Yohann Guillaneuf

List of Publications by Year
in descending order

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94 papers	4,406 citations	126907 33 h-index	110387 64 g-index
102 all docs	102 docs citations	102 times ranked	2934 citing authors

#	Article	IF	Citations
1	Oneâ€Step Synthesis of Degradable Vinylic Polymerâ€Based Latexes via Aqueous Radical Emulsion Polymerization. Angewandte Chemie - International Edition, 2022, 61, .	13.8	42
2	Oneâ€Step Synthesis of Degradable Vinylic Polymerâ€Based Latexes via Aqueous Radical Emulsion Polymerization. Angewandte Chemie, 2022, 134, .	2.0	4
3	Thionolactone as a Resin Additive to Prepare (Bio)degradable 3D Objects via VAT Photopolymerization**. Angewandte Chemie, 2022, 134, .	2.0	2
4	Thionolactone as a Resin Additive to Prepare (Bio)degradable 3D Objects via VAT Photopolymerization**. Angewandte Chemie - International Edition, 2022, 61, .	13.8	22
5	Mechanistic Investigation of Îµ-Thiono-Caprolactone Radical Polymerization: An Interesting Tool to Insert Weak Bonds into Poly(vinyl esters). ACS Applied Polymer Materials, 2021, 3, 3264-3271.	4.4	23
6	A versatile and straightforward process to turn plastics into antibacterial materials. Polymer Chemistry, 2021, 13, 69-79.	3.9	3
7	DFT-calculation-assisted prediction of the copolymerization between cyclic ketene acetals and traditional vinyl monomers. Polymer Chemistry, 2020, 11, 7159-7169.	3.9	22
8	Polyesters by a Radical Pathway: Rationalization of the Cyclic Ketene Acetal Efficiency. Angewandte Chemie - International Edition, 2020, 59, 14517-14526.	13.8	28
9	Laser Direct Writing of Arbitrary Complex Polymer Microstructures by Nitroxide-Mediated Photopolymerization. ACS Applied Materials & Interfaces, 2020, 12, 30779-30786.	8.0	13
10	Polyesters by a Radical Pathway: Rationalization of the Cyclic Ketene Acetal Efficiency. Angewandte Chemie, 2020, 132, 14625-14634.	2.0	6
11	Mesolytic Versus Homolytic Cleavage in Photochemical Nitroxide-Mediated Polymerization. Macromolecules, 2020, 53, 1567-1572.	4.8	8
12	Acyloxyimide derivatives as efficient promoters of polyolefin Câ€“H functionalization: application in the melt grafting of maleic anhydride onto polyethylene. Polymer Chemistry, 2019, 10, 4336-4345.	3.9	8
13	Degree of branching in poly(acrylic acid) prepared by controlled and conventional radical polymerization. Polymer Chemistry, 2019, 10, 2469-2476.	3.9	10
14	Functionalization of poly(lactide) with Nâ€phenyl maleimide using Nâ€acetoxyâ€phthalimide during reactive extrusion. Journal of Polymer Science Part A, 2019, 57, 917-928.	2.3	3
15	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. Materials Today Communications, 2019, 19, 271-276.	1.9	2
16	Heterotelechelic polymer prodrug nanoparticles: Adaptability to different drug combinations and influence of the dual functionalization on the cytotoxicity. Journal of Controlled Release, 2019, 295, 223-236.	9.9	21
17	Chemical modification of poly(lactic acid) induced by thermal decomposition of N â€acetoxyâ€phthalimide during extrusion. Journal of Polymer Science Part A, 2019, 57, 120-129.	2.3	6
18	Degradable Copolymer Nanoparticles from Radical Ring-Opening Copolymerization between Cyclic Ketene Acetals and Vinyl Ethers. Biomacromolecules, 2019, 20, 305-317.	5.4	27

