Javier Read de Alaniz

List of Publications by Year in Descending Order

110 papers	6,205 citations	40 h-index	77 g-index
122 ext. papers	7,163 ext. citations	8.1 avg, IF	6.13 L-index

#	Paper	IF	Citations
110	Role of Electron-Deficient Imidazoles in Ion Transport and Conductivity in Solid-State Polymer Electrolytes. *Macromolecules*, **2022**, 55, 971-977	5.5	1
109	Role of Material Composition in Photothermal Actuation of DASA-Based Polymers. *ACS Applied Polymer Materials*, **2022**, 4, 141-149	4.3	3
108	Amide Moieties Modulate the Antimicrobial Activities of Conjugated Oligoelectrolytes against Gram-negative Bacteria.. *ChemistryOpen*, **2022**, 11, e202100260	2.3	2
107	Controlling the Isomerization of Photoresponsive Molecules through a Limiting Tautomerization Strategy.. *Journal of Physical Chemistry B*, **2022**,	3.4	1
106	Donor□Acceptor Stenhouse Adducts **2022**, 303-324		
105	Promoting the Furan Ring-Opening Reaction to Access New Donor-Acceptor Stenhouse Adducts with Hexafluoroisopropanol. *Angewandte Chemie - International Edition*, **2021**, 60, 10219-10227	16.4	12
104	Promoting the Furan Ring-Opening Reaction to Access New Donor□Acceptor Stenhouse Adducts with Hexafluoroisopropanol. *Angewandte Chemie*, **2021**, 133, 10307-10315	3.6	0
103	Chemical and Mechanical Tunability of 3D-Printed Dynamic Covalent Networks Based on Boronate Esters.. *ACS Macro Letters*, **2021**, 10, 857-863	6.6	10
102	Light-Mediated Synthesis and Reprocessing of Dynamic Bottlebrush Elastomers under Ambient Conditions. *Journal of the American Chemical Society*, **2021**, 143, 9866-9871	16.4	18
101	Interconvertible Living Radical and Cationic Polymerization using a Dual Photoelectrochemical Catalyst. *Journal of the American Chemical Society*, **2021**, 143, 12278-12285	16.4	4
100	Shining Light on Cyclopentadienone-Norbornadiene Diels-Alder Adducts to Enable Photoinduced Click Chemistry with Cyclopentadiene. *ACS Applied Materials & Interfaces*, **2021**, 13, 35422-35430	9.5	2
99	Donor-Acceptor Stenhouse Adducts: Exploring the Effects of Ionic Character. *Chemistry - A European Journal*, **2021**, 27, 4183-4190	4.8	14
98	Glass Transition Temperature and Ion Binding Determine Conductivity and Lithium-Ion Transport in Polymer Electrolytes.. *ACS Macro Letters*, **2021**, 10, 104-109	6.6	13
97	The role of anions in light-driven conductivity in diarylethene-containing polymeric ionic liquids. *Polymer Chemistry*, **2021**, 12, 719-724	4.9	1
96	Light-Switchable and Self-Healable Polymer Electrolytes Based on Dynamic Diarylethene and Metal-Ion Coordination. *Journal of the American Chemical Society*, **2021**, 143, 1562-1569	16.4	11
95	Redox-Active Polymeric Ionic Liquids with Pendant N-Substituted Phenothiazine. *ACS Applied Materials & Interfaces*, **2021**, 13, 5319-5326	9.5	1
94	Influence of Polarity Change and Photophysical Effects on Photosurfactant-Driven Wetting. *Langmuir*, **2021**, 37, 9939-9951	4	4

