

Jorge F J Coelho

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Biobased polyesters and other polymers from 2,5-furandicarboxylic acid: a tribute to furan excellency. <i>Polymer Chemistry</i> , 2015, 6, 5961-5983.	3.9	531
2	The quest for sustainable polyesters – insights into the future. <i>Polymer Chemistry</i> , 2014, 5, 3119-3141.	3.9	438
3	Oral films: Current status and future perspectives. <i>Journal of Controlled Release</i> , 2015, 206, 1-19.	9.9	223
4	Recent Developments in Antimicrobial Polymers: A Review. <i>Materials</i> , 2016, 9, 599.	2.9	153
5	Non-transition metal-catalyzed living radical polymerization of vinyl chloride initiated with iodoform in water at 25 °C. <i>Journal of Polymer Science Part A</i> , 2004, 42, 6267-6282.	2.3	112
6	Inorganic Sulfites: Efficient Reducing Agents and Supplemental Activators for Atom Transfer Radical Polymerization. <i>ACS Macro Letters</i> , 2012, 1, 1308-1311.	4.8	95
7	A New Generation of Furanic Copolyesters with Enhanced Degradability: Poly(ethylene Terephthalate)- <i>Journal of Polymer Science Part A: Polymer Physics</i> , 2014, 215, 2175-2184.	2.2	92
8	Near infrared light-triggered nanoparticles using singlet oxygen photocleavage for drug delivery systems. <i>Journal of Controlled Release</i> , 2019, 294, 337-354.	9.9	77
9	Deep Eutectic Solvent Aqueous Solutions as Efficient Media for the Solubilization of Hardwood Xylans. <i>ChemSusChem</i> , 2018, 11, 753-762.	6.8	75
10	Ambient temperature rapid SARA ATRP of acrylates and methacrylates in alcohol/water solutions mediated by a mixed sulfite/Cu(ii)Br ₂ catalytic system. <i>Polymer Chemistry</i> , 2013, 4, 5629.	3.9	70
11	Synthesis of well-defined poly(2-(dimethylamino)ethyl methacrylate) under mild conditions and its co-polymers with cholesterol and PEG using Fe(0)/Cu(ii) based SARA ATRP. <i>Polymer Chemistry</i> , 2013, 4, 3088.	3.9	67
12	Poly(β -amino ester)-based gene delivery systems: From discovery to therapeutic applications. <i>Journal of Controlled Release</i> , 2019, 310, 155-187.	9.9	66
13	Cinnamic acid derivatives as promising building blocks for advanced polymers: synthesis, properties and applications. <i>Polymer Chemistry</i> , 2019, 10, 1696-1723.	3.9	66
14	Copper-Mediated Controlled/Living Radical Polymerization in Polar Solvents: Insights into Some Relevant Mechanistic Aspects. <i>Chemistry - A European Journal</i> , 2012, 18, 4607-4612.	3.3	64
15	Synthesis of poly(vinyl chloride)- <i>b</i> -poly(<i>n</i> -butyl acrylate)- <i>b</i> -poly(vinyl chloride) by the competitive single-electron-transfer/degenerative-chain-transfer-mediated living radical polymerization in water. <i>Journal of Polymer Science Part A</i> , 2006, 44, 3001-3008.	2.3	63
16	Reversible Addition-Fragmentation Chain Transfer Polymerization of Vinyl Chloride. <i>Macromolecules</i> , 2012, 45, 2200-2208.	4.8	61
17	Oral films: Current status and future perspectives II – Intellectual property, technologies and market needs. <i>Journal of Controlled Release</i> , 2015, 206, 108-121.	9.9	55
18	Polyacrylonitrile- <i>b</i> -poly(butyl acrylate) Block Copolymers as Precursors to Mesoporous Nitrogen-Doped Carbons: Synthesis and Nanostructure. <i>Macromolecules</i> , 2017, 50, 2759-2767.	4.8	53

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19	Single electron transfer-degenerative chain transfer living radical polymerization of N-butyl acrylate catalyzed by Na ₂ S ₂ O ₄ in water media. <i>Journal of Polymer Science Part A</i> , 2006, 44, 2809-2825.	2.3	51
20	Brief Overview on Bio-Based Adhesives and Sealants. <i>Polymers</i> , 2019, 11, 1685.	4.5	49
21	Mucoadhesive oral films: The potential for unmet needs. <i>International Journal of Pharmaceutics</i> , 2015, 494, 537-551.	5.2	48
22	Novel flexible, hybrid aerogels with vinyl- and methyltrimethoxysilane in the underlying silica structure. <i>Journal of Materials Science</i> , 2016, 51, 6781-6792.	3.7	48
