

Yohann Guillaneuf

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4976336/publications.pdf>

Version: 2024-02-01

94
papers

4,406
citations

126858

33
h-index

110317

64
g-index

102
all docs

102
docs citations

102
times ranked

2934
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitroxide-mediated polymerization. <i>Progress in Polymer Science</i> , 2013, 38, 63-235.	11.8	1,167
2	Radical Ring-Opening Polymerization: Scope, Limitations, and Application to (Bio)Degradable Materials. <i>Chemical Reviews</i> , 2017, 117, 1319-1406.	23.0	254
3	Toward Nitroxide-Mediated Photopolymerization. <i>Macromolecules</i> , 2010, 43, 2204-2212.	2.2	180
4	Nitroxide-Mediated Polymerization: The Pivotal Role of the Value of the Initiating Alkoxyamine and the Importance of the Experimental Conditions. <i>Macromolecules</i> , 2006, 39, 5238-5250.	2.2	159
5	First Effective Nitroxide-Mediated Polymerization of Methyl Methacrylate. <i>Macromolecules</i> , 2007, 40, 3108-3114.	2.2	155
6	Controlled Radical Polymerization in Aqueous Dispersed Media. <i>Australian Journal of Chemistry</i> , 2006, 59, 693.	0.5	123
7	Nitroxide-Mediated Polymerization of Methyl Methacrylate Using an SG1-Based Alkoxyamine: How the Penultimate Effect Could Lead to Uncontrolled and Unliving Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 1278-1288.	1.1	110
8	Degradable and Comb-Like PEG-Based Copolymers by Nitroxide-Mediated Radical Ring-Opening Polymerization. <i>Biomacromolecules</i> , 2013, 14, 3769-3779.	2.6	87
9	Photoredox catalysis using a new iridium complex as an efficient toolbox for radical, cationic and controlled polymerizations under soft blue to green lights. <i>Polymer Chemistry</i> , 2015, 6, 613-624.	1.9	87
10	First peptide/protein PEGylation with functional polymers designed by nitroxide-mediated polymerization. <i>Polymer Chemistry</i> , 2011, 2, 1523.	1.9	68
11	Radical Copolymerization of Vinyl Ethers and Cyclic Ketene Acetals as a Versatile Platform to Design Functional Polyesters. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16515-16520.	7.2	65
12	Using apparent molecular weight from SEC in controlled/living polymerization and kinetics of polymerization. <i>Journal of Polymer Science Part A</i> , 2008, 46, 897-911.	2.5	63
13	Importance of the Position of the Chromophore Group on the Dissociation Process of Light Sensitive Alkoxyamines. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1909-1913.	2.0	57
14	Nitroxide-Mediated Polymerization of Methacrylic Esters: Insights and Solutions to a Longstanding Problem. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1227-1247.	2.0	53
15	Simulation of radical polymerization of methyl methacrylate at room temperature using a tertiary amine/BPO initiating system. <i>Polymer Chemistry</i> , 2015, 6, 5719-5727.	1.9	47
16	Simulation of the Degradation of Cyclic Ketene Acetal and Vinyl-Based Copolymers Synthesized via a Radical Process: Influence of the Reactivity Ratios on the Degradability Properties. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800193.	2.0	47
17	Hydrogen-transfer reaction in nitroxide mediated polymerization of methyl methacrylate: 2,2-diphenyl-3-phenylimino-2,3-dihydroindol-1-yl oxyl nitroxide (DPAIO) vs. TEMPO. <i>Journal of Polymer Science Part A</i> , 2008, 46, 6828-6842.	2.5	46
18	Synthesis of Highly Labile SG1-Based Alkoxyamines under Photochemical Conditions. <i>Journal of Organic Chemistry</i> , 2008, 73, 4728-4731.	1.7	45