93	Norbornadiene Chain-End Functional Polymers as Stable, Readily Available Precursors to Cyclopentadiene Derivatives. *Macromolecules*, **2020**, 53, 4917-4924	5.5	8
92	Reversible Actuation via Photoisomerization-Induced Melting of a Semicrystalline Poly(Azobenzene). *ACS Macro Letters*, **2020**, 9, 902-909	6.6	21
91	Dynamic Bottlebrush Polymer Networks: Self-Healing in Super-Soft Materials. *Journal of the American Chemical Society*, **2020**, 142, 7567-7573	16.4	56
90	Electrospun colourimetric sensors for detecting volatile amines. *Sensors and Actuators B: Chemical*, **2020**, 322, 128570	8.5	10
89	Self-regulating photochemical Rayleigh-Bénard convection using a highly-absorbing organic photoswitch. *Nature Communications*, **2020**, 11, 2599	17.4	13
88	Light-Controllable Ionic Conductivity in a Polymeric Ionic Liquid. *Angewandte Chemie*, **2020**, 132, 5161-5166	3.6	1
87	Light-Controllable Ionic Conductivity in a Polymeric Ionic Liquid. *Angewandte Chemie - International Edition*, **2020**, 59, 5123-5128	16.4	27
86	Polymer Stereocomplexation as a Scalable Platform for Nanoparticle Assembly. *Journal of the American Chemical Society*, **2020**, 142, 1667-1672	16.4	22
85	Tunable Photothermal Actuation Enabled by Photoswitching of Donor-Acceptor Stenhouse Adducts. *ACS Applied Materials & Interfaces*, **2020**,	9.5	12
84	A new family of liquid and solid guanidine-based n-type dopants for solution-processed perovskite solar cells. *Materials Chemistry Frontiers*, **2020**, 4, 3616-3622	7.8	2
83	Sulfur-fused perylene diimide electron transport layers allow >400 h operational lifetime of methylammonium lead iodide photovoltaics. *Journal of Materials Chemistry C*, **2019**, 7, 11126-11133	7.1	6
82	Stable Activated Furan and Donor–Acceptor Stenhouse Adduct Polymer Conjugates as Chemical and Thermal Sensors. *Macromolecules*, **2019**, 52, 4370-4375	5.5	29
81	A Diene-Containing Noncanonical Amino Acid Enables Dual Functionality in Proteins: Rapid Diels–Alder Reaction with Maleimide or Proximity-Based Dimerization. *Angewandte Chemie*, **2019**, 131, 8577	3.6	
80	Aqueous reverse iodine transfer polymerization of acrylic acid. *Journal of Polymer Science Part A*, **2019**, 57, 1877-1881	2.5	3
79	A Diene-Containing Noncanonical Amino Acid Enables Dual Functionality in Proteins: Rapid Diels-Alder Reaction with Maleimide or Proximity-Based Dimerization. *Angewandte Chemie - International Edition*, **2019**, 58, 8489-8493	16.4	13
78	Multi-Sulfur-Annulated Fused Perylene Diimides for Organic Solar Cells with Low Open-Circuit Voltage Loss. *ACS Applied Energy Materials*, **2019**, 2, 3805-3814	6.1	22
77	Unusual concentration dependence of the photoisomerization reaction in donor-acceptor Stenhouse adducts. *Photochemical and Photobiological Sciences*, **2019**, 18, 1587-1595	4.2	24
76	Norbornadienes: Robust and Scalable Building Blocks for Cascade "Click" Coupling of High Molecular Weight Polymers. *Journal of the American Chemical Society*, **2019**, 141, 13619-13624	16.4	24