23	Aqueous SARA ATRP using inorganic sulfites. <i>Polymer Chemistry</i> , 2017, 8, 375-387.	3.9	45
24	Recent advances in smart biotechnology: Hydrogels and nanocarriers for tailored bioactive molecules depot. <i>Advances in Colloid and Interface Science</i> , 2017, 249, 163-180.	14.7	44
25	Untethered Disposable Health Monitoring Electronic Patches with an Integrated Ag ₂ O-Zn Battery, a AgInGa Current Collector, and Hydrogel Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3407-3414.	8.0	43
26	High Resolution Soft and Stretchable Circuits with PVA/Liquid-Metal Mediated Printing. <i>Advanced Materials Technologies</i> , 2020, 5, 2000343.	5.8	42
27	Single electron transfer-degenerative chain transfer mediated living radical polymerization (SET-DTLRP) of vinyl chloride initiated with methylene iodide and catalyzed by sodium dithionite. <i>Journal of Polymer Science Part A</i> , 2005, 43, 773-778.	2.3	41
28	Synthesis of cationic poly((3-acrylamidopropyl)trimethylammonium chloride) by SARA ATRP in ecofriendly solvent mixtures. <i>Polymer Chemistry</i> , 2014, 5, 5829-5836.	3.9	41
29	Synthesis of Poly(lauryl acrylate) by Single-Electron Transfer/Degenerative Chain Transfer Living Radical Polymerization Catalyzed by Na ₂ S ₂ O ₄ in Water. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 1218-1227.	2.2	40
30	The influence of poly(ester amide) on the structural and functional features of 3D additive manufactured poly(μ -caprolactone) scaffolds. <i>Materials Science and Engineering C</i> , 2019, 98, 994-1004.	7.3	40
31	Phase transfer catalyzed single electron transfer-degenerative chain transfer mediated living radical polymerization (PTC-SET-DTLRP) of vinyl chloride catalyzed by sodium dithionite and initiated with iodoform in water at 43 °C. <i>Journal of Polymer Science Part A</i> , 2005, 43, 779-788.	2.3	39
32	Accelerated synthesis of poly(methyl methacrylate)-b-poly(vinyl chloride)-b-poly(methyl methacrylate) block copolymers by the CuCl/tris(2-dimethylaminoethyl)amine-catalyzed living radical block copolymerization of methyl methacrylate initiated with α , ω -di(iodo)poly(vinyl chloride) in dimethyl sulfoxide at 90 °C. <i>Journal of Polymer Science Part A</i> , 2005, 43, 1649-1659.	2.3	39
33	Straightforward ARGET ATRP for the Synthesis of Primary Amine Polymethacrylate with Improved Chain-End Functionality under Mild Reaction Conditions. <i>Macromolecules</i> , 2014, 47, 4615-4621.	4.8	39
34	Influence of the isomeric structures of butyl acrylate on its single-electron transfer-degenerative chain transfer living radical polymerization in water Catalyzed by Na ₂ S ₂ O ₄ . <i>Journal of Polymer Science Part A</i> , 2008, 46, 6542-6551.	2.3	38
35	Increasing the Antimicrobial Activity of Amphiphilic Cationic Copolymers by the Facile Synthesis of High Molecular Weight Stars by Supplemental Activator and Reducing Agent Atom Transfer Radical Polymerization. <i>Biomacromolecules</i> , 2019, 20, 1146-1156.	5.4	38
36	Sulfolane: an Efficient and Universal Solvent for Copper-Mediated Atom Transfer Radical (co)Polymerization of Acrylates, Methacrylates, Styrene, and Vinyl Chloride. <i>ACS Macro Letters</i> , 2014, 3, 858-861.	4.8	37

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37	Synthesis of well-defined functionalized poly(2-(diisopropylamino)ethyl methacrylate) using ATRP with sodium dithionite as a SARA agent. <i>Polymer Chemistry</i> , 2014, 5, 3919-3928.	3.9	36
38	Accelerated Ambient-Temperature ATRP of Methyl Acrylate in Alcohol-Water Solutions with a Mixed Transition-Metal Catalyst System. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 1677-1687.	2.2	34
39	Nitroxide-Mediated Polymerization of Vinyl Chloride at Low Temperature: Kinetic and Computational Studies. <i>Macromolecules</i> , 2016, 49, 490-498.	4.8	34
