	10.8	129
8	Polymer crystallization studies under processing-relevant conditions at the SAXS/WAXS DUBBLE beamline at the ESRF. <i>Journal of Applied Crystallography</i> , 2013, 46, 1681-1689.	4.5	111
9	Poly(butylene terephthalate)/Glycerol-based Vitrimers via Solid-State Polymerization. <i>Macromolecules</i> , 2017, 50, 6742-6751.	4.8	104
10	The rubber particle size to control the properties-processing balance of thermoplastic/cross-linked elastomer blends. <i>Soft Matter</i> , 2010, 6, 1758.	2.7	88
11	“Hot-Water-Proof”, Semiconducting, Platinum-Based Chain Structures: Processing, Products, and Properties. <i>Advanced Materials</i> , 2003, 15, 125-129.	21.0	84
12	Mechanical Properties of Sorbitol-Clarified Isotactic Polypropylene: Influence of Additive Concentration on Polymer Structure and Yield Behavior. <i>Macromolecules</i> , 2005, 38, 10461-10465.	4.8	81
13	“Controlled” Synthesis and Characterization of Model Methyl Methacrylate/tert-Butyl Methacrylate Triblock Copolymers via ATRP. <i>Macromolecules</i> , 2003, 36, 3051-3060.	4.8	78
14	From Polyethylene to Polyester: Influence of Ester Groups on the Physical Properties. <i>Macromolecules</i> , 2013, 46, 7668-7677.	4.8	72
15	Synthetic aspects and characterization of polypropylene-silica nanocomposites prepared via solid-state modification and sol-gel reactions. <i>Polymer</i> , 2005, 46, 6666-6681.	3.8	66
16	High-Resolution Chemical Identification of Polymer Blend Thin Films Using Tip-Enhanced Raman Mapping. <i>Macromolecules</i> , 2011, 44, 2852-2858.	4.8	56
17	Tuning PBT vitrimer properties by controlling the dynamics of the adaptable network. <i>Polymer Chemistry</i> , 2019, 10, 136-144.	3.9	55
18	Block Copolymers of “PE-Like” Poly(pentadecalactone) and Poly(l-lactide): Synthesis, Properties, and Compatibilization of Polyethylene/Poly(l-lactide) Blends. <i>Macromolecules</i> , 2015, 48, 6909-6921.	4.8	45

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19	Evidence of pre-crystalline-order in super-cooled polymer melts revealed from simultaneous dielectric spectroscopy and SAXS. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 2773-2779.	3.1	44
20	Morphology of Ethylene~Propylene Copolymer Based Ionomers as Studied by Solid State NMR and Small Angle X-ray Scattering in Relation to Some Mechanical Properties. <i>Macromolecules</i> , 2003, 36, 1147-1156.	4.8	41
21	Thermoreversible Cross-Linking of Maleated Ethylene/Propylene Copolymers Using Hydrogen-Bonding and Ionic Interactions. <i>Macromolecules</i> , 2006, 39, 3441-3449.	4.8	39
22	Solid-state modification of isotactic polypropylene (iPP) via grafting of styrene. I. Polymerization experiments. <i>Journal of Applied Polymer Science</i> , 2003, 89, 3279-3291.	2.6	37
23	Synthesis, Structure, and Properties of Ionic Thermoplastic Elastomers Based on Maleated Ethylene/Propylene Copolymers. <i>Macromolecules</i> , 2008, 41, 5493-5501.	4.8	37
24	Synthesis, Characterization and Properties of (Vinyl Triethoxy Silane-grafted PP)/Silica Nanocomposites. <i>Macromolecular Symposia</i> , 2006, 233, 225-234.	0.7	36
25	Influence of drying procedure on glass transition temperature of PMMA based nanocomposites. <i>Nanocomposites</i> , 2015, 1, 36-45.	4.2	36
26	In Situ Network Formation in PBT Vitrimers via Processing~Induced Deprotection Chemistry. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800356.	3.9	36
27	Poly(butylene terephthalate) Copolymers Obtained via Solid-State Polymerization and Melt Polymerization. A Study on the Microstructure via ¹³ C NMR Sequence Distribution. <i>Macromolecules</i> , 2005, 38, 10658-10666.	4.8	30
28	Reaction Kinetics of the Incorporation of 2,2-Bis[4-(2-hydroxyethoxy)phenyl]propane in Poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.8	30
29	Thermoplastic vulcanizates obtained by reaction-induced phase separation: Interplay between phase separation dynamics, final morphology and mechanical properties. <i>Polymer</i> , 2008, 49, 2288-2297.	3.8	29
30	Tailoring the morphology and properties of poly(lactic acid)/poly(ethylene~vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	3.1	27
31	Morphology of Neutralized Low Molecular Weight Maleated Ethylene~Propylene Copolymers (MAng-EPM) As Investigated by Small-Angle X-ray Scattering. <i>Macromolecules</i> , 2002, 35, 208-216.	4.8	25
