

# Renaud Nicolaÿ

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

4,694  
citations

257450

24  
h-index

477307

29  
g-index

31  
all docs

31  
docs citations

31  
times ranked

3275  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance vitrimers from commodity thermoplastics through dioxaborolane metathesis. <i>Science</i> , 2017, 356, 62-65.	12.6	901
2	Vinylogous Urethane Vitrimers. <i>Advanced Functional Materials</i> , 2015, 25, 2451-2457.	14.9	763
3	Self-Healing Polymer Films Based on Thiol-Disulfide Exchange Reactions and Self-Healing Kinetics Measured Using Atomic Force Microscopy. <i>Macromolecules</i> , 2012, 45, 142-149.	4.8	407
4	Vitrimers: Permanently crosslinked polymers with dynamic network topology. <i>Progress in Polymer Science</i> , 2020, 104, 101233.	24.7	379
5	Chemical control of the viscoelastic properties of vinylogous urethane vitrimers. <i>Nature Communications</i> , 2017, 8, 14857.	12.8	365
6	Role of Cu <sup>0</sup> in Controlled/Living Radical Polymerization. <i>Macromolecules</i> , 2007, 40, 7795-7806.	4.8	268
7	Responsive Gels Based on a Dynamic Covalent Trithiocarbonate Cross-Linker. <i>Macromolecules</i> , 2010, 43, 4355-4361.	4.8	204
8	Fluorinated Vitrimer Elastomers with a Dual Temperature Response. <i>Journal of the American Chemical Society</i> , 2018, 140, 13272-13284.	13.7	181
9	Polybutadiene Vitrimers Based on Dioxaborolane Chemistry and Dual Networks with Static and Dynamic Cross-links. <i>Macromolecules</i> , 2019, 52, 7102-7113.	4.8	139
10	Polydimethylsiloxane quenchable vitrimers. <i>Polymer Chemistry</i> , 2017, 8, 6590-6593.	3.9	136
11	Transformation of polyethylene into a vitrimer by nitroxide radical coupling of a bis-dioxaborolane. <i>Polymer Chemistry</i> , 2019, 10, 3107-3115.	3.9	98
12	A Green Route to Well-Defined High-Molecular-Weight (Co)polymers Using ARGET ATRP with Alkyl Pseudohalides and Copper Catalysis. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 541-544.	13.8	94
13	How Far Can We Push Polymer Architectures?. <i>Journal of the American Chemical Society</i> , 2013, 135, 11421-11424.	13.7	89
14	Concurrent ATRP/RAFT of Styrene and Methyl Methacrylate with Dithioesters Catalyzed by Copper(I) Complexes. <i>Macromolecules</i> , 2008, 41, 6602-6604.	4.8	84
15	Synthesis of poly(vinyl acetate) block copolymers by successive RAFT and ATRP with a bromoxanthate iniferter. <i>Chemical Communications</i> , 2008, , 5336.	4.1	80
16	The balance between intramolecular hydrogen bonding, polymer solubility and rigidity in single-chain polymeric nanoparticles. <i>Polymer Chemistry</i> , 2013, 4, 2584.	3.9	71
17	Dually Crosslinked Polymer Networks Incorporating Dynamic Covalent Bonds. <i>Polymers</i> , 2021, 13, 396.	4.5	61
18	Synergistic Interaction Between ATRP and RAFT: Taking the Best of Each World. <i>Australian Journal of Chemistry</i> , 2009, 62, 1384.	0.9	54

#	ARTICLE	IF	CITATIONS
19	Polythiol copolymers with precise architectures: a platform for functional materials. <i>Polymer Chemistry</i> , 2014, 5, 4601.	3.9	54
20	Synthesis of Well-Defined Polythiol Copolymers by RAFT Polymerization. <i>Macromolecules</i> , 2012, 45, 821-827.	4.8	53
21	Evaluation of thiocarbonyl and thioester moieties as thiol protecting groups for controlled radical polymerization. <i>Polymer Chemistry</i> , 2013, 4, 5577.	3.9	41
22	A Simple and Efficient Synthesis of RAFT Chain Transfer Agents via Atom Transfer Radical Addition-Fragmentation. <i>Macromolecules</i> , 2009, 42, 3738-3742.	4.8	39
23	Synthesis of Polyethylene Vitrimers in a Single Step: Consequences of Graft Structure, Reactive Extrusion Conditions, and Processing Aids. <i>Macromolecules</i> , 2021, 54, 2213-2225.	4.8	37
24	One-pot deprotection and functionalization of polythiol copolymers via six different thiol-X reactions. <i>Polymer International</i> , 2014, 63, 887-893.	3.1	25
25	Functionalization of polyisoprene and polystyrene via reactive processing using azidoformate grafting agents, and its application to the synthesis of dioxaborolane-based polyisoprene vitrimers. <i>Polymer Chemistry</i> , 2020, 11, 6479-6491.	3.9	20
26	ATRP with Alkyl Pseudohalides Acting as Initiators and Chain Transfer Agents: When ATRP and RAFT Polymerization Become One. <i>Israel Journal of Chemistry</i> , 2012, 52, 288-305.	2.3	19
27	Efficient Polymerization Inhibition Systems for Acrylic Acid Distillation: New Liquid-Phase Inhibitors. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 3910-3915.	3.7	16
28	Synthesis of molecular brushes by telomerization. <i>Polymer Chemistry</i> , 2017, 8, 5220-5227.	3.9	7
29	Synthesis and self-assembly of amphiphilic heterografted molecular brushes prepared by telomerization. <i>European Polymer Journal</i> , 2020, 141, 110080.	5.4	6
30	Associative and Thermoresponsive Aqueous Polymer Formulations Based on Imine Chemistry. <i>ACS Applied Polymer Materials</i> , 0, , .	4.4	2