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19	Light-Sensitive Alkoxyamines as Versatile Spatially- and Temporally- Controlled Precursors of Alkyl Radicals and Nitroxides. Journal of the American Chemical Society, 2018, 140, 3339-3344.	13.7	22
20	Catalystâ€•and Initiatorâ€Free Radical Addition under Mild Conditions: A Macromolecular Conjugation Tool. Chemistry - A European Journal, 2018, 24, 3699-3702.	3.3	2
21	Reducing the Hydrogen Atom Abstraction Efficiencies of Benzophenone-Based Photosensitive Alkoxyamines. ACS Symposium Series, 2018, , 105-133.	0.5	0
22	Preparation of PVDF-grafted-PS involving nitroxides. European Polymer Journal, 2018, 109, 55-63.	5.4	10
23	Elaboration of antimicrobial polymeric materials by dispersion of well-defined amphiphilic methacrylic SG1-based copolymers. Polymer Chemistry, 2018, 9, 3127-3141.	3.9	26
24	A facile route to heterotelechelic polymer prodrug nanoparticles for imaging, drug delivery and combination therapy. Journal of Controlled Release, 2018, 286, 425-438.	9.9	22
25	Simulation of the Degradation of Cyclic Ketene Acetal and Vinylâ€Based Copolymers Synthesized via a Radical Process: Influence of the Reactivity Ratios on the Degradability Properties. Macromolecular Rapid Communications, 2018, 39, e1800193.	3.9	47
26	Radical Ring-Opening Polymerization: Scope, Limitations, and Application to (Bio)Degradable Materials. Chemical Reviews, 2017, 117, 1319-1406.	47.7	254
27	A comprehensive kinetic study of the conventional free-radical polymerization of seven-membered cyclic ketene acetals. Polymer Chemistry, 2017, 8, 5139-5147.	3.9	30
28	Radical Copolymerization of Vinyl Ethers and Cyclic Ketene Acetals as a Versatile Platform to Design Functional Polyesters. Angewandte Chemie - International Edition, 2017, 56, 16515-16520.	13.8	65
29	Radical Copolymerization of Vinyl Ethers and Cyclic Ketene Acetals as a Versatile Platform to Design Functional Polyesters. Angewandte Chemie, 2017, 129, 16742-16747.	2.0	15
30	A complete kinetic study of a versatile functional monomer: acetoacetoxyethyl methacrylate (AAEMA). Polymer Chemistry, 2016, 7, 5518-5525.	3.9	23
31	Light-active azaphenalene alkoxyamines: fast and efficient mediators of a photo-induced persistent radical effect. RSC Advances, 2016, 6, 80328-80333.	3.6	16
32	Elucidation of a side reaction occurring during nitroxide-mediated polymerization of cyclic ketene acetals by tandem mass spectrometric end-group analysis of aliphatic polyesters. Rapid Communications in Mass Spectrometry, 2015, 29, 2302-2308.	1.5	5
33	Cellular Response to Linear and Branched Poly(acrylic acid). Macromolecular Bioscience, 2015, 15, 1724-1734.	4.1	7
34	Living Radical Polymerization: Nitroxide-Mediated Polymerization. , 2015, , 1133-1148.		0
35	Effect of nitroxyl-based radicals on the melt radical grafting of maleic anhydride onto polyethylene in presence of a peroxide. European Polymer Journal, 2015, 66, 342-351.	5.4	13
36	A ring to rule them all: a cyclic ketene acetal comonomer controls the nitroxide-mediated polymerization of methacrylates and confers tunable degradability. Chemical Communications, 2015, 51, 12847-12850.	4.1	43

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37	One-Step Synthesis of Azlactone-Functionalized SG1-Based Alkoxyamine for Nitroxide-Mediated Polymerization and Bioconjugation. Macromolecules, 2015, 48, 2087-2097.	4.8	16
38	On the structureâ€“control relationship of amide-functionalized SG1-based alkoxyamines for nitroxide-mediated polymerization and conjugation. Polymer Chemistry, 2015, 6, 5693-5704.	3.9	13
39	Simulation of radical polymerization of methyl methacrylate at room temperature using a tertiary amine/BPO initiating system. Polymer Chemistry, 2015, 6, 5719-5727.	3.9	47
40	Nitroxideâ€Mediated Polymerization of Methacrylic Esters: Insights and Solutions to a Longâ€Standing Problem. Macromolecular Rapid Communications, 2015, 36, 1227-1247.	3.9	53
41	UV-Induced Micropatterning of Complex Functional Surfaces by Photopolymerization Controlled by Alkoxyamines. Langmuir, 2015, 31, 10026-10036.	3.5	27
42	Photoredox catalysis using a new iridium complex as an efficient toolbox for radical, cationic and controlled polymerizations under soft blue to green lights. Polymer Chemistry, 2015, 6, 613-624.	3.9	87
43	Novel polymer synthesis methodologies using combinations of thermally- and photochemically-induced nitroxide mediated polymerization. Polymer Chemistry, 2015, 6, 754-763.	3.9	44
44	Chapter 7. NMP of Methacrylic Esters: How to Circumvent a Long-time Obstacle. RSC Polymer Chemistry Series, 2015, , 305-348.	0.2	2
45	RAFT/MADIX copolymerization of vinyl acetate and 5,6â€benzoâ€2â€methyleneâ€1,3â€dioxepane. Journal of Polymer Science Part A, 2014, 52, 104-111.	2.3	27
46	Nitroxide Mediated Photopolymerization: A Versatile Tool for the Fabrication of Complex Multilayer Polyfunctional Copolymer Nanostructures. Advanced Materials Interfaces, 2014, 1, 1400067.	3.7	25
47	Nitroxide mediated polymerization of methacrylates at moderate temperature. Polymer Chemistry, 2014, 5, 335-340.	3.9	31
48	Understanding and improving direct UV detection of monosaccharides and disaccharides in free solution capillary electrophoresis. Analytica Chimica Acta, 2014, 809, 183-193.	5.4	22
49	Peptide ligation from alkoxyamine based radical addition. Chemical Communications, 2014, 50, 2744-2747.	4.1	4
50	Nitroxideâ€Mediated Radical Ringâ€Opening Copolymerization: Chainâ€End Investigation and Block Copolymer Synthesis. Macromolecular Rapid Communications, 2014, 35, 484-491.	3.9	45
51	Living Radical Polymerization: Nitroxide-Mediated Polymerization. , 2014, , 1-16.		0
52	Separation of poly(acrylic acid) salts according to topology using capillary electrophoresis in the critical conditions. Analytical and Bioanalytical Chemistry, 2013, 405, 9009-9020.	3.7	17
53	Scope and limitations of the nitroxide-mediated radical ring-opening polymerization of cyclic ketene acetals. Polymer Chemistry, 2013, 4, 4776.	3.9	38
54	Heterogeneous modification of chitosan via nitroxide-mediated polymerization. Polymer Chemistry, 2013, 4, 322-328.	3.9	36

