

Javier Read de Alaniz

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Metal-free atom transfer radical polymerization. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16096-101	16.4	637
109	A highly enantioselective catalytic intramolecular Stetter reaction. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10298-9	16.4	407
108	Conversion of alpha-haloaldehydes into acylating agents by an internal redox reaction catalyzed by nucleophilic carbenes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9518-9	16.4	344
107	Photoswitching using visible light: a new class of organic photochromic molecules. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8169-72	16.4	288
106	An efficient synthesis of achiral and chiral 1,2,4-triazolium salts: bench stable precursors for N-heterocyclic carbenes. <i>Journal of Organic Chemistry</i> , 2005 , 70, 5725-8	4.2	240
105	A highly enantio- and diastereoselective catalytic intramolecular Stetter reaction. <i>Journal of the American Chemical Society</i> , 2005 , 127, 6284-9	16.4	224
104	Controlled Radical Polymerization of Acrylates Regulated by Visible Light.. <i>ACS Macro Letters</i> , 2014 , 3, 580-584	6.6	218
103	A highly reducing metal-free photoredox catalyst: design and application in radical dehalogenations. <i>Chemical Communications</i> , 2015 , 51, 11705-8	5.8	184
102	Simple Benchtop Approach to Polymer Brush Nanostructures Using Visible-Light-Mediated Metal-Free Atom Transfer Radical Polymerization. <i>ACS Macro Letters</i> , 2016 , 5, 258-262	6.6	165
101	Tunable Visible and Near Infrared Photoswitches. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13960-13966	16.4	151
100	Design and synthesis of donor-acceptor Stenhouse adducts: a visible light photoswitch derived from furfural. <i>Journal of Organic Chemistry</i> , 2014 , 79, 11316-29	4.2	142
99	Evolution and Future Directions of Metal-Free Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2018 , 51, 7421-7434	5.5	133
98	Scope of the asymmetric intramolecular stetter reaction catalyzed by chiral nucleophilic triazolinyldiene carbenes. <i>Journal of Organic Chemistry</i> , 2008 , 73, 2033-40	4.2	131
97	Versatile method for the synthesis of 4-aminocyclopentenones: dysprosium(III) triflate catalyzed aza-piancatelli rearrangement. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9484-7	16.4	121
96	The Nazarov Cyclization: A Valuable Method to Synthesize Fully Substituted Carbon Stereocenters. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 23-37	3.2	115
95	Direct and highly diastereoselective synthesis of azaspirocycles by a dysprosium(III) triflate catalyzed aza-Piancatelli rearrangement. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7167-70	16.4	107
94	Wavelength-Selective Light-Responsive DASA-Functionalized Polymersome Nanoreactors. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8027-8036	16.4	96

93	Controlled drug release to cancer cells from modular one-photon visible light-responsive micellar system. <i>Chemical Communications</i> , 2016 , 52, 10525-8	5.8	92
92	Light-Mediated Atom Transfer Radical Polymerization of Semi-Fluorinated (Meth)acrylates: Facile Access to Functional Materials. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5939-5945	16.4	88
91	Chemoselective Radical Dehalogenation and C-C Bond Formation on Aryl Halide Substrates Using Organic Photoredox Catalysts. <i>Journal of Organic Chemistry</i> , 2016 , 81, 7155-60	4.2	85
90	Copper-catalyzed aerobic oxidation of hydroxamic acids leads to a mild and versatile acylnitrosone reaction. <i>Journal of the American Chemical Society</i> , 2011 , 133, 10430-3	16.4	83
89	Mechanistic investigation of the enantioselective intramolecular Stetter reaction: proton transfer is the first irreversible step. <i>Organic Letters</i> , 2011 , 13, 1742-5	6.2	81
88	Controlling Dark Equilibria and Enhancing Donor-Acceptor Stenhouse Adduct Photoswitching Properties through Carbon Acid Design. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10425-10429	16.4	76
87	Bronsted-Acid-Catalyzed Exchange in Polyester Dynamic Covalent Networks. <i>ACS Macro Letters</i> , 2018 , 7, 817-821	6.6	75
86	A Versatile and Highly Selective Colorimetric Sensor for the Detection of Amines. <i>Chemistry - A European Journal</i> , 2017 , 23, 3562-3566	4.8	71
85	Rapid and stereoselective synthesis of spirocyclic ethers via the intramolecular Piancatelli rearrangement. <i>Organic Letters</i> , 2013 , 15, 476-9	6.2	68
84	Electrophilic α -amination reaction of β -ketoesters using N-hydroxycarbamates: merging aerobic oxidation and Lewis acid catalysis. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18948-51	16.4	64
83	Established and emerging strategies for polymer chain-end modification. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 2903-2914	2.5	62
82	What happens in the dark? Assessing the temporal control of photo-mediated controlled radical polymerizations. <i>Journal of Polymer Science Part A</i> , 2019 , 57, 268-273	2.5	61
81	Total synthesis of (+)-nankakurines A and B and (-)-5-epi-nankakurine A. <i>Journal of Organic Chemistry</i> , 2010 , 75, 7519-34	4.2	59
80	Dynamic Bottlebrush Polymer Networks: Self-Healing in Super-Soft Materials. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7567-7573	16.4	56
79	Aza-Piancatelli rearrangement initiated by ring opening of donor-acceptor cyclopropanes. <i>Organic Letters</i> , 2013 , 15, 3250-3	6.2	55
78	Synthesis of Hindered α -Amino Carbonyls: Copper-Catalyzed Radical Addition with Nitroso Compounds. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11614-7	16.4	54
77	Copper-catalyzed aerobic oxidation of N-substituted hydroxylamines: efficient and practical access to nitroso compounds. <i>Organic Letters</i> , 2012 , 14, 3620-3	6.2	53
76	Multiaddressable Photochromic Architectures: From Molecules to Materials. <i>Advanced Optical Materials</i> , 2019 , 7, 1900224	8.1	51

