

Sylvain Marque

List of Publications by Year in descending order

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197
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5,133
citations

94269

37
h-index

128067

60
g-index

212
all docs

212
docs citations

212
times ranked

2815
citing authors

#	ARTICLE	IF	CITATIONS
1	Factors Influencing the C–O Bond Homolysis of Trialkylhydroxylamines. <i>Macromolecules</i> , 2000, 33, 4403-4410.	2.2	252
2	Living Character of Polymer Chains Prepared via Nitroxide-Mediated Controlled Free-Radical Polymerization of Methyl Methacrylate in the Presence of a Small Amount of Styrene at Low Temperature. <i>Macromolecules</i> , 2006, 39, 8274-8282.	2.2	212
3	Kinetic subtleties of nitroxide mediated polymerization. <i>Chemical Society Reviews</i> , 2011, 40, 2189.	18.7	161
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	Factors Influencing the C–O Bond Homolysis of Alkoxyamines: Effects of Bonding and Polar Substituents. <i>Journal of Organic Chemistry</i> , 2001, 66, 1146-1156.	1.7	156
6	First Effective Nitroxide-Mediated Polymerization of Methyl Methacrylate. <i>Macromolecules</i> , 2007, 40, 3108-3114.	2.2	155
7	Polar, Steric, and Stabilization Effects in Alkoxyamines C–ON Bond Homolysis: A Multiparameter Analysis. <i>Macromolecules</i> , 2005, 38, 2638-2650.	2.2	148
8	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
9	Reactivity of Phosphorus Centered Radicals. <i>Topics in Current Chemistry</i> , 0, , 43-76.	4.0	104
10	Scavenging of Organic C-Centered Radicals by Nitroxides. <i>Chemical Reviews</i> , 2014, 114, 5011-5056.	23.0	94
11	Radical reaction kinetics during homolysis of N-alkoxyamines: verification of the persistent radical effect. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1998, , 1553-1560.	0.9	92
12	Influence of the Nitroxide Structure on the Homolysis Rate Constant of Alkoxyamines: A Taft–Ingold Analysis. <i>Journal of Organic Chemistry</i> , 2003, 68, 7582-7590.	1.7	87
13	Linear-Free Energy Relationships for Modeling Structure–Reactivity Trends in Controlled Radical Polymerization. <i>Macromolecules</i> , 2011, 44, 7568-7583.	2.2	69
14	Design and use of α -phosphorus nitroxides and alkoxyamines in controlled/living free radical polymerizations. <i>Macromolecular Symposia</i> , 2002, 182, 225-247.	0.4	65
15	Intermolecular radical addition of alkoxyamines onto olefins: An easy access to advanced macromolecular architectures precursors. <i>Polymer</i> , 2007, 48, 5219-5225.	1.8	59
16	Alkoxyamine-Mediated Radical Synthesis of Indolinones and Indolines. <i>Organic Letters</i> , 2003, 5, 4943-4945.	2.4	58
17	Steric and Polar Effects of the Cyclic Nitroxyl Fragment on the C–ON Bond Homolysis Rate Constant. <i>Macromolecules</i> , 2005, 38, 9974-9984.	2.2	58
18	Unexpectedly High Levels of Organic Compounds Released by Indoor Photocatalytic Paints. <i>Environmental Science & Technology</i> , 2018, 52, 11328-11337.	4.6	58