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55	Nitroxide-mediated polymerization. Progress in Polymer Science, 2013, 38, 63-235.	24.7	1,167
56	Indolinic nitroxides: evaluation of their potential as universal control agents for nitroxide mediated polymerization. Polymer Chemistry, 2013, 4, 3694.	3.9	33
57	Degradable and Comb-Like PEG-Based Copolymers by Nitroxide-Mediated Radical Ring-Opening Polymerization. Biomacromolecules, 2013, 14, 3769-3779.	5.4	87
58	Hâ€transfer reaction during decomposition of Nâ€(2â€methylpropyl)â€Nâ€(1â€diethylphosphonoâ€2,2â€dimethylpropyl)â€Nâ€oxyl (SG1)â€based alkoxyamines. Journal of Polymer Science Part A, 2013, 51, 1323-1336.	2.3	23
59	N-Acetoxy-phthalimide (NAPI) as a new H-abstracting agent at high temperature: application to the melt functionalization of polyethylene. Polymer Chemistry, 2013, 4, 2676.	3.9	20
60	Understanding the Controlled Polymerization of Methyl Methacrylate with Low Concentrations of 9-(4-Vinylbenzyl)-9H-carbazole Comonomer by Nitroxide-Mediated Polymerization: The Pivotal Role of Reactivity Ratios. Macromolecules, 2013, 46, 805-813.	4.8	30
61	Enhanced Spin Capturing Polymerization of Ethylene. Macromolecules, 2013, 46, 29-36.	4.8	13
62	Stability of SG1 nitroxide towards unprotected sugar and lithium salts: a preamble to cellulose modification by nitroxide-mediated graft polymerization. Beilstein Journal of Organic Chemistry, 2013, 9, 1589-1600.	2.2	6
63	Characterization of Functional Poly(ethylene oxide)s and Their Corresponding Polystyrene Block Copolymers by Liquid Chromatography under Critical Conditions in Organic Solvents. Macromolecules, 2012, 45, 7171-7178.	4.8	14
64	Improving the control of styrene polymerization at 60 Â°C using a dialkylated Î±â€hydrogenated nitroxide. Journal of Polymer Science Part A, 2012, 50, 3750-3757.	2.3	6
65	Investigation of the End Group Fidelity at High Conversion during Nitroxide-Mediated Acrylate Polymerizations. Macromolecules, 2012, 45, 5371-5378.	4.8	23
66	First peptide/protein PEGylation with functional polymers designed by nitroxide-mediated polymerization. Polymer Chemistry, 2011, 2, 1523.	3.9	68
67	Intermolecular radical 1,2-addition of the BlocBuilder MA alkoxyamine onto activated olefins: a versatile tool for the synthesis of complex macromolecular architecture. Polymer Chemistry, 2011, 2, 1624.	3.9	32
68	Structural effects on the photodissociation of alkoxyamines. Organic and Biomolecular Chemistry, 2011, 9, 2892.	2.8	33
69	Random Copolymers with Pendant Cationic Mixedâ€Ligand Terpyridineâ€Based Iridium (III) Complexes: Synthesis and Application in Lightâ€Emitting Devices. Macromolecular Chemistry and Physics, 2011, 212, 1616-1628.	2.2	22
70	A Step Towards Highâ€Molecularâ€Weight Living/Controlled Polystyrene Using SG1â€Mediated Polymerization. Macromolecular Reaction Engineering, 2010, 4, 403-414.	1.5	15
71	Photodissociation Rate Constants of New Light Sensitive Alkoxyamines. Macromolecular Rapid Communications, 2010, 31, 1383-1388.	3.9	39
72	Importance of the Position of the Chromophore Group on the Dissociation Process of Light Sensitive Alkoxyamines. Macromolecular Rapid Communications, 2010, 31, 1909-1913.	3.9	57