75	A Reactive Antibody Platform for One-Step Production of Antibody-Drug Conjugates through a Diels-Alder Reaction with Maleimide. *Bioconjugate Chemistry*, **2019**, 30, 2340-2348	6.3	8
74	Multi-stimuli responsive trigger for temporally controlled depolymerization of self-immolative polymers. *Polymer Chemistry*, **2019**, 10, 4914-4919	4.9	10
73	Photoinduced Deadhesion of a Polymer Film Using a Photochromic Donor–Acceptor Stenhouse Adduct. *Macromolecules*, **2019**, 52, 6311-6317	5.5	18
72	Enantioselective PCCP Brønsted acid-catalyzed aza-Piancatelli rearrangement. *Beilstein Journal of Organic Chemistry*, **2019**, 15, 1569-1574	2.5	10
71	Multiaddressable Photochromic Architectures: From Molecules to Materials. *Advanced Optical Materials*, **2019**, 7, 1900224	8.1	51
70	Tuning Merocyanine Photoacid Structure to Enhance Solubility and Temporal Control: Application in Ring Opening Polymerization. *ChemPhotoChem*, **2019**, 3, 467-472	3.3	19
69	What happens in the dark? Assessing the temporal control of photo-mediated controlled radical polymerizations. *Journal of Polymer Science Part A*, **2019**, 57, 268-273	2.5	61
68	Endo and Exo Diels-Alder Adducts: Temperature-Tunable Building Blocks for Selective Chemical Functionalization. *Journal of the American Chemical Society*, **2018**, 140, 5009-5013	16.4	45
67	Tuning the Diels-Alder Reaction for Bioconjugation to Maleimide Drug-Linkers. *Bioconjugate Chemistry*, **2018**, 29, 2406-2414	6.3	34
66	Brønsted-Acid-Catalyzed Exchange in Polyester Dynamic Covalent Networks. *ACS Macro Letters*, **2018**, 7, 817-821	6.6	75
65	Controlling Dark Equilibria and Enhancing Donor-Acceptor Stenhouse Adduct Photoswitching Properties through Carbon Acid Design. *Journal of the American Chemical Society*, **2018**, 140, 10425-10429	16.4	76
64	Simultaneous Preparation of Multiple Polymer Brushes under Ambient Conditions using Microliter Volumes. *Angewandte Chemie*, **2018**, 130, 13621-13626	3.6	11
63	Evolution and Future Directions of Metal-Free Atom Transfer Radical Polymerization. *Macromolecules*, **2018**, 51, 7421-7434	5.5	133
62	Direct introduction of nitrogen and oxygen functionality with spatial control using copper catalysis. *Chemical Science*, **2018**, 9, 8748-8752	9.4	7
61	Simultaneous Preparation of Multiple Polymer Brushes under Ambient Conditions using Microliter Volumes. *Angewandte Chemie - International Edition*, **2018**, 57, 13433-13438	16.4	50
60	Wavelength-Selective Light-Responsive DASA-Functionalized Polymersome Nanoreactors. *Journal of the American Chemical Society*, **2018**, 140, 8027-8036	16.4	96
59	Dual-pathway chain-end modification of RAFT polymers using visible light and metal-free conditions. *Chemical Communications*, **2017**, 53, 1888-1891	5.8	34
58	A Versatile and Highly Selective Colorimetric Sensor for the Detection of Amines. *Chemistry - A European Journal*, **2017**, 23, 3562-3566	4.8	71

57	A Versatile Approach for In Situ Monitoring of Photoswitches and Photopolymerizations. *ChemPhotoChem*, **2017**, 1, 125-131	3.3	32
56	Light-Mediated Atom Transfer Radical Polymerization of Semi-Fluorinated (Meth)acrylates: Facile Access to Functional Materials. *Journal of the American Chemical Society*, **2017**, 139, 5939-5945	16.4	88
55	Controlled radical polymerization of vinyl ketones using visible light. *Polymer Chemistry*, **2017**, 8, 3351-3356	4.9	37
54	Visible Light-Responsive DASA-Polymer Conjugates. *ACS Macro Letters*, **2017**, 6, 738-742	6.6	44
53	Established and emerging strategies for polymer chain-end modification. *Journal of Polymer Science Part A*, **2017**, 55, 2903-2914	2.5	62
52	Desulfurization-bromination: direct chain-end modification of RAFT polymers. *Polymer Chemistry*, **2017**, 8, 7188-7194	4.9	11
51	Nitrosocarbonyl hetero-Diels–Alder cycloaddition with 2-substituted 1,3-butadienes. *Tetrahedron*, **2017**, 73, 4045-4051	2.4	5
50	Chemoselective Radical Dehalogenation and C-C Bond Formation on Aryl Halide Substrates Using Organic Photoredox Catalysts. *Journal of Organic Chemistry*, **2016**, 81, 7155-60	4.2	85
49	Determination of methylene bridge crosslinking in chloromethylated PS-DVB resins. *Journal of Polymer Science Part A*, **2016**, 54, 1955-1960	2.5	3
48	Direct synthesis of anilines and nitrosobenzenes from phenols. *Organic and Biomolecular Chemistry*, **2016**, 14, 5520-4	3.9	17
47	Simple Benchtop Approach to Polymer Brush Nanostructures Using Visible-Light-Mediated Metal-Free Atom Transfer Radical Polymerization. *ACS Macro Letters*, **2016**, 5, 258-262	6.6	165
46	Triazine-mediated controlled radical polymerization: new unimolecular initiators. *Polymer Chemistry* , **2016**, 7, 370-374	4.9	30
45	A temperature-mapping molecular sensor for polyurethane-based elastomers. *Applied Physics Letters*, **2016**, 108, 041906	3.4	44
44	Synthesis of Hindered Anilines: Three-Component Coupling of Arylboronic Acids, tert-Butyl Nitrite, and Alkyl Bromides. *Organic Letters*, **2016**, 18, 5074-5077	6.2	17
43	Tunable Visible and Near Infrared Photoswitches. *Journal of the American Chemical Society*, **2016**, 138, 13960-13966	16.4	151
42	Controlled drug release to cancer cells from modular one-photon visible light-responsive micellar system. *Chemical Communications*, **2016**, 52, 10525-8	5.8	92
41	Optical characterization and confocal fluorescence imaging of mechanochromic acrylate polymers. *Journal of Applied Physics*, **2015**, 117, 043103	2.5	3
40	A highly reducing metal-free photoredox catalyst: design and application in radical dehalogenations. *Chemical Communications*, **2015**, 51, 11705-8	5.8	184