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19	Polypropylene degradation: Theoretical and experimental investigations. <i>Polymer Degradation and Stability</i> , 2010, 95, 782-791.	2.7	53
20	Factors Influencing C-N Bond Homolysis in Alkoxyamines: Unexpected Behavior of SG1 (N-(2-methyl-2-propyl)-N-(1-diethylphosphono-2,2-dimethylpropyl)-N-oxyl)-Based Alkoxyamines. <i>Journal of Organic Chemistry</i> , 2004, 69, 4925-4930.	1.7	51
21	Lack of Chain Length Effect on the Rate of Homolysis of Polystyryl-SG1 Alkoxyamines. <i>Macromolecules</i> , 2002, 35, 3790-3791.	2.2	50
22	First proton triggered C-N bond homolysis in alkoxyamines. <i>Chemical Communications</i> , 2011, 47, 4291.	2.2	50
23	Labile alkoxyamines: past, present, and future. <i>Chemical Communications</i> , 2014, 50, 7921-7928.	2.2	50
24	Alkoxyamine C-N Bond Homolysis: Stereoelectronic Effects. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 1755-1768.	1.2	49
25	Linear Free-Energy Relationships for the Alkyl Radical Affinities of Nitroxides: A Theoretical Study. <i>Macromolecules</i> , 2010, 43, 3728-3743.	2.2	47
26	Chemically Triggered C-N Bond Homolysis of Alkoxyamines. Quaternization of the Alkyl Fragment. <i>Organic Letters</i> , 2012, 14, 358-361.	2.4	47
27	Hydrogen-transfer reaction in nitroxide mediated polymerization of methyl methacrylate: 2,2-diphenyl-1-picrylhydrazyl (DPPH) vs. 2,2,6,6-tetramethylpiperidin-1-yl-1-oxyl (TEMPO). <i>Journal of Polymer Science Part A</i> , 2008, 46, 6828-6842.	2.5	46
28	Synthesis of Highly Labile SG1-Based Alkoxyamines under Photochemical Conditions. <i>Journal of Organic Chemistry</i> , 2008, 73, 4728-4731.	1.7	45
29	Tyrosine-Targeted Spin Labeling and EPR Spectroscopy: An Alternative Strategy for Studying Structural Transitions in Proteins. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9108-9111.	7.2	44
30	Spin-Trapping Evidence for the Formation of Alkyl, Alkoxy, and Alkylperoxy Radicals in the Reactions of Dialkylzincs with Oxygen. <i>Chemistry - A European Journal</i> , 2011, 17, 1586-1595.	1.7	43
31	Unprecedented plasmon-induced nitroxide-mediated polymerization (PI-NMP): a method for preparation of functional surfaces. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12414-12419.	5.2	42
32	Steric Effects of Ring Substituents on the Decay and Reformation Kinetics of Piperazinone-Based Alkoxyamines. <i>Macromolecules</i> , 2003, 36, 3440-3442.	2.2	40
33	Alkoxyamines of Stable Aromatic Nitroxides: N-Ovs. C-O Bond Homolysis. <i>Helvetica Chimica Acta</i> , 2006, 89, 2312-2326.	1.0	40
34	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
35	Nazarov reagents and their use in organic synthesis. <i>Tetrahedron</i> , 2013, 69, 8325-8348.	1.0	39
36	Enlarging the Panoply of Site-Directed Spin Labeling Electron Paramagnetic Resonance (SDSL-EPR): Sensitive and Selective Spin-Labeling of Tyrosine Using an Isoindoline-Based Nitroxide. <i>Bioconjugate Chemistry</i> , 2013, 24, 1110-1117.	1.8	39

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37	Alkoxyamines: a new family of pro-drugs against cancer. Concept for theranostics. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 719-723.	1.5	39
38	Development and Application of Spin Traps, Spin Probes, and Spin Labels. <i>Methods in Enzymology</i> , 2015, 563, 365-396.	0.4	39
39	Ozone, chemical reactivity and biological functions. <i>Tetrahedron</i> , 2018, 74, 6221-6261.	1.0	39
40	Role of the Adducted Cation in the Release of Nitroxide End Group of Controlled Polymer in Mass Spectrometry. <i>Macromolecules</i> , 2009, 42, 1849-1859.	2.2	36
41	Synthesis of a series of SG1 2-[N-tert-butyl-N-(1-diethoxyphosphoryl-2,2-dimethylpropyl)aminoxyl] based alkoxyamines, SG1-CH(Me)CO ₂ R, and measurement of the homolysis rate constants of the C-ON bond. <i>Journal of Polymer Science Part A</i> , 2004, 42, 3504-3515.	2.5	35
42	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
43	XPS analysis of PE and EVA samples irradiated at different \hat{I}^3 -doses. <i>Applied Surface Science</i> , 2018, 427, 966-972.	3.1	35
44	Nitroxide Bound \hat{I}^2 -Cyclodextrin: Is There an Inclusion Complex?. <i>Journal of Organic Chemistry</i> , 2006, 71, 7657-7667.	1.7	34
45	Laser Flash Photolysis and CIDNP Studies of Steric Effects on Coupling Rate Constants of Imidazolidine Nitroxide with Carbon-Centered Radicals, Methyl Isobutyrate-2-yl and tert-Butyl Propionate-2-yl. <i>Journal of Organic Chemistry</i> , 2006, 71, 6044-6052.	1.7	34
46	Chemically Triggered C-ON Bond Homolysis in Alkoxyamines. Part 2: DFT Investigation and Application of the pH Effect on NMP. <i>Macromolecular Rapid Communications</i> , 2012, 33, 152-157.	2.0	34
47	Influence of Solvent and Polymer Chain Length on the Hemolysis of SG1-Based Alkoxyamines. <i>ACS Symposium Series</i> , 2003, , 412-423.	0.5	33
48	Long-Range Polar Effect on the C-ON Bond Homolysis in (tert-Butyl[1-(diethylphosphonyl)-2,2-dimethylpropyl]aminoxyl) SG1-Based Alkoxyamines. <i>Collection of Czechoslovak Chemical Communications</i> , 2004, 69, 2223-2238.	1.0	33
49	Reduced sample recovery in liquid chromatography at critical adsorption point of high molar mass polystyrene. <i>European Polymer Journal</i> , 2008, 44, 514-522.	2.6	33
50	FTIR study of ageing of \hat{I}^3 -irradiated biopharmaceutical EVA based film. <i>Polymer Degradation and Stability</i> , 2016, 129, 19-25.	2.7	33
51	\hat{I}^{\pm} -Phenyl-N-tert-butyl nitron-Type Derivatives Bound to \hat{I}^2 -Cyclodextrins: Syntheses, Thermokinetics of Self-Inclusion and Application to Superoxide Spin-Trapping. <i>Chemistry - A European Journal</i> , 2007, 13, 9344-9354.	1.7	32
52	Alkoxyamines: Toward a New Family of Theranostic Agents against Cancer. <i>Molecular Pharmaceutics</i> , 2014, 11, 2412-2419.	2.3	32
53	Switched external magnetic field CIDNP studies of coupling reaction of carbon-centered radicals with TEMPO. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 2254.	1.3	31
54	Degradation of \hat{I}^3 -irradiated polyethylene-ethylene vinyl alcohol-polyethylene multilayer films: An ESR study. <i>Polymer Degradation and Stability</i> , 2015, 122, 169-179.	2.7	31