40	Use of recycled polypropylene/poly(ethylene terephthalate) blends to manufacture water pipes: An industrial scale study. <i>Waste Management</i> , 2020, 101, 250-258.	7.4	34
41	Getting faster: low temperature copper-mediated SARA ATRP of methacrylates, acrylates, styrene and vinyl chloride in polar media using sulfolane/water mixtures. <i>RSC Advances</i> , 2016, 6, 9598-9603.	3.6	33
42	Outlining critical quality attributes (CQAs) as guidance for the development of orodispersible films. <i>Pharmaceutical Development and Technology</i> , 2017, 22, 237-245.	2.4	31
43	Thiourea Dioxide As a Green and Affordable Reducing Agent for the ARGET ATRP of Acrylates, Methacrylates, Styrene, Acrylonitrile, and Vinyl Chloride. <i>ACS Macro Letters</i> , 2019, 8, 315-319.	4.8	31
44	Improvement of the control over SARA ATRP of 2-(diisopropylamino)ethyl methacrylate by slow and continuous addition of sodium dithionite. <i>Polymer Chemistry</i> , 2014, 5, 4617-4626.	3.9	30
45	High transfection efficiency promoted by tailor-made cationic tri-block copolymer-based nanoparticles. <i>Acta Biomaterialia</i> , 2017, 47, 113-123.	8.3	29
46	Synthesis of poly(2-methoxyethyl acrylate) by single electron transfer-Degenerative transfer living radical polymerization catalyzed by Na ₂ S ₂ O ₄ in water. <i>Journal of Polymer Science Part A</i> , 2009, 47, 4454-4463.	2.3	28
47	Ambient Temperature Transition-Metal-Free Dissociative Electron Transfer Reversible Addition-Fragmentation Chain Transfer Polymerization (DET-RAFT) of Methacrylates, Acrylates, and Styrene. <i>Macromolecules</i> , 2016, 49, 1597-1604.	4.8	28
48	Facile Synthesis of Well-Defined Telechelic Alkyne-Terminated Polystyrene in Polar Media Using ATRP With Mixed Fe/Cu Transition Metal Catalyst. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 76-84.	2.2	27
49	Cyclopentyl methyl ether: A new green co-solvent for supplemental activator and reducing agent atom transfer radical polymerization. <i>Journal of Polymer Science Part A</i> , 2015, 53, 2722-2729.	2.3	27
50	Synthesis of poly(ethyl acrylate) by single electron transfer-degenerative chain transfer living radical polymerization in water catalyzed by Na ₂ S ₂ O ₄ . <i>Journal of Polymer Science Part A</i> , 2008, 46, 421-432.	2.3	26
51	Synergistic Effect of 1-Butyl-3-methylimidazolium Hexafluorophosphate and DMSO in the SARA ATRP at Room Temperature Affording Very Fast Reactions and Polymers with Very Low Dispersity. <i>ACS Macro Letters</i> , 2014, 3, 544-547.	4.8	26
52	Mechanism of supplemental activator and reducing agent atom transfer radical polymerization mediated by inorganic sulfites: experimental measurements and kinetic simulations. <i>Polymer Chemistry</i> , 2017, 8, 6506-6519.	3.9	25
53	Replacing Di(2-ethylhexyl) Terephthalate by Di(2-ethylhexyl) 2,5-Furandicarboxylate for PVC Plasticization: Synthesis, Materials Preparation and Characterization. <i>Materials</i> , 2019, 12, 2336.	2.9	25
54	Ambient Temperature Flash-SARA ATRP of Methyl Acrylate in Water/Ionic Liquid/Glycol Mixtures. <i>Macromolecules</i> , 2015, 48, 6810-6815.	4.8	24

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55	Synthesis of functionalized poly(vinyl acetate) mediated by alkyne-terminated RAFT agents. <i>RSC Advances</i> , 2015, 5, 91225-91234.	3.6	23
56	The impact of a designed lactic acid-based crosslinker in the thermochemical properties of unsaturated polyester resins/nanoprecipitated calcium carbonate composites. <i>Journal of Materials Science</i> , 2017, 52, 1272-1284.	3.7	23
57	Synthesis of well-defined alkyne terminated poly(N-vinyl caprolactam) with stringent control over the LCST by RAFT. <i>RSC Advances</i> , 2016, 6, 16996-17007.	3.6	22
58	Surface functionalization of cuttlefish bone-derived biphasic calcium phosphate scaffolds with polymeric coatings. <i>Materials Science and Engineering C</i> , 2019, 105, 110014.	7.3	22