#	ARTICLE	IF	CITATIONS
19	Kinetic Modeling of Nitroxide-Mediated Polymerization: Conditions for Living and Controlled Polymerization. <i>Macromolecular Theory and Simulations</i> , 2009, 18, 402-419.	0.6	45
20	Nitroxide-Mediated Radical Ring-Opening Copolymerization: Chain-End Investigation and Block Copolymer Synthesis. <i>Macromolecular Rapid Communications</i> , 2014, 35, 484-491.	2.0	45
21	Novel polymer synthesis methodologies using combinations of thermally- and photochemically-induced nitroxide mediated polymerization. <i>Polymer Chemistry</i> , 2015, 6, 754-763.	1.9	44
22	Toward a full characterization of native starch: Separation and detection by size-exclusion chromatography. <i>Journal of Chromatography A</i> , 2008, 1205, 60-70.	1.8	43
23	A ring to rule them all: a cyclic ketene acetal comonomer controls the nitroxide-mediated polymerization of methacrylates and confers tunable degradability. <i>Chemical Communications</i> , 2015, 51, 12847-12850.	2.2	43
24	One-Step Synthesis of Degradable Vinylic Polymer-Based Latexes via Aqueous Radical Emulsion Polymerization. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	42
25	Photosensitized alkoxyamines as bicomponent radical photoinitiators. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2910-2915.	2.5	41
26	Radical Chain End Chemical Transformation of SG1-Based Polystyrenes. <i>Macromolecules</i> , 2010, 43, 91-100.	2.2	40
27	Kinetic study of H-atom transfer in imidazoline-, imidazolidine-, and pyrrolidine-based alkoxyamines: Consequences for nitroxide-mediated polymerization. <i>Journal of Polymer Science Part A</i> , 2009, 47, 6579-6595.	2.5	39
28	Photodissociation Rate Constants of New Light Sensitive Alkoxyamines. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1383-1388.	2.0	39
29	Scope and limitations of the nitroxide-mediated radical ring-opening polymerization of cyclic ketene acetals. <i>Polymer Chemistry</i> , 2013, 4, 4776.	1.9	38
30	New Experimental Procedure To Determine the Recombination Rate Constants between Nitroxides and Macroradicals. <i>Macromolecules</i> , 2005, 38, 4638-4646.	2.2	37
31	Synthesis of methacrylate derivatives oligomers by dithiobenzoate-CRAFT-mediated polymerization. <i>Journal of Polymer Science Part A</i> , 2008, 46, 2277-2289.	2.5	37
32	Heterogeneous modification of chitosan via nitroxide-mediated polymerization. <i>Polymer Chemistry</i> , 2013, 4, 322-328.	1.9	36
33	Effect of the Penultimate Unit on the C-ON Bond Homolysis in SG1-Based Alkoxyamines. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 220-224.	1.1	35
34	Structural effects on the photodissociation of alkoxyamines. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 2892.	1.5	33
35	Indolinic nitroxides: evaluation of their potential as universal control agents for nitroxide mediated polymerization. <i>Polymer Chemistry</i> , 2013, 4, 3694.	1.9	33
36	Intermolecular radical 1,2-addition of the BlocBuilder MA alkoxyamine onto activated olefins: a versatile tool for the synthesis of complex macromolecular architecture. <i>Polymer Chemistry</i> , 2011, 2, 1624.	1.9	32

#	ARTICLE	IF	CITATIONS
37	Nitroxide mediated polymerization of methacrylates at moderate temperature. <i>Polymer Chemistry</i> , 2014, 5, 335-340.	1.9	31
38	Kinetic study on the living/controlled cationic polymerization of <i>p</i> -methoxystyrene cointiated by tris(pentafluorophenyl)borane. <i>Journal of Polymer Science Part A</i> , 2008, 46, 6928-6939.	2.5	30
39	Understanding the Controlled Polymerization of Methyl Methacrylate with Low Concentrations of 9-(4-Vinylbenzyl)-9 <i>H</i> -carbazole Comonomer by Nitroxide-Mediated Polymerization: The Pivotal Role of Reactivity Ratios. <i>Macromolecules</i> , 2013, 46, 805-813.	2.2	30
40	A comprehensive kinetic study of the conventional free-radical polymerization of seven-membered cyclic ketene acetals. <i>Polymer Chemistry</i> , 2017, 8, 5139-5147.	1.9	30
41	Polyesters by a Radical Pathway: Rationalization of the Cyclic Ketene Acetal Efficiency. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14517-14526.	7.2	28
42	RAFT/MADIX copolymerization of vinyl acetate and 5,6-benzo-2-methylene-1,3-dioxepane. <i>Journal of Polymer Science Part A</i> , 2014, 52, 104-111.	2.5	27
43	UV-Induced Micropatterning of Complex Functional Surfaces by Photopolymerization Controlled by Alkoxyamines. <i>Langmuir</i> , 2015, 31, 10026-10036.	1.6	27
44	Degradable Copolymer Nanoparticles from Radical Ring-Opening Copolymerization between Cyclic Ketene Acetals and Vinyl Ethers. <i>Biomacromolecules</i> , 2019, 20, 305-317.	2.6	27
45	Elaboration of antimicrobial polymeric materials by dispersion of well-defined amphiphilic methacrylic SG1-based copolymers. <i>Polymer Chemistry</i> , 2018, 9, 3127-3141.	1.9	26
46	Peculiar Behavior of Degenerative Chain Transfer Polymerization of a Phosphonated Methacrylate. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 631-639.	1.1	25
47	Nitroxide Mediated Photopolymerization: A Versatile Tool for the Fabrication of Complex Multilayer Polyfunctional Copolymer Nanostructures. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400067.	1.9	25
48	Investigation of the End Group Fidelity at High Conversion during Nitroxide-Mediated Acrylate Polymerizations. <i>Macromolecules</i> , 2012, 45, 5371-5378.	2.2	23
49	H ₂ transfer reaction during decomposition of <i>N</i> -(2-methylpropyl)- <i>N</i> -(1-diethylphosphono-2-dimethylpropyl)- <i>N</i> -oxyl (SG1)-based alkoxyamines. <i>Journal of Polymer Science Part A</i> , 2013, 51, 1323-1336.	2.5	23
50	A complete kinetic study of a versatile functional monomer: acetoacetoxyethyl methacrylate (AAEMA). <i>Polymer Chemistry</i> , 2016, 7, 5518-5525.	1.9	23
51	Mechanistic Investigation of μ -Thiono-Caprolactone Radical Polymerization: An Interesting Tool to Insert Weak Bonds into Poly(vinyl esters). <i>ACS Applied Polymer Materials</i> , 2021, 3, 3264-3271.	2.0	23
52	Random Copolymers with Pendant Cationic Mixed-Ligand Terpyridine-Based Iridium (III) Complexes: Synthesis and Application in Light-Emitting Devices. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 1616-1628.	1.1	22
53	Understanding and improving direct UV detection of monosaccharides and disaccharides in free solution capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2014, 809, 183-193.	2.6	22
54	Light-Sensitive Alkoxyamines as Versatile Spatially- and Temporally- Controlled Precursors of Alkyl Radicals and Nitroxides. <i>Journal of the American Chemical Society</i> , 2018, 140, 3339-3344.	6.6	22