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55	Polystyrene-block-poly(ethylene oxide) from nitroxide mediated polymerization: detection of minor species by coupled chromatographic techniques. <i>Polymer</i> , 2006, 47, 98-106.	1.8	30
56	Can the First Addition of Alkyl Radicals Play a Role in the Fate of NMP?. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 1345-1357.	1.1	30
57	One year monitoring by FTIR of ^{13}C -irradiated multilayer film PE/EVOH/PE. <i>Radiation Physics and Chemistry</i> , 2016, 125, 115-121.	1.4	30
58	Absolute Rate Constants for the Addition of the 1-(tert-Butoxy)carbonylethyl Radical to Alkenes in Solution. <i>Helvetica Chimica Acta</i> , 2001, 84, 2290-2300.	1.0	29
59	Diastereomeric excess upon cleavage and reformation of diastereomeric alkoxyamines. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 709-715.	1.5	28
60	New Concepts in Molecular Imaging: Non-Invasive MRI Spotting of Proteolysis Using an Overhauser Effect Switch. <i>PLoS ONE</i> , 2009, 4, e5244.	1.1	28
61	Alkoxyamine Re-Formation Reaction. Effects of the Nitroxide Fragment: A Multiparameter Analysis.. <i>Journal of Organic Chemistry</i> , 2012, 77, 4996-5005.	1.7	28
62	<i>In vivo</i> high-resolution 3D Overhauser-enhanced MRI in mice at 0.2%T. <i>Contrast Media and Molecular Imaging</i> , 2012, 7, 45-50.	0.4	28
63	Enzymatically Shifting Nitroxides for EPR Spectroscopy and Overhauser-Enhanced Magnetic Resonance Imaging. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13379-13384.	7.2	28
64	New Variants of Nitroxide Mediated Polymerization. <i>Polymers</i> , 2020, 12, 1481.	2.0	28
65	PPN-type nitrones: preparation and use of a new series of ^{12}C -phosphorylated spin-trapping agents. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1997, , 2513-2518.	0.9	27
66	SG1 based alkoxyamines as radical initiators for the synthesis of lactones and lactames. <i>Tetrahedron</i> , 2005, 61, 8752-8761.	1.0	27
67	Intramolecular Hydrogen Bonding: The Case of ^{12}C -Phosphorylated Nitroxide (=Aminoxy) Radical. <i>Helvetica Chimica Acta</i> , 2006, 89, 2119-2132.	1.0	26
68	Dynamics of the intrinsically disordered protein CP12 in its association with GAPDH in the green alga <i>Chlamydomonas reinhardtii</i> : a fuzzy complex. <i>Molecular BioSystems</i> , 2013, 9, 2869.	2.9	26
69	<i>In vivo</i> Overhauser-enhanced MRI of proteolytic activity. <i>Contrast Media and Molecular Imaging</i> , 2014, 9, 363-371.	0.4	26
70	Orthogonal Tyrosine and Cysteine Site-Directed Spin Labeling for Dipolar Pulse EPR Spectroscopy on Proteins. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4852-4857.	2.1	26
71	Aminomethylation of Michael Acceptors: Complementary Radical and Polar Approaches Mediated by Dialkylzincs. <i>Chemistry - A European Journal</i> , 2012, 18, 3241-3247.	1.7	25
72	Re-formation Reaction of Cyclic Nitroxide-Based Alkoxyamines: Steric and Polar/Stabilization Effects. <i>Helvetica Chimica Acta</i> , 2006, 89, 2330-2340.	1.0	24

