

Gerrit A Luinstra

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9384986/publications.pdf>

Version: 2024-02-01

40
papers

1,215
citations

516710

16
h-index

361022

35
g-index

43
all docs

43
docs citations

43
times ranked

1351
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(Propylene Carbonate), Old Copolymers of Propylene Oxide and Carbon Dioxide with New Interests: Catalysis and Material Properties. <i>Polymer Reviews</i> , 2008, 48, 192-219.	10.9	363
2	Toward Self-Healing Hydrogels Using One-Pot Thiol-Ene Click and Borax-Diol Chemistry. <i>ACS Macro Letters</i> , 2015, 4, 673-678.	4.8	125
3	Material Properties of Poly(Propylene Carbonates). <i>Advances in Polymer Science</i> , 2011, , 29-48.	0.8	115
4	New Zinc Dicarboxylate Catalysts for the CO ₂ /Propylene Oxide Copolymerization Reaction: Activity Enhancement Through Zn(II)-Ethylsulfinate Initiating Groups. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 42-47.	2.2	82
5	Viscoelastic properties of aqueous guar gum derivative solutions under large amplitude oscillatory shear (LAOS). <i>Carbohydrate Polymers</i> , 2016, 153, 312-319.	10.2	47
6	Fully bio-derived CO ₂ polymers for non-isocyanate based polyurethane synthesis. <i>Green Chemistry</i> , 2020, 22, 969-978.	9.0	41
7	Wood plastic composites from poly(propylene carbonate) and poplar wood flour – Mechanical, thermal and morphological properties. <i>European Polymer Journal</i> , 2014, 51, 167-176.	5.4	40
8	Structure-property relationships of carboxymethyl hydroxypropyl guar gum in water and a hyperentanglement parameter. <i>Carbohydrate Polymers</i> , 2015, 119, 159-166.	10.2	33
9	Poly(propylene carbonate), old CO ₂ Copolymer with New Attractiveness. <i>Macromolecular Symposia</i> , 2007, 259, 203-209.	0.7	29
10	Post-polymerization modification of reactive polymers derived from vinylcyclopropane: 1. synthesis and thermo-responsive behaviour. <i>Polymer Chemistry</i> , 2013, 4, 2724.	3.9	27
11	Extensional flow behavior of aqueous guar gum derivative solutions by capillary breakup elongational rheometry (CaBER). <i>Carbohydrate Polymers</i> , 2016, 136, 834-840.	10.2	26
12	Synthesis of poly(ϵ -caprolactone)-grafted guar gum by surface-initiated ring-opening polymerization. <i>Carbohydrate Polymers</i> , 2019, 220, 95-102.	10.2	25
13	Thermoplastic Polyurethane Cross-Linked by Functionalized Silica. Nanostructure Evolution under Mechanical Load. <i>Macromolecules</i> , 2013, 46, 4041-4052.	4.8	23
14	Post-polymerization modification of reactive polymers derived from vinylcyclopropane: a poly(vinylcyclopropane) derivative with physical gelation and UCST behaviour in ethanol-water mixtures. <i>Polymer Chemistry</i> , 2014, 5, 5823-5828.	3.9	20
15	ADMET – Polymerization of Dienes based on Sustainable Chemicals. <i>Macromolecular Symposia</i> , 2010, 293, 15-19.	0.7	18
16	Aqueous food-grade and cosmetic-grade surfactant systems for the continuous countercurrent cloud point extraction. <i>Separation and Purification Technology</i> , 2018, 202, 76-85.	7.9	18
17	Zinc glutarate-mediated copolymerization of CO ₂ and PO – parameter studies using design of experiments. <i>Catalysis Science and Technology</i> , 2017, 7, 2897-2905.	4.1	17
18	3D printing as chemical reaction engineering booster. <i>Advances in Chemical Engineering</i> , 2020, 56, 97-137.	0.9	15