#	ARTICLE	IF	CITATIONS
55	A facile route to heterotelechelic polymer prodrug nanoparticles for imaging, drug delivery and combination therapy. <i>Journal of Controlled Release</i> , 2018, 286, 425-438.	4.8	22
56	DFT-calculation-assisted prediction of the copolymerization between cyclic ketene acetals and traditional vinyl monomers. <i>Polymer Chemistry</i> , 2020, 11, 7159-7169.	1.9	22
57	Thionolactone as a Resin Additive to Prepare (Bio)degradable 3D Objects via VAT Photopolymerization**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	22
58	Heterotelechelic polymer prodrug nanoparticles: Adaptability to different drug combinations and influence of the dual functionalization on the cytotoxicity. <i>Journal of Controlled Release</i> , 2019, 295, 223-236.	4.8	21
59	N-Acetoxy-phthalimide (NAPI) as a new H-abstracting agent at high temperature: application to the melt functionalization of polyethylene. <i>Polymer Chemistry</i> , 2013, 4, 2676.	1.9	20
60	Molecular Weight and Tacticity of Oligoacrylates by Capillary Electrophoresis - Mass Spectrometry. <i>Australian Journal of Chemistry</i> , 2010, 63, 1219.	0.5	17
61	Separation of poly(acrylic acid) salts according to topology using capillary electrophoresis in the critical conditions. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 9009-9020.	1.9	17
62	One-Step Synthesis of Azlactone-Functionalized SG1-Based Alkoxyamine for Nitroxide-Mediated Polymerization and Bioconjugation. <i>Macromolecules</i> , 2015, 48, 2087-2097.	2.2	16
63	Light-active azaphenylene alkoxyamines: fast and efficient mediators of a photo-induced persistent radical effect. <i>RSC Advances</i> , 2016, 6, 80328-80333.	1.7	16
64	A Step Towards High-Molecular-Weight Living/Controlled Polystyrene Using SG1-Mediated Polymerization. <i>Macromolecular Reaction Engineering</i> , 2010, 4, 403-414.	0.9	15
65	Radical Copolymerization of Vinyl Ethers and Cyclic Ketene Acetals as a Versatile Platform to Design Functional Polyesters. <i>Angewandte Chemie</i> , 2017, 129, 16742-16747.	1.6	15
66	Crowded Phosphonylated Alkoxyamines with Low Dissociation Temperatures: A Milestone in Nitroxide-Mediated Polymerization. <i>ACS Symposium Series</i> , 2006, , 326-341.	0.5	14
67	Characterization of Functional Poly(ethylene oxide)s and Their Corresponding Polystyrene Block Copolymers by Liquid Chromatography under Critical Conditions in Organic Solvents. <i>Macromolecules</i> , 2012, 45, 7171-7178.	2.2	14
68	Enhanced Spin Capturing Polymerization of Ethylene. <i>Macromolecules</i> , 2013, 46, 29-36.	2.2	13
69	Effect of nitroxyl-based radicals on the melt radical grafting of maleic anhydride onto polyethylene in presence of a peroxide. <i>European Polymer Journal</i> , 2015, 66, 342-351.	2.6	13
70	On the structure-control relationship of amide-functionalized SG1-based alkoxyamines for nitroxide-mediated polymerization and conjugation. <i>Polymer Chemistry</i> , 2015, 6, 5693-5704.	1.9	13
71	Laser Direct Writing of Arbitrary Complex Polymer Microstructures by Nitroxide-Mediated Photopolymerization. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30779-30786.	4.0	13
72	SG1 Nitroxide Analogues: a Comparative Study. <i>Australian Journal of Chemistry</i> , 2010, 63, 1237.	0.5	10