39	Tandem Reaction Progress Analysis as a Means for Dissecting Catalytic Reactions: Application to the Aza-Piancatelli Rearrangement. *ACS Catalysis*, **2015**, 5, 4579-4585	13.1	32
38	Cascade rearrangement of furylcarbinols with hydroxylamines: practical access to densely functionalized cyclopentane derivatives. *Organic and Biomolecular Chemistry*, **2015**, 13, 8465-9	3.9	25
37	Synthesis of Hindered α-Amino Carbonyls: Copper-Catalyzed Radical Addition with Nitroso Compounds. *Journal of the American Chemical Society*, **2015**, 137, 11614-7	16.4	54
36	Asymmetric Electrophilic α-Amination of Silyl Enol Ether Derivatives via the Nitrosocarbonyl Hetero-ene Reaction. *Organic Letters*, **2015**, 17, 4514-7	6.2	20
35	The Nazarov Cyclization: A Valuable Method to Synthesize Fully Substituted Carbon Stereocenters. *European Journal of Organic Chemistry*, **2015**, 2015, 23-37	3.2	115
34	Accessing nitrosocarbonyl compounds with temporal and spatial control via the photoredox oxidation of N-substituted hydroxylamines. *Tetrahedron Letters*, **2015**, 56, 3353-3357	2	23
33	Efficient synthesis of 4-hydroxycyclopentenones: dysprosium(III) triflate catalyzed Piancatelli rearrangement. *Tetrahedron*, **2014**, 70, 4105-4110	2.4	28
32	Photoswitching using visible light: a new class of organic photochromic molecules. *Journal of the American Chemical Society*, **2014**, 136, 8169-72	16.4	288
31	Design and synthesis of donor-acceptor Stenhouse adducts: a visible light photoswitch derived from furfural. *Journal of Organic Chemistry*, **2014**, 79, 11316-29	4.2	142
30	Metal-free atom transfer radical polymerization. *Journal of the American Chemical Society*, **2014**, 136, 16096-101	16.4	637
29	Nitrosocarbonyl Hetero-Diels-Alder Cycloaddition: A New Tool for Conjugation.. *ACS Macro Letters*, **2014**, 3, 753-757	6.6	29
28	Controlled Radical Polymerization of Acrylates Regulated by Visible Light.. *ACS Macro Letters*, **2014**, 3, 580-584	6.6	218
27	Developments in Nitrosocarbonyl Chemistry: Mild Oxidation of N-Substituted Hydroxylamines Leads to New Discoveries. *Synthesis*, **2014**, 46, 269-280	2.9	28
26	High strain-rate response of spiropyran mechanophores in PMMA. *Journal of Polymer Science, Part B: Polymer Physics*, **2014**, 52, 1347-1356	2.6	31
25	Electrophilic α-oxygenation reaction of β-ketoesters using N-hydroxycarbamates: control of the ambident reactivity of nitrosoformate intermediates. *Chemical Science*, **2013**, 4, 3857	9.4	39
24	Correction to Copper-Catalyzed Aerobic Oxidation of Hydroxamic Acids Leads to a Mild and Versatile Acylnitroso Ene Reaction *Journal of the American Chemical Society*, **2013**, 135, 15963-15963	16.4	3
23	Importance of off-cycle species in the acid-catalyzed aza-Piancatelli rearrangement. *Journal of Organic Chemistry*, **2013**, 78, 12784-9	4.2	32
22	Rapid Synthesis of Fused Oxabicycles through the Molecular Rearrangement of Spirocyclic Ethers. *European Journal of Organic Chemistry*, **2013**, 2013, 6237-6240	3.2	11