59	Cyclopentyl methyl ether as a green solvent for reversible-addition fragmentation chain transfer and nitroxide-mediated polymerizations. <i>RSC Advances</i> , 2016, 6, 7495-7503.	3.6	21
60	Combination of Poly[(2-dimethylamino)ethyl methacrylate] and Poly(β -amino ester) Results in a Strong and Synergistic Transfection Activity. <i>Biomacromolecules</i> , 2017, 18, 3331-3342.	5.4	21
61	Amphiphilic well-defined degradable star block copolymers by combination of ring-opening polymerization and atom transfer radical polymerization: Synthesis and application as drug delivery carriers. <i>Journal of Polymer Science</i> , 2021, 59, 211-229.	3.8	21
62	Retrospective Quality by Design (rQbD) applied to the optimization of orodispersible films. <i>International Journal of Pharmaceutics</i> , 2017, 528, 655-663.	5.2	19
63	Pushing the limits of robust and eco-friendly ATRP processes: untreated water as the solvent. <i>Polymer Chemistry</i> , 2019, 10, 938-944.	3.9	18
64	Synthesis of high glass transition temperature copolymers based on poly(vinyl chloride) via single electron transfer-Degenerative chain transfer mediated living radical polymerization (SET-DTLRP) of vinyl chloride in water. <i>Journal of Polymer Science Part A</i> , 2009, 47, 7021-7031.	2.3	17
65	Novel Cationic Triblock Copolymer of Poly[2-(dimethylamino)ethyl methacrylate]- <i>block</i> -poly(β -amino ester)- <i>block</i> -poly[2-(dimethylamino)ethyl methacrylate]: A Promising Non-Viral Gene Delivery System. <i>Macromolecular Bioscience</i> , 2015, 15, 215-228.	4.1	17
66	Eutectic mixtures as a green alternative for efficient catalyst recycling in atom transfer radical polymerizations. <i>Journal of Polymer Science Part A</i> , 2017, 55, 371-381.	2.3	17
67	Poly(ethylene glycol)- <i>block</i> -poly(2-aminoethyl methacrylate hydrochloride)-Based Polyplexes as Serum-Tolerant Nanosystems for Enhanced Gene Delivery. <i>Molecular Pharmaceutics</i> , 2019, 16, 2129-2141.	4.6	16
68	Liquid salts as eco-friendly solvents for atom transfer radical polymerization: a review. <i>Polymer Chemistry</i> , 2019, 10, 4904-4913.	3.9	15
69	Light-Activated Antimicrobial Surfaces Using Industrial Varnish Formulations to Mitigate the Incidence of Nosocomial Infections. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7567-7579.	8.0	15
70	Thermal characterization of poly(vinyl chloride) samples prepared by living radical polymerization: Comparison with poly(vinyl chloride) prepared by free radical polymerization. <i>Journal of Applied Polymer Science</i> , 2008, 109, 2729-2736.	2.6	14
71	Poly(ester amide)s based on (L)-lactic acid oligomers and β -amino acids: influence of the β -amino acid side chain in the poly(ester amide)s properties. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013, 24, 1391-1409.	3.5	14
72	Ambient temperature SARAATRP for meth(acrylates), styrene, and vinyl chloride using sulfolane/1-butyl-3-methylimidazolium hexafluorophosphate-based mixtures. <i>Journal of Polymer Science Part A</i> , 2017, 55, 1322-1328.	2.3	14

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73	Effect of in Vitro Enzymatic Degradation on 3D Printed Poly(μ -Caprolactone) Scaffolds: Morphological, Chemical and Mechanical Properties. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2017, 15, 185-195.	1.6	14
74	Synthesis of tailor-made bile acid sequestrants by supplemental activator and reducing agent atom transfer radical polymerization. <i>RSC Advances</i> , 2016, 6, 52143-52153.	3.6	13
75	Development of electrospun mats based on hydrophobic hydroxypropyl cellulose derivatives. <i>Materials Science and Engineering C</i> , 2021, 131, 112498.	7.3	13
76	Polymerization of Vinyl Chloride at Ambient Temperature Using Macromolecular Design via the Interchange of Xanthate: Kinetic and Computational Studies. <i>Macromolecules</i> , 2020, 53, 190-202.	4.8	12