#	ARTICLE	IF	CITATIONS
19	Sequential Post-modifications of Polybutadiene for Industrial Applications. <i>Advances in Polymer Science</i> , 2015, , 163-201.	0.8	14
20	Postpolymerization modification of reactive polymers derived from vinylcyclopropane. III. Polymer sequential functionalization using a combination of amines with alkoxyamines, hydrazides, isocyanates, or acyl halides. <i>Journal of Polymer Science Part A</i> , 2014, 52, 2841-2849.	2.3	13
21	DMC-Mediated Copolymerization of CO ₂ and POâ€”Mechanistic Aspects Derived from Feed and Polymer Composition. <i>Catalysts</i> , 2020, 10, 1066.	3.5	13
22	Additive manufacturing of <sc>PA12</sc> carbon nanotube composites with a novel laser polymer deposition process. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50395.	2.6	12
23	Catalytic Chain Transfer Copolymerization of Propylene Oxide and CO ₂ using Zinc Glutarate Catalyst. <i>ChemistryOpen</i> , 2019, 8, 828-839.	1.9	11
24	Influence of norbornene dicarboxylic anhydride on the copolymerization of carbon dioxide and propylene oxide. <i>European Polymer Journal</i> , 2015, 73, 297-307.	5.4	10
25	Facile Synthesis of Hydroxylâ€”Terminated Oligoethylenes. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 218-225.	3.6	8
26	Polyurethane elastomers based on amphiphilic poly(caprolactone)â€”poly(butadiene)â€”poly(caprolactone) triblockcopolyols. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1162-1172.	2.3	8
27	Synthesis and antibacterial behavior of bio-composite materials-based on poly(Î¼-caprolactone)/bentonite. <i>European Polymer Journal</i> , 2021, 156, 110602.	5.4	8
28	Optimization of a 3D-printed tubular reactor for free radical polymerization by CFD. <i>Journal of Flow Chemistry</i> , 2021, 11, 539-552.	1.9	7
29	Thermoâ€”Responsive Microcapsules Based on Guar Gum Derivatives. <i>Macromolecular Symposia</i> , 2014, 346, 32-35.	0.7	6
30	Investigations on the Ethylene Polymerization with Bisarylimine Pyridine Iron (BIP) Catalysts. <i>Catalysts</i> , 2021, 11, 407.	3.5	6
31	Enzyme- and Metal-Catalyzed Synthesis of a New Biobased Polyester. <i>Organic Process Research and Development</i> , 2017, 21, 1245-1252.	2.7	5
32	Iron Catalyst in the Preparation of Polyolefin Composites. <i>Advances in Polymer Science</i> , 2013, , 341-362.	0.8	4
33	Synthesis of a linear lowâ€”density polyethylene/MgO@Mg(OH) ₂ nanocomposite using modified <i>in situ</i> polymerization. <i>Polymer International</i> , 2018, 67, 1359-1367.	3.1	4
34	Isotactic polypropylene metal oxide and silica nanocomposites by a twoâ€”step process comprising in situ olefin polymerization and melt compounding. <i>Polymer International</i> , 2019, 68, 946-954.	3.1	4
35	Disentangled UHMWPE@silica powders for potential use in power bed fusion based additive manufacturing. <i>European Polymer Journal</i> , 2022, 163, 110936.	5.4	4
36	Coupling Kinetic Modelling with SAOS and LAOS Rheology of Poly(<i>n</i>-butyl acrylate). <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100620.	3.9	4

#	ARTICLE	IF	CITATIONS
37	Semi-Batch Copolymerization of Propylene Oxide and Carbon Dioxide. Macromolecular Symposia, 2013, 333, 190-196.	0.7	3
38	Toward the Direct Synthesis of HDPE Powders for Powder Bed Fusion Based Additive Manufacturing. Macromolecular Materials and Engineering, 2021, 306, 2100477.	3.6	2
39	HDPE@UHMWPE Powders for Power Bed Fusion based Additive Manufacturing. Macromolecular Materials and Engineering, 0, , 2100964.	3.6	1
40	Combining Functional Prototyping of 3D Printed Reactors with a Modular Reactor Setup for Continuous Emulsion Polymerization. Chemie-Ingenieur-Technik, 0, , .	0.8	0