32	Preparation and characterization of poly(butylene terephthalate)/poly(ethylene terephthalate) copolymers via solid-state and melt polymerization. <i>Journal of Polymer Science Part A</i> , 2007, 45, 882-899.	2.3	25
33	Solid-State Modification of Poly(butylene terephthalate) with a Bio-Based Fatty Acid Dimer Diol Furnishing Copolyesters with Unique Morphologies. <i>Macromolecules</i> , 2013, 46, 3975-3984.	4.8	24
34	Experimental and computational study on structure development of PMMA/SAN blends. <i>Chemical Engineering Science</i> , 2007, 62, 1825-1837.	3.8	23
35	Thermoreversible cross-linking of maleated ethylene/propylene copolymers~with diamines and amino-alcohols. <i>Polymer</i> , 2008, 49, 1239-1248.	3.8	23
36	Sub-micrometer thermoplastic vulcanizates obtained by reaction-induced phase separation of miscible mixtures of poly(ethylene) and alkyl methacrylates. <i>European Polymer Journal</i> , 2009, 45, 503-514.	5.4	23

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37	The Control of Silica Nanoparticles on the Phase Separation of Poly(methyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (meth 2013, 214, 2705-2715.	2.2	23
38	Morphology of Zinc-Neutralized Maleated Ethylene~Propylene Copolymer Ionomers:~ Structure of Ionic Aggregates As Studied by X-ray Absorption Spectroscopy. <i>Macromolecules</i> , 2004, 37, 8585-8591.	4.8	21
39	The microstructure of poly(butylene terephthalate) copolymers via ¹³ C NMR sequence distribution analysis: Solid-state copolymerization versus melt copolymerization. <i>Analytica Chimica Acta</i> , 2006, 557, 19-30.	5.4	21
40	Processing of Thermoplastic Polymers Using Reactive Solvents. <i>High Performance Polymers</i> , 1996, 8, 133-167.	1.8	20
41	Solid-state drawing of post-consumer isotactic poly(propylene): Effect of melt filtration and carbon black on structural and mechanical properties. <i>Waste Management</i> , 2016, 54, 53-61.	7.4	20
42	Photoinitiated Bulk Polymerization of Liquid Crystalline Thiolene Monomers. <i>Macromolecules</i> , 2002, 35, 8962-8968.	4.8	19
43	The incorporation of rigid diol monomers into poly(butylene terephthalate) via solid~state copolymerization and melt copolymerization. <i>Journal of Polymer Science Part A</i> , 2008, 46, 1203-1217.	2.3	19
44	Thermoreversible covalent crosslinking of maleated ethylene/propylene copolymers with diols. <i>Journal of Polymer Science Part A</i> , 2008, 46, 1810-1825.	2.3	19
45	Deformation behavior of triblock copolymers based on polystyrene: an FT-IR spectroscopy study. <i>Macromolecular Symposia</i> , 2004, 205, 85-94.	0.7	18
46	On clarification of haze in polypropylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 865-874.	2.1	17
47	Physical aging in polycarbonate nanocomposites containing grafted nanosilica particles: A comparison between enthalpy and yield stress evolution. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 2069-2081.	2.1	17
48	Application of FTIR Microscopy in Combinatorial Experimentation on Polymer Blends. <i>Macromolecular Symposia</i> , 2008, 265, 281-289.	0.7	16
49	Morphology and rheological properties of silica-filled poly(carbonate)/poly(methyl methacrylate) blends. <i>Polymer Engineering and Science</i> , 2015, 55, 1951-1959.	3.1	16
50	Depolymerization behavior of thermoplastic poly(urethane) (TPU) and its dependence on initial molecular weight. <i>Analytica Chimica Acta</i> , 2007, 604, 69-75.	5.4	14
51	Crystallization kinetics and crystalline morphology of poly(~caprolactone) in blends with grafted rubber particles. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1438-1448.	2.1	14
52	Solid~state drawing of ~nucleated polypropylene: Effect of additives on drawability and mechanical properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 1071-1082.	2.1	14
53	The influence of grafting on flow-induced crystallization and rheological properties of poly(~caprolactone)/cellulose nanocrystal nanocomposites. <i>Nanocomposites</i> , 2018, 4, 87-101.	4.2	13
54	The Influence of Graft Length and Density on Dispersion, Crystallisation and Rheology of Poly(~caprolactone)/Silica Nanocomposites. <i>Molecules</i> , 2019, 24, 2106.	3.8	13

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55	Solid-state modification of isotactic polypropylene (iPP) via grafting of styrene. II. Morphology and melt processing. <i>Journal of Applied Polymer Science</i> , 2005, 97, 575-583.	2.6	12