77	Room temperature aqueous self-assembly of poly(ethylene glycol)-poly(4-vinyl pyridine) block copolymers: From spherical to worm-like micelles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 447-453.	5.0	11
78	Under pressure: electrochemically-mediated atom transfer radical polymerization of vinyl chloride. <i>Polymer Chemistry</i> , 2020, 11, 6745-6762.	3.9	11
79	Preparation of well-defined brush-like block copolymers for gene delivery applications under biorelevant reaction conditions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 169, 107-117.	5.0	9
80	Guanidine as inexpensive dual function ligand and reducing agent for ATRP of methacrylates. <i>Polymer Chemistry</i> , 2019, 10, 4944-4953.	3.9	9
81	Highly Porous Composite Scaffolds Endowed with Antibacterial Activity for Multifunctional Grafts in Bone Repair. <i>Polymers</i> , 2021, 13, 4378.	4.5	9
82	Poly(ester amide)s based on L-lactic acid oligomers and glycine: the role of the central unit of the L-lactic acid oligomers and their molecular weight in the poly(ester amide)s properties. <i>Polymer Bulletin</i> , 2014, 71, 3085-3109.	3.3	8
83	Novel nanoaggregates with peripheric superparamagnetic iron oxide nanoparticles and organic cores through self-assembly of tailor-made block copolymers. <i>RSC Advances</i> , 2014, 4, 24428-24432.	3.6	8
84	Facile synthesis of well-controlled poly(glycidyl methacrylate) and its block copolymers via SARA ATRP at room temperature. <i>Polymer Chemistry</i> , 2015, 6, 1875-1882.	3.9	8
85	Self-degassing SARA ATRP mediated by $\text{Na}_2\text{S}_2\text{O}_4$ with no external additives. <i>Journal of Polymer Science</i> , 2020, 58, 145-153.	3.8	8
86	Development of red-light cleavable PEG-PLA nanoparticles as delivery systems for cancer therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111354.	5.0	8
87	Homogeneous polymerization of hydrophobic monomers in a bio-based dl-menthol/1-tetradecanol eutectic mixture by ATRP and RAFT polymerization. <i>Green Chemistry</i> , 2020, 22, 6827-6835.	9.0	8
88	Development of light-degradable poly(urethane-urea) hydrogel films. <i>Materials Science and Engineering C</i> , 2021, 131, 112520.	7.3	8
89	Addressing the role of triphenylphosphine in copper catalyzed ATRP. <i>Polymer Chemistry</i> , 2018, 9, 5348-5358.	3.9	7
90	Deviation from the theoretical predictions in the synthesis of amphiphilic block copolymers in a wide range of compositions based on poly(vinyl chloride) by single electron transfer: Degenerative chain living radical polymerization in suspension medium. <i>Journal of Applied Polymer Science</i> , 2013, 127, 3407-3417.	2.6	6

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91	Hydrophobic polymers for orodispersible films: a quality by design approach. Expert Opinion on Drug Delivery, 2016, 13, 1357-1374.	5.0	6
92	Increasing the Bile Acid Sequestration Performance of Cationic Hydrogels by Using an Advanced/Controlled Polymerization Technique. Pharmaceutical Research, 2017, 34, 1934-1943.	3.5	6
93	Dual electrochemical and chemical control in atom transfer radical polymerization with copper electrodes. Chemical Science, 2022, 13, 6008-6018.	7.4	6
94	Reversible Deactivation Radical Polymerization of Vinyl Chloride. ACS Symposium Series, 2018, , 227-261.	0.5	4
95	Catalytic Halogen Exchange in Supplementary Activator and Reducing Agent Atom Transfer Radical Polymerization for the Synthesis of Block Copolymers. Macromolecular Rapid Communications, 2021, 42, e2000532.	3.9	3
96	The influence of using sodium dithionite as SARA agent in miniemulsion ATRP. Journal of Polymer Science Part A, 2018, 56, 879-888.	2.3	2
97	Self-degassing SARA ATRP mediated by Na ₂ S ₂ O ₄ with no external additives. Journal of Polymer Science, 2020, 58, 145-153.	3.8	0
98	Application of vinyl polymer-based materials as nucleic acids carriers in cancer therapy. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 0, , .	6.1	0