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73	Chemically triggered C–ON bond homolysis of alkoxyamines. Part 4: solvent effect. <i>Polymer Chemistry</i> , 2012, 3, 2901.	1.9	24
74	EPR Investigation of Zinc/Iodine Exchange between Propargyl Iodides and Diethylzinc: Detection of Propargyl Radical by Spin Trapping. <i>Journal of Organic Chemistry</i> , 2012, 77, 9081-9086.	1.7	24
75	C–ON bond homolysis of alkoxyamines triggered by paramagnetic copper(II) salts. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 1464-1472.	3.0	24
76	Imidazoline and imidazolidine nitroxides as controlling agents in nitroxide-mediated pseudoliving radical polymerization. <i>Russian Chemical Reviews</i> , 2018, 87, 328-349.	2.5	24
77	Tetrathiosphoric acid tri(1-phenylethyl) ester and 1-phenylethyl-diphenylphosphinodithioate as controlled radical polymerization agents. <i>Tetrahedron Letters</i> , 2003, 44, 1227-1229.	0.7	23
78	2,5-Dihydro-1H-imidazole-Based Nitroxides as Prospective Mediators in Living Radical Polymerization. <i>Helvetica Chimica Acta</i> , 2006, 89, 2341-2353.	1.0	23
79	Chemically Triggered C–ON Bond Homolysis of Alkoxyamines. 5. Cybotactic Effect. <i>Journal of Organic Chemistry</i> , 2012, 77, 9634-9640.	1.7	23
80	H-atom transfer reaction during decomposition of N-(2-methylpropyl)-N-(1-diethylphosphono-2,2-dimethylpropyl)oxyl (SG1)-based alkoxyamines. <i>Journal of Polymer Science Part A</i> , 2013, 51, 1323-1336.	2.5	23
81	How intramolecular hydrogen bonding (IHB) controls the C–ON bond homolysis in alkoxyamines. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 8425-8439.	1.5	20
82	Chemically Triggered C–ON Bond Homolysis in Alkoxyamines. 6. Effect of the Counteranion. <i>Journal of Organic Chemistry</i> , 2013, 78, 7754-7757.	1.7	18
83	Smart Control of Nitroxide-Mediated Polymerization Initiators' Reactivity by pH, Complexation with Metals, and Chemical Transformations. <i>Materials</i> , 2019, 12, 688.	1.3	18
84	Effect of the Carboxylate Salt on the C–ON Bond Homolysis of SG1-Based Alkoxyamines. <i>ChemPhysChem</i> , 2008, 9, 272-281.	1.0	17
85	Zinc(II) Hexafluoroacetylacetonate Complexes of Alkoxyamines: NMR and Kinetic Investigations. First Step for a New Way to Prepare Hybrid Materials. <i>ChemistrySelect</i> , 2017, 2, 3584-3593.	0.7	17
86	Coordination-Initiated Nitroxide-Mediated Polymerization (CI-NMP). <i>Australian Journal of Chemistry</i> , 2018, 71, 334.	0.5	17
87	Leveled Steric Effect in Alkoxyamines of SG1-Type. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 973-978.	1.1	16
88	Long-range polar and steric effects in propionate-SG1-type alkoxyamines (SG1-CHMeCOOX): a multiparameter analysis. <i>Journal of Physical Organic Chemistry</i> , 2006, 19, 269-275.	0.9	16
89	Arylsulfanyl radical lifetime in nanostructured silica: dramatic effect of the organic monolayer structure. <i>Chemical Science</i> , 2014, 5, 4716-4723.	3.7	16
90	Triptyl-based alkoxyamines as NMP controllers and spin-labels. <i>Polymer Chemistry</i> , 2016, 7, 6490-6499.	1.9	16

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91	Smart Alkoxyamines: A New Tool for Smart Applications. <i>Accounts of Chemical Research</i> , 2020, 53, 2828-2840.	7.6	16
92	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
93	Reconciliation of pH, conductivity, total organic carbon with carboxylic acids detected by ion chromatography in solution after contact with multilayer films after I^3 -irradiation. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 117, 216-226.	1.9	15
94	Selective and efficient fluorination of chlorodiazines under solvent-free phase transfer catalysis. <i>Journal of Fluorine Chemistry</i> , 2004, 125, 1847-1851.	0.9	14
95	Crowded Phosphonylated Alkoxyamines with Low Dissociation Temperatures: A Milestone in Nitroxide-Mediated Polymerization. <i>ACS Symposium Series</i> , 2006, , 326-341.	0.5	14
96	C=O bond homolysis in alkoxyamines. Part 12: the effect of the para-substituent in the 1-phenylethyl fragment. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 3574-3583.	1.5	14
97	C=O bond homolysis of alkoxyamines: when too high polarity is detrimental. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6167-6176.	1.5	14
98	A DFT study of the hydrogen atom abstraction from 2,4,6-trimethylheptane: A model of peroxidic degradation for syndio polypropylene. <i>Computational and Theoretical Chemistry</i> , 2007, 811, 255-266.	1.5	13
99	Chemically Triggered C=O Bond Homolysis of Alkoxyamines. 8. Quaternization and Steric Effects. <i>Journal of Organic Chemistry</i> , 2013, 78, 9914-9920.	1.7	13
100	Diversification of EPR signatures in site directed spin labeling using a I^2 -phosphorylated nitroxide. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4202.	1.3	13
101	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
102	Enzymatic triggering of C=O bond homolysis of alkoxyamines. <i>Organic Chemistry Frontiers</i> , 2019, 6, 3663-3672.	2.3	13
103	Synthesis, X-ray Geometry, and Anodic Behavior of Tris[2-(hydroxymethyl)phenyl]phosphane. <i>The Journal of Physical Chemistry</i> , 1996, 100, 4323-4330.	2.9	12
104	Calculated linear free energy relationships in the course of the Suzuki-Miyaura coupling reaction. <i>Tetrahedron</i> , 2014, 70, 2272-2279.	1.0	12
105	Monitoring of the discoloration on I^3 -irradiated PE and EVA films to evaluate antioxidant stability. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46114.	1.3	12
106	Establishing plasmon contribution to chemical reactions: alkoxyamines as a thermal probe. <i>Chemical Science</i> , 2021, 12, 4154-4161.	3.7	12
107	Electron Paramagnetic Resonance Spin Trapping of Glutathyl Radicals by PBN in the Presence of Cyclodextrins and by PBN Attached to I^2 -Cyclodextrin. <i>Journal of Physical Chemistry B</i> , 2008, 112, 13157-13162.	1.2	11
108	Diastereomeric Effect on the Homolysis of the C=O Bond in Alkoxyamines: A DFT Investigation of 1,3-Diphenylbutyl-TEMPO. <i>Polymers</i> , 2010, 2, 353-363.	2.0	11