21	Rapid and stereoselective synthesis of spirocyclic ethers via the intramolecular Piancatelli rearrangement. *Organic Letters*, **2013**, 15, 476-9	6.2	68
20	Aza-Piancatelli rearrangement initiated by ring opening of donor-acceptor cyclopropanes. *Organic Letters*, **2013**, 15, 3250-3	6.2	55
19	Lewis Acid Catalyzed Rearrangement of Furylcarbinols: The Aza- and Oxa-Piancatelli Cascade Reaction. *Synlett*, **2013**, 25, 08-11	2.2	5
18	Dysprosium(III) catalysis in organic synthesis. *Tetrahedron*, **2012**, 68, 2015-2026	2.4	25
17	Electrophilic □-amination reaction of □ketoesters using N-hydroxycarbamates: merging aerobic oxidation and Lewis acid catalysis. *Journal of the American Chemical Society*, **2012**, 134, 18948-51	16.4	64
16	Copper-catalyzed aerobic oxidation of N-substituted hydroxylamines: efficient and practical access to nitroso compounds. *Organic Letters*, **2012**, 14, 3620-3	6.2	53
15	Copper-catalyzed aerobic oxidation of hydroxamic acids leads to a mild and versatile acylnitroso ene reaction. *Journal of the American Chemical Society*, **2011**, 133, 10430-3	16.4	83
14	Direct and Highly Diastereoselective Synthesis of Azaspirocycles by a Dysprosium(III) Triflate Catalyzed Aza-Piancatelli Rearrangement. *Angewandte Chemie*, **2011**, 123, 7305-7308	3.6	26
13	Direct and highly diastereoselective synthesis of azaspirocycles by a dysprosium(III) triflate catalyzed aza-Piancatelli rearrangement. *Angewandte Chemie - International Edition*, **2011**, 50, 7167-70	16.4	107
12	Mechanistic investigation of the enantioselective intramolecular stetter reaction: proton transfer is the first irreversible step. *Organic Letters*, **2011**, 13, 1742-5	6.2	81
11	Total synthesis of (+)-nankakurines A and B and (–)-5-epi-nankakurine A. *Journal of Organic Chemistry*, **2010**, 75, 7519-34	4.2	59
10	Versatile method for the synthesis of 4-aminocyclopentenones: dysprosium(III) triflate catalyzed aza-piancatelli rearrangement. *Angewandte Chemie - International Edition*, **2010**, 49, 9484-7	16.4	121
9	Enantioselective total syntheses of nankakurines A and B: confirmation of structure and establishment of absolute configuration. *Journal of the American Chemical Society*, **2008**, 130, 11297-9	16.4	49
8	Scope of the asymmetric intramolecular stetter reaction catalyzed by chiral nucleophilic triazolinylidene carbenes. *Journal of Organic Chemistry*, **2008**, 73, 2033-40	4.2	131
7	An efficient synthesis of achiral and chiral 1,2,4-triazolium salts: bench stable precursors for N-heterocyclic carbenes. *Journal of Organic Chemistry*, **2005**, 70, 5725-8	4.2	240
6	A highly enantio- and diastereoselective catalytic intramolecular Stetter reaction. *Journal of the American Chemical Society*, **2005**, 127, 6284-9	16.4	224
5	Conversion of alpha-haloaldehydes into acylating agents by an internal redox reaction catalyzed by nucleophilic carbenes. *Journal of the American Chemical Society*, **2004**, 126, 9518-9	16.4	344
4	A highly enantioselective catalytic intramolecular Stetter reaction. *Journal of the American Chemical Society*, **2002**, 124, 10298-9	16.4	407

3	Vinylalumination of fluoro-carbonyl compounds. *Tetrahedron Letters*, **1998**, 39, 8791-8794	2	26
2	Preparation of Cyclopent-2-enone Derivatives via the Aza-Piancatelli Rearrangement46-59		
1	Digital Light Processing of Dynamic Bottlebrush Materials. *Advanced Functional Materials*,2200883	15.6	3