75	Simultaneous Preparation of Multiple Polymer Brushes under Ambient Conditions using Microliter Volumes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13433-13438	16.4	50
74	Enantioselective total syntheses of nankakurines A and B: confirmation of structure and establishment of absolute configuration. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11297-9	16.4	49
73	Endo and Exo Diels-Alder Adducts: Temperature-Tunable Building Blocks for Selective Chemical Functionalization. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5009-5013	16.4	45
72	Visible Light-Responsive DASA-Polymer Conjugates. <i>ACS Macro Letters</i> , 2017 , 6, 738-742	6.6	44
71	A temperature-mapping molecular sensor for polyurethane-based elastomers. <i>Applied Physics Letters</i> , 2016 , 108, 041906	3.4	44
70	Electrophilic α -oxygenation reaction of β -ketoesters using N-hydroxycarbamates: control of the ambient reactivity of nitrosoformate intermediates. <i>Chemical Science</i> , 2013 , 4, 3857	9.4	39
69	Controlled radical polymerization of vinyl ketones using visible light. <i>Polymer Chemistry</i> , 2017 , 8, 3351-3356	4.9	37
68	Dual-pathway chain-end modification of RAFT polymers using visible light and metal-free conditions. <i>Chemical Communications</i> , 2017 , 53, 1888-1891	5.8	34
67	Tuning the Diels-Alder Reaction for Bioconjugation to Maleimide Drug-Linkers. <i>Bioconjugate Chemistry</i> , 2018 , 29, 2406-2414	6.3	34
66	A Versatile Approach for In Situ Monitoring of Photoswitches and Photopolymerizations. <i>ChemPhotoChem</i> , 2017 , 1, 125-131	3.3	32
65	Tandem Reaction Progress Analysis as a Means for Dissecting Catalytic Reactions: Application to the Aza-Piancatelli Rearrangement. <i>ACS Catalysis</i> , 2015 , 5, 4579-4585	13.1	32
64	Importance of off-cycle species in the acid-catalyzed aza-Piancatelli rearrangement. <i>Journal of Organic Chemistry</i> , 2013 , 78, 12784-9	4.2	32
63	High strain-rate response of spiropyran mechanophores in PMMA. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014 , 52, 1347-1356	2.6	31
62	Triazine-mediated controlled radical polymerization: new unimolecular initiators. <i>Polymer Chemistry</i> , 2016 , 7, 370-374	4.9	30
61	Stable Activated Furan and Donor-Acceptor Stenhouse Adduct Polymer Conjugates as Chemical and Thermal Sensors. <i>Macromolecules</i> , 2019 , 52, 4370-4375	5.5	29
60	Nitrosocarbonyl Hetero-Diels-Alder Cycloaddition: A New Tool for Conjugation.. <i>ACS Macro Letters</i> , 2014 , 3, 753-757	6.6	29
59	Efficient synthesis of 4-hydroxycyclopentenones: dysprosium(III) triflate catalyzed Piancatelli rearrangement. <i>Tetrahedron</i> , 2014 , 70, 4105-4110	2.4	28
58	Developments in Nitrosocarbonyl Chemistry: Mild Oxidation of N-Substituted Hydroxylamines Leads to New Discoveries. <i>Synthesis</i> , 2014 , 46, 269-280	2.9	28