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109	Solvent Effect in ^{12}C -Phosphorylated Nitroxides: Model Nitroxides. <i>Applied Magnetic Resonance</i> , 2015, 46, 1333-1342.	0.6	11
110	Impact of ^{13}C -irradiation, ageing and their interactions on multilayer films followed by AComDim. <i>Analytica Chimica Acta</i> , 2017, 981, 11-23.	2.6	11
111	Evaluation of multilayer film stability by Raman spectroscopy after gamma-irradiation sterilization process. <i>Vibrational Spectroscopy</i> , 2018, 96, 52-59.	1.2	11
112	Generation of O_2 -Permeation Barrier during the Gamma-Irradiation of Polyethylene/Ethylene-Vinyl Alcohol/Polyethylene Multilayer Film. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 14115-14123.	1.8	11
113	Beyond common analytical limits of radicals detection using the functional SERS substrates. <i>Sensors and Actuators B: Chemical</i> , 2019, 300, 127015.	4.0	11
114	Design of a Targeting and Oxygen-Independent Platform to Improve Photodynamic Therapy: A Proof of Concept. <i>ACS Applied Bio Materials</i> , 2021, 4, 1330-1339.	2.3	11
115	Role of the alkyl fragment of initiating alkoxyamine in nitroxide mediated polymerization of styrene. <i>Polymer Science - Series B</i> , 2010, 52, 327-338.	0.3	10
116	Hyperfine Coupling Constants of ^{12}C -Phosphorylated Nitroxides: A Tool to Probe the Cybotactic Effect by Electron Paramagnetic Resonance. <i>ChemPhysChem</i> , 2012, 13, 3542-3548.	1.0	10
117	Structural Equilibrium in New Nitroxide-Capped Cyclodextrins: CW and Pulse EPR Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8223-8231.	1.2	10
118	$\text{C}=\text{O}$ Bond Homolysis of Alkoxyamines, Part 11: Activation of the Nitroxyl Fragment. <i>Journal of Organic Chemistry</i> , 2016, 81, 1981-1988.	1.7	10
119	Enthalpy of Combustion on n -Alkanes. Quantum Chemical Calculations up to $\text{C}_{60}\text{H}_{122}$ and Power Law Distributions. <i>ChemistrySelect</i> , 2018, 3, 9113-9120.	0.7	10
120	An elastase activity reporter for Electronic Paramagnetic Resonance (EPR) and Overhauser-enhanced Magnetic Resonance Imaging (OMRI) as a line-shifting nitroxide. <i>Free Radical Biology and Medicine</i> , 2018, 126, 101-112.	1.3	10
121	Chemical modifications of imidazole-containing alkoxyamines increase $\text{C}=\text{O}$ bond homolysis rate: Effects on their cytotoxic properties in glioblastoma cells. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 1942-1951.	1.4	10
122	An enzymatic acetal/hemiacetal conversion for the physiological temperature activation of the alkoxyamine $\text{C}=\text{O}$ bond homolysis. <i>Organic Chemistry Frontiers</i> , 2020, 7, 2916-2924.	2.3	10
123	Influence of Gamma Irradiation on Electric Cables Models: Study of Additive Effects by Mid-Infrared Spectroscopy. <i>Polymers</i> , 2021, 13, 1451.	2.0	10
124	EPR, NMR, and Thermodynamic Evidences for Forced Nuclear Spin-Electron Spin Interactions in the Case of 1-Phenyl-2-Methylpropyl-1,1-Dimethyl-2-Nitroxide (TIPNO) Attached to Permethylated ^{12}C -Cyclodextrin. <i>Applied Magnetic Resonance</i> , 2009, 36, 181-194.	0.6	9
125	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
126	Chemically triggered $\text{C}=\text{O}$ bond homolysis in alkoxyamines: regioselectivity and chemoselectivity. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 7738.	1.5	9