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73	Photosensitized alkoxyamines as bicomponent radical photoinitiators. Journal of Polymer Science Part A, 2010, 48, 2910-2915.	2.3	41
74	SG1 Nitroxide Analogues: a Comparative Study. Australian Journal of Chemistry, 2010, 63, 1237.	0.9	10
75	Molecular Weight and Tacticity of Oligoacrylates by Capillary Electrophoresis - Mass Spectrometry. Australian Journal of Chemistry, 2010, 63, 1219.	0.9	17
76	Chemically Induced Dynamic Nuclear Polarization during the Thermolysis of Alkoxyamines: A New Approach to Detect the Occurrence of H-Transfer Reactions. Polymers, 2010, 2, 364-377.	4.5	9
77	Toward Nitroxide-Mediated Photopolymerization. Macromolecules, 2010, 43, 2204-2212.	4.8	180
78	Radical Chain End Chemical Transformation of SG1-Based Polystyrenes. Macromolecules, 2010, 43, 91-100.	4.8	40
79	Kinetic Modeling of Nitroxideâ€Mediated Polymerization: Conditions for Living and Controlled Polymerization. Macromolecular Theory and Simulations, 2009, 18, 402-419.	1.4	45
80	Kinetic study of Hâ€atom transfer in imidazolineâ€, imidazolidineâ€, and pyrrolidineâ€based alkoxyamines: Consequences for nitroxideâ€mediated polymerization. Journal of Polymer Science Part A, 2009, 47, 6579-6595.	2.3	39
81	Peculiar Behavior of Degenerative Chain Transfer Polymerization of a Phosphonated Methacrylate. Macromolecular Chemistry and Physics, 2009, 210, 631-639.	2.2	25
82	Using apparent molecular weight from SEC in controlled/living polymerization and kinetics of polymerization. Journal of Polymer Science Part A, 2008, 46, 897-911.	2.3	63
83	Synthesis of methacrylate derivatives oligomers by dithiobenzoateâ€RAFTâ€mediated polymerization. Journal of Polymer Science Part A, 2008, 46, 2277-2289.	2.3	37
84	Hydrogenâ€transfer reaction in nitroxide mediated polymerization of methyl methacrylate: 2,2â€Diphenylâ€3â€phenyliminoâ€2,3â€dihydroindolâ€1â€yloxyl nitroxide (DPAIO) vs. TEMPO. Journal of Polymer Science Part A, 2008, 46, 6828-6842.	2.3	46
85	Kinetic study on the living/controlled cationic polymerization of pâ€methoxystyrene coinitiated by tris(pentafluorophenyl)borane. Journal of Polymer Science Part A, 2008, 46, 6928-6939.	2.3	30
86	Effect of the Penultimate Unit on the Cï£¿ON Bond Homolysis in SG1â€Based Alkoxyamines. Macromolecular Chemistry and Physics, 2008, 209, 220-224.	2.2	35
87	Toward a full characterization of native starch: Separation and detection by size-exclusion chromatography. Journal of Chromatography A, 2008, 1205, 60-70.	3.7	43
88	Synthesis of Highly Labile SG1-Based Alkoxyamines under Photochemical Conditions. Journal of Organic Chemistry, 2008, 73, 4728-4731.	3.2	45
89	First Effective Nitroxide-Mediated Polymerization of Methyl Methacrylate. Macromolecules, 2007, 40, 3108-3114.	4.8	155
90	Nitroxide-Mediated Polymerization:Â The Pivotal Role of thekdValue of the Initiating Alkoxyamine and the Importance of the Experimental Conditions. Macromolecules, 2006, 39, 5238-5250.	4.8	159

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91	Controlled Radical Polymerization in Aqueous Dispersed Media. Australian Journal of Chemistry, 2006, 59, 693.	0.9	123
92	Crowded Phosphonylated Alkoxyamines with Low Dissociation Temperatures: A Milestone in Nitroxide-Mediated Polymerization. ACS Symposium Series, 2006, , 326-341.	0.5	14
93	Nitroxide-Mediated Polymerization of Methyl Methacrylate Using an SG1-Based Alkoxyamine: How the Penultimate Effect Could Lead to Uncontrolled and Unliving Polymerization. Macromolecular Chemistry and Physics, 2006, 207, 1278-1288.	2.2	110
94	New Experimental Procedure To Determine the Recombination Rate Constants between Nitroxides and Macroradicals. Macromolecules, 2005, 38, 4638-4646.	4.8	37