56	The influence of hydrogen bonding on the preparation and mechanical properties of PS-diblock copolymer blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 2137-2160.	2.1	11
57	Reactive compatibilization of ethylene-co-vinyl acetate/starch blends. <i>Macromolecular Research</i> , 2012, 20, 1054-1062.	2.4	11
58	The effect of polymer molar mass and silica nanoparticles on the rheological and mechanical properties of poly(ϵ -caprolactone) nanocomposites. <i>Nanocomposites</i> , 2018, 4, 112-126.	4.2	11
59	Characterization of the morphology of co-extruded, thermoplastic/rubber multi-layer tapes. <i>Analytica Chimica Acta</i> , 2009, 654, 11-19.	5.4	10
60	Compatibility and epitaxial crystallization between Poly(ethylene) and Poly(ethylene)-like polyesters. <i>Polymer</i> , 2016, 88, 63-70.	3.8	10
61	Bimodal Ultrahigh Molecular Weight Polyethylenes Produced from Supported Catalysts: The Challenge of Using a Combined Catalyst System. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1600490.	2.2	10
62	Phase separation in poly(butylene terephthalate)-based materials prepared by solid-state modification. <i>Polymer</i> , 2014, 55, 3801-3810.	3.8	9
63	Fast cooling of (non)-nucleated virgin and recycled poly(propylenes): Effect of processing conditions on structural and mechanical properties. <i>Thermochimica Acta</i> , 2015, 603, 94-102.	2.7	9
64	Structure development of PMMA/SAN blends in shear flow. <i>Chemical Engineering Science</i> , 2011, 66, 4960-4971.	3.8	8
65	Processing of intractable polymers using reactive solvents. 6. A new reactive solvent concept based on reversible depolymerisation. <i>Polymer</i> , 2002, 43, 5699-5708.	3.8	7
66	The Influence of the Cooling Rate on the Nucleation Efficiency of Isotactic Poly(propylene) with Bis(3,4-dimethylbenzylidene)sorbitol. <i>Macromolecular Symposia</i> , 2013, 330, 150-165.	0.7	7
67	An FTIR Study on the Solid-State Copolymerization of bis(2-hydroxyethyl)terephthalate and Poly(butylene terephthalate) and the Resulting Copolymers. <i>Macromolecular Symposia</i> , 2008, 265, 290-296.	0.7	6
68	Thermoplastic Vulcanizates Based on Highly Compatible Blends of Isotactic Poly(propylene) and Copolymers of Atactic Poly(propylene) and 5-ethylidene-2-norbornene. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 334-344.	2.2	6
69	Deformation mechanisms of sub-micrometer thermoplastic vulcanizates obtained by reaction-induced phase separation of miscible poly(ϵ -caprolactone)/dimethacrylate systems. <i>Soft Matter</i> , 2017, 13, 6905-6912.	2.7	6
70	Polyamide-6,6-based blocky copolyamides obtained by solid-state modification. <i>Journal of Polymer Science Part A</i> , 2013, 51, 5118-5129.	2.3	5
71	Compound formation and solvent (dis)ordering in syndiotactic polystyrene/benzylmethacrylate systems. <i>Macromolecular Symposia</i> , 1999, 138, 99-104.	0.7	4
72	Submicrometer Thermoplastic Vulcanizates Obtained by Reaction-Induced Phase Separation of Miscible Poly(ϵ -Caprolactone)/Dimethacrylate Systems. <i>Rubber Chemistry and Technology</i> , 2010, 83, 160-180.	1.2	3

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73	Influence of the Solidification Process on the Mechanical Properties of Solid-State Drawn PCL/Sepiolite Nanocomposite Tapes. <i>Fibers</i> , 2020, 8, 70.	4.0	3
74	High Resolution Tip Enhanced Raman Mapping on Polymer Thin Films. <i>Macromolecular Symposia</i> , 2011, 305, 73-80.	0.7	2
75	Co-extruded Multilayer Polymer Films for Photonic Applications. , 2015, , 145-166.		2
76	Infrared Monitoring of the Modification of Styrene Acrylonitrile Copolymers with Oxazoline and Its Interfacial Reaction with Acid-Containing Polymers. <i>Macromolecular Symposia</i> , 2005, 230, 59-66.	0.7	1
77	Rheological properties of bimodal polyethylenes produced with silica nanoparticle supported catalysts. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47577.	2.6	1
78	Anomalous Terminal Shear Viscosity Behavior of Polycarbonate Nanocomposites Containing Grafted Nanosilica Particles. <i>Nanomaterials</i> , 2021, 11, 1839.	4.1	1
79	Synchrotron Radiation and Polymer Science IV. <i>Synchrotron Radiation News</i> , 2010, 23, 24-24.	0.8	0
80	Morphology control of PS-b-PB-b-PMMA/PMMA blends by silica nanoparticles. <i>Polymer Bulletin</i> , 2015, 72, 1025-1037.	3.3	0
81	Nanostructuring of In Situ Formed ABC Triblock Copolymers for Rubber Toughening of Thermoplastics. , 2005, , 331-358.		0