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127	Hydrogenâ€Bonding Effects for the Câ€ON Bond Homolysis and Reformation Reactions of Alkoxyamines. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 475-488.	1.1	9
128	Design of Wall-Functionalized Hybrid Silicas Containing Diazene Radical Precursors. EPR Investigation of Their Photolysis and Thermolysis. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5434-5439.	1.5	9
129	Products and mechanisms of the heterogeneous reactions of ozone with commonly used pyrethroids in the atmosphere. <i>Science of the Total Environment</i> , 2016, 573, 1287-1293.	3.9	9
130	Selective On/Offâ€Nitroxides as Radical Probes to Investigate Nonâ€radical Enzymatic Activity by Electron Paramagnetic Resonance. <i>Chemistry - A European Journal</i> , 2018, 24, 7615-7619.	1.7	9
131	Alkoxyamines Designed as Potential Drugs against Plasmodium and Schistosoma Parasites. <i>Molecules</i> , 2020, 25, 3838.	1.7	9
132	Effect of gamma irradiation on the oxygen barrier properties in ethylâ€vinyl acetate/ethyleneâ€vinyl alcohol/ethylâ€vinyl acetate multilayer film. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49361.	1.3	9
133	Chapter 2. Kinetic Aspects of Nitroxide Mediated Polymerization. <i>RSC Polymer Chemistry Series</i> , 2015, , 45-113.	0.1	9
134	One-year ageing FTIR monitoring of PE/EVOH/PE film after gamma or electron beam irradiation. <i>Polymer Degradation and Stability</i> , 2022, 195, 109790.	2.7	9
135	Is Experimental Evidence Sufficient Enough To Account for the Stabilization Effect of Bisnitroxide on the Fate of NMP Experiments?. <i>Macromolecules</i> , 2009, 42, 1404-1406.	2.2	8
136	Time-Resolved and Pulse EPR Study of Triplet States of Alkylketones in Î²-Cyclodextrin. <i>Applied Magnetic Resonance</i> , 2012, 42, 29-40.	0.6	8
137	Identification of chemical species created during Î³-irradiation of antioxidant used in polyethylene and polyethyleneâ€vinyl acetate multilayer film. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49336.	1.3	8
138	Effects of Fe ²⁺ /Fe ³⁺ Binding to Human Frataxin and Its D122Y Variant, as Revealed by Site-Directed Spin Labeling (SDSL) EPR Complemented by Fluorescence and Circular Dichroism Spectroscopies. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9619.	1.8	8
139	Effects of X-ray, electron beam and gamma irradiation on PE/EVOH/PE multilayer film properties. <i>Chemical Communications</i> , 2021, 57, 11049-11051.	2.2	8
140	Nitroxides in hostâ€guest chemistry: 2010â€2016. <i>Electron Paramagnetic Resonance</i> , 2016, , 180-235.	0.2	8
141	Direct functionalization of labile alkoxyamines. <i>Tetrahedron Letters</i> , 2012, 53, 4543-4547.	0.7	7
142	Intramolecular proton transfer (IPT) in alkoxyamine: a theoretical investigation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13862.	1.3	7
143	Radical polymerization of radicalâ€labeled monomers: The triarylmethylâ€based radical monomer as an example. <i>Journal of Polymer Science Part A</i> , 2018, 56, 2656-2664.	2.5	7
144	Î²-Fragmentation of alkoxy radicals: Natural bond orbital analysis. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 676-685.	1.0	6