#	ARTICLE	IF	CITATIONS
73	Preparation of PVDF-grafted-PS involving nitroxides. <i>European Polymer Journal</i> , 2018, 109, 55-63.	2.6	10
74	Degree of branching in poly(acrylic acid) prepared by controlled and conventional radical polymerization. <i>Polymer Chemistry</i> , 2019, 10, 2469-2476.	1.9	10
75	Chemically Induced Dynamic Nuclear Polarization during the Thermolysis of Alkoxyamines: A New Approach to Detect the Occurrence of H-Transfer Reactions. <i>Polymers</i> , 2010, 2, 364-377.	2.0	9
76	Acyloxyimide derivatives as efficient promoters of polyolefin C-H functionalization: application in the melt grafting of maleic anhydride onto polyethylene. <i>Polymer Chemistry</i> , 2019, 10, 4336-4345.	1.9	8
77	Mesolytic Versus Homolytic Cleavage in Photochemical Nitroxide-Mediated Polymerization. <i>Macromolecules</i> , 2020, 53, 1567-1572.	2.2	8
78	Cellular Response to Linear and Branched Poly(acrylic acid). <i>Macromolecular Bioscience</i> , 2015, 15, 1724-1734.	2.1	7
79	Improving the control of styrene polymerization at 60 °C using a dialkylated δ -hydrogenated nitroxide. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3750-3757.	2.5	6
80	Stability of SG1 nitroxide towards unprotected sugar and lithium salts: a preamble to cellulose modification by nitroxide-mediated graft polymerization. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 1589-1600.	1.3	6
81	Chemical modification of poly(lactic acid) induced by thermal decomposition of N-acetoxyphthalimide during extrusion. <i>Journal of Polymer Science Part A</i> , 2019, 57, 120-129.	2.5	6
82	Polyesters by a Radical Pathway: Rationalization of the Cyclic Ketene Acetal Efficiency. <i>Angewandte Chemie</i> , 2020, 132, 14625-14634.	1.6	6
83	Elucidation of a side reaction occurring during nitroxide-mediated polymerization of cyclic ketene acetals by tandem mass spectrometric end-group analysis of aliphatic polyesters. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 2302-2308.	0.7	5
84	Peptide ligation from alkoxyamine based radical addition. <i>Chemical Communications</i> , 2014, 50, 2744-2747.	2.2	4
85	One-Step Synthesis of Degradable Vinylic Polymer-Based Latexes via Aqueous Radical Emulsion Polymerization. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
86	Functionalization of poly(lactide) with <i>N</i> -phenyl maleimide using <i>N</i> -acetoxyphthalimide during reactive extrusion. <i>Journal of Polymer Science Part A</i> , 2019, 57, 917-928.	2.5	3
87	A versatile and straightforward process to turn plastics into antibacterial materials. <i>Polymer Chemistry</i> , 2021, 13, 69-79.	1.9	3
88	Catalyst- and Initiator-Free Radical Addition under Mild Conditions: A Macromolecular Conjugation Tool. <i>Chemistry - A European Journal</i> , 2018, 24, 3699-3702.	1.7	2
89	Melt radical grafting of diethylmaleate and maleic anhydride onto oligoamide-11 (OA11) and polyamide-11 (PA11) in presence of acyloxyimide derivatives: Toward the compatibilization of PA11/EVOH blends. <i>Materials Today Communications</i> , 2019, 19, 271-276.	0.9	2
90	Chapter 7. NMP of Methacrylic Esters: How to Circumvent a Long-time Obstacle. <i>RSC Polymer Chemistry Series</i> , 2015, , 305-348.	0.1	2

#	ARTICLE	IF	CITATIONS
91	Thionolactone as a Resin Additive to Prepare (Bio)degradable 3D Objects via VAT Photopolymerization**. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
92	Living Radical Polymerization: Nitroxide-Mediated Polymerization. , 2015, , 1133-1148.		0
93	Reducing the Hydrogen Atom Abstraction Efficiencies of Benzophenone-Based Photosensitive Alkoxyamines. <i>ACS Symposium Series</i> , 2018, , 105-133.	0.5	0
94	Living Radical Polymerization: Nitroxide-Mediated Polymerization. , 2014, , 1-16.		0