#	ARTICLE	IF	CITATIONS
145	Chemically triggered C=O bond homolysis in alkoxyamines. Part 7. Remote polar effect. Journal of Physical Organic Chemistry, 2014, 27, 387-391.	0.9	6
146	Mass spectrometry of nitroxide-terminated poly(4-vinylpyridine): A case of unwanted reactive MALDI. International Journal of Mass Spectrometry, 2016, 405, 50-58.	0.7	6
147	Solvent effect in \hat{P} -phosphorylated nitroxides. Part 4: detection of traces of water by electron paramagnetic resonance. Organic and Biomolecular Chemistry, 2016, 14, 1288-1292.	1.5	6
148	The \hat{P} -phosphorus hyperfine coupling constant in nitroxides: 6. Solvent effects in non-cyclic nitroxides. Organic and Biomolecular Chemistry, 2016, 14, 3729-3743.	1.5	6
149	Normal, Leveled, and Enhanced Steric Effects in Alkoxyamines Carrying a \hat{P} -Phosphorylated Nitroxyl Fragment. Journal of Organic Chemistry, 2017, 82, 5702-5709.	1.7	6
150	The effect of the oxophilic Tb(III) cation on C ON bond homolysis in alkoxyamines. Inorganic Chemistry Communication, 2018, 91, 5-7.	1.8	6
151	How intramolecular coordination bonding (ICB) controls the homolysis of the C=O bond in alkoxyamines. RSC Advances, 2019, 9, 25776-25789.	1.7	6
152	Power Law Distribution Concerning Absolute Free Energies of Linear Sulfur Chains, Polythiazyls, Polyisoprenes, Linear <i>trans</i> -Polyenes, and Polynes. Journal of Physical Chemistry A, 2019, 123, 1380-1388.	1.1	6
153	Shifting-Nitroxides to Investigate Enzymatic Hydrolysis of Fatty Acids by Lipases Using Electron Paramagnetic Resonance in Turbid Media. Analytical Chemistry, 2019, 91, 5504-5507.	3.2	6
154	Homolysis/mesolysis of alkoxyamines activated by chemical oxidation and photochemical-triggered radical reactions at room temperature. Organic Chemistry Frontiers, 2021, 8, 6561-6576.	2.3	6
155	Effects of X-Rays, Electron Beam, and Gamma Irradiation on Chemical and Physical Properties of EVA Multilayer Films. Frontiers in Chemistry, 2022, 10, .	1.8	6
156	Intramolecular Hydrogen Bond Reverting the Solvent Effect on Phosphorus Hyperfine Coupling Constants of \hat{P} -Phosphorylated Nitroxides. ChemPhysChem, 2016, 17, 3954-3963.	1.0	5
157	\hat{P} -Phosphorus hyperfine coupling constant in nitroxides: 5. Solvent effect. RSC Advances, 2016, 6, 5653-5670.	1.7	5
158	Hyperfine coupling constants of \hat{P} -phosphorylated nitroxides: Subtle interplay between steric strain, hyperconjugation, and dipole-dipole interactions. Tetrahedron, 2017, 73, 3188-3201.	1.0	5
159	Magnetic Resonance Imaging of Protease-Mediated Lung Tissue Inflammation and Injury. ACS Omega, 2021, 6, 15012-15016.	1.6	5
160	Kinetic investigation of thermal and photoinduced homolysis of alkylated verdazyls. Physical Chemistry Chemical Physics, 2020, 22, 21881-21887.	1.3	5
161	Persilylated Phosphoranyl Radicals: The First Persistent Noncyclic Phosphoranyl Radicals. Chemistry - A European Journal, 2006, 12, 7084-7094.	1.7	4
162	The \hat{P} -phosphorus hyperfine coupling constant in nitroxide: part 3: titration of water by electron paramagnetic resonance. Organic and Biomolecular Chemistry, 2015, 13, 11393-11400.	1.5	4

#	ARTICLE	IF	CITATIONS
163	Probing the dynamic properties of two sites simultaneously in a protein-protein interaction process: a SDSL-EPR study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22584-22588.	1.3	4
164	Mapping the scientific research on the gamma irradiated polymers degradation (1975-2018). <i>Radiation Physics and Chemistry</i> , 2020, 168, 108577.	1.4	4
165	Monitoring of Peroxide in Gamma Irradiated EVA Multilayer Film Using Methionine Probe. <i>Polymers</i> , 2020, 12, 3024.	2.0	4
166	Neutrophil Elastase-Activatable Prodrugs Based on an Alkoxyamine Platform to Deliver Alkyl Radicals Cytotoxic to Tumor Cells. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 9253-9266.	2.9	4
167	³¹ P NMR measurement of the homolysis rate constant of the C-ON bond of ¹ 2-phosphorylated alkoxyamines. <i>E-Polymers</i> , 2003, 3, .	1.3	3
168	Absolute Rate Constants for the Addition of the 1-(tert-Butoxy)carbonyl ethyl Radical onto Cyclic Alkenes in Solution. <i>Helvetica Chimica Acta</i> , 2006, 89, 2327-2329.	1.0	3
169	¹ 2-Fragmentation of Tertiary Alkoxy Radicals: G3(MP2)-RAD and Natural Bond Orbital Investigations. <i>ChemPhysChem</i> , 2012, 13, 703-707.	1.0	3
170	Theoretical modelling of the epoxidation of vinylallenes to give cyclopentenones. <i>Tetrahedron Letters</i> , 2013, 54, 6607-6610.	0.7	3
171	Energetics of the biosynthesis of cyclopentenones from unsaturated fatty acids. <i>Tetrahedron</i> , 2014, 70, 8606-8613.	1.0	3
172	Revised Structure, Total Synthesis, and Absolute Configuration of Kopeolin and Kopeolone. <i>Journal of Organic Chemistry</i> , 2014, 79, 2268-2273.	1.7	3
173	Computational Studies on Intramolecular Cycloadditions of Azidoenynes and Azidobutenenitriles to Give 6-H-Pyrrolo[1,2-c][1,2,3]triazoles and 5-H-Pyrrolo[1,2-d]tetrazoles. <i>Helvetica Chimica Acta</i> , 2015, 98, 1018-1027.	1.0	3
174	Theoretical investigations on the conversions of cyclic polysulfides to acyclic polysulfide diradicals and subsequent reactions of biological interest. <i>Tetrahedron</i> , 2017, 73, 3492-3496.	1.0	3
175	Investigations at the Product, Macromolecular, and Molecular Level of the Physical and Chemical Properties of a ¹³ -Irradiated Multilayer EVA/EVOH/EVA Film: Comprehensive Analysis and Mechanistic Insights. <i>Polymers</i> , 2021, 13, 2671.	2.0	3
176	A Combined Spectroscopic and In Silico Approach to Evaluate the Interaction of Human Frataxin with Mitochondrial Superoxide Dismutase. <i>Biomedicines</i> , 2021, 9, 1763.	1.4	3
177	Imidazoline-N-Oxyl: A DFT Study of Its Protonation Reaction. <i>ChemPhysChem</i> , 2009, 10, 2419-2428.	1.0	2
178	Studies of the dehydrodimerization of 2-butanone and 3-pentanone by lead dioxide. <i>Tetrahedron Letters</i> , 2016, 57, 5703-5706.	0.7	2
179	Dual-initiator alkoxyamines with an N-tert-butyl-N-(1-diethylphosphono-2,2-dimethylpropyl) nitroxide moiety for preparation of block co-polymers. <i>RSC Advances</i> , 2017, 7, 4993-5001.	1.7	2
180	¹ 2-Phosphorus Hyperfine Coupling Constant in Nitroxides: Conformational Effects in 6-Membered Ring Nitroxides. <i>Applied Magnetic Resonance</i> , 2017, 48, 379-406.	0.6	2

#	ARTICLE	IF	CITATIONS
181	Enzymatic activity monitoring through Dynamic Nuclear Polarization in Earth magnetic field. <i>Journal of Magnetic Resonance</i> , 2021, 333, 107095.	1.2	2
182	Addition and corrections published 31st October 2013 to 10th July 2014. <i>Chemical Communications</i> , 2014, 50, 9595.	2.2	1
183	Energetics of the biosynthesis of prostanes from arachidonate. <i>Tetrahedron</i> , 2015, 71, 6920-6927.	1.0	1
184	Computational and mechanistic studies of the acylation of cyclopropanes. <i>Tetrahedron Letters</i> , 2016, 57, 1743-1749.	0.7	1
185	Homooligopeptides. Variations of the calculated absolute free energies G/n in function of the number n of amino acids. <i>Computational and Theoretical Chemistry</i> , 2020, 1191, 113012.	1.1	1
186	NMR and EPR Study of Homolysis of Diastereomeric Alkoxyamines. <i>Molecules</i> , 2020, 25, 5080.	1.7	1
187	Study of the mechanical behavior of gamma-irradiated single-use bag seals. <i>Food Packaging and Shelf Life</i> , 2020, 26, 100582.	3.3	1
188	Mapping the scientific research on the ionizing radiation impacts on polymers (1975â€“2019). <i>E-Polymers</i> , 2021, 21, 770-778.	1.3	1
189	Théorie cinétique de l'équilibre chimique. <i>Comptes Rendus Chimie</i> , 2020, 23, 445-503.	0.2	1
190	Monitoring of peroxide in gamma irradiated PE/EVOH/PE multilayer film using methionine probe. <i>Food and Bioproducts Processing</i> , 2022, 132, 226-232.	1.8	1
191	Alkylverdazyls as a Source of Alkyl Radicals for Light-Triggered Cancer Cell Death. <i>Molecular Pharmaceutics</i> , 2022, 19, 354-357.	2.3	1
192	Evolution of the partition coefficients of peroxide initiators during the synthesis of high-impact polystyrene. <i>E-Polymers</i> , 2004, 4, .	1.3	0
193	Influence of the Nitroxide Structure on the Homolysis Rate Constant of Alkoxyamines: A Taftâ€“Ingold Analysis.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
194	Alkoxyamine-Mediated Radical Synthesis of Indolinones and Indolines.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
195	Selective and Efficient Fluorination of Chlorodiazines under Solvent-Free Phase Transfer Catalysis.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
196	Part 10: chemically triggered alkoxyamine C=ON bond homolysis in ionic liquid solvents. <i>RSC Advances</i> , 2015, 5, 76660-76665.	1.7	0
197	The chemical thermodynamics and diamagnetism of n-alkanes. Calculations up to n-C110H222 from quantum chemical computations and experimental values. <i>Computational and Theoretical Chemistry</i> , 2022, 1215, 113770.	1.1	0