57	Light-Controllable Ionic Conductivity in a Polymeric Ionic Liquid. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5123-5128	16.4	27
56	Direct and Highly Diastereoselective Synthesis of Azaspirocycles by a Dysprosium(III) Triflate Catalyzed Aza-Piancatelli Rearrangement. <i>Angewandte Chemie</i> , 2011 , 123, 7305-7308	3.6	26
55	Vinylaluminum of fluoro-carbonyl compounds. <i>Tetrahedron Letters</i> , 1998 , 39, 8791-8794	2	26
54	Cascade rearrangement of furylcarbinols with hydroxylamines: practical access to densely functionalized cyclopentane derivatives. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 8465-9	3.9	25
53	Dysprosium(III) catalysis in organic synthesis. <i>Tetrahedron</i> , 2012 , 68, 2015-2026	2.4	25
52	Unusual concentration dependence of the photoisomerization reaction in donor-acceptor Stenhouse adducts. <i>Photochemical and Photobiological Sciences</i> , 2019 , 18, 1587-1595	4.2	24
51	Norbornadienes: Robust and Scalable Building Blocks for Cascade "Click" Coupling of High Molecular Weight Polymers. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13619-13624	16.4	24
50	Accessing nitrosocarbonyl compounds with temporal and spatial control via the photoredox oxidation of N-substituted hydroxylamines. <i>Tetrahedron Letters</i> , 2015 , 56, 3353-3357	2	23
49	Multi-Sulfur-Annulated Fused Perylene Diimides for Organic Solar Cells with Low Open-Circuit Voltage Loss. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3805-3814	6.1	22
48	Polymer Stereocomplexation as a Scalable Platform for Nanoparticle Assembly. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1667-1672	16.4	22
47	Reversible Actuation via Photoisomerization-Induced Melting of a Semicrystalline Poly(Azobenzene). <i>ACS Macro Letters</i> , 2020 , 9, 902-909	6.6	21
46	Asymmetric Electrophilic β -Amination of Silyl Enol Ether Derivatives via the Nitrosocarbonyl Hetero-ene Reaction. <i>Organic Letters</i> , 2015 , 17, 4514-7	6.2	20
45	Tuning Merocyanine Photoacid Structure to Enhance Solubility and Temporal Control: Application in Ring Opening Polymerization. <i>ChemPhotoChem</i> , 2019 , 3, 467-472	3.3	19
44	Photoinduced Deadhesion of a Polymer Film Using a Photochromic Donor-Acceptor Stenhouse Adduct. <i>Macromolecules</i> , 2019 , 52, 6311-6317	5.5	18
43	Light-Mediated Synthesis and Reprocessing of Dynamic Bottlebrush Elastomers under Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9866-9871	16.4	18
42	Direct synthesis of anilines and nitrosobenzenes from phenols. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 5520-4	3.9	17
41	Synthesis of Hindered Anilines: Three-Component Coupling of Arylboronic Acids, tert-Butyl Nitrite, and Alkyl Bromides. <i>Organic Letters</i> , 2016 , 18, 5074-5077	6.2	17
40	Donor-Acceptor Stenhouse Adducts: Exploring the Effects of Ionic Character. <i>Chemistry - A European Journal</i> , 2021 , 27, 4183-4190	4.8	14

39	A Diene-Containing Noncanonical Amino Acid Enables Dual Functionality in Proteins: Rapid Diels-Alder Reaction with Maleimide or Proximity-Based Dimerization. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8489-8493	16.4	13
38	Self-regulating photochemical Rayleigh-Bland convection using a highly-absorbing organic photoswitch. <i>Nature Communications</i> , 2020 , 11, 2599	17.4	13
37	Glass Transition Temperature and Ion Binding Determine Conductivity and Lithium-Ion Transport in Polymer Electrolytes.. <i>ACS Macro Letters</i> , 2021 , 10, 104-109	6.6	13
36	Tunable Photothermal Actuation Enabled by Photoswitching of Donor-Acceptor Stenhouse Adducts. <i>ACS Applied Materials & Interfaces</i> , 2020 ,	9.5	12
35	Promoting the Furan Ring-Opening Reaction to Access New Donor-Acceptor Stenhouse Adducts with Hexafluoroisopropanol. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10219-10227	16.4	12
34	Rapid Synthesis of Fused Oxabicycles through the Molecular Rearrangement of Spirocyclic Ethers. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 6237-6240	3.2	11
33	Desulfurization-bromination: direct chain-end modification of RAFT polymers. <i>Polymer Chemistry</i> , 2017 , 8, 7188-7194	4.9	11
32	Light-Switchable and Self-Healable Polymer Electrolytes Based on Dynamic Diarylethene and Metal-Ion Coordination. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1562-1569	16.4	11
31	Simultaneous Preparation of Multiple Polymer Brushes under Ambient Conditions using Microliter Volumes. <i>Angewandte Chemie</i> , 2018 , 130, 13621-13626	3.6	11
30	Electrospun colourimetric sensors for detecting volatile amines. <i>Sensors and Actuators B: Chemical</i> , 2020 , 322, 128570	8.5	10
29	Multi-stimuli responsive trigger for temporally controlled depolymerization of self-immolative polymers. <i>Polymer Chemistry</i> , 2019 , 10, 4914-4919	4.9	10
28	Enantioselective PCCP Brsted acid-catalyzed aza-Piancatelli rearrangement. <i>Beilstein Journal of Organic Chemistry</i> , 2019 , 15, 1569-1574	2.5	10
27	Chemical and Mechanical Tunability of 3D-Printed Dynamic Covalent Networks Based on Boronate Esters.. <i>ACS Macro Letters</i> , 2021 , 10, 857-863	6.6	10
26	Norbornadiene Chain-End Functional Polymers as Stable, Readily Available Precursors to Cyclopentadiene Derivatives. <i>Macromolecules</i> , 2020 , 53, 4917-4924	5.5	8
25	A Reactive Antibody Platform for One-Step Production of Antibody-Drug Conjugates through a Diels-Alder Reaction with Maleimide. <i>Bioconjugate Chemistry</i> , 2019 , 30, 2340-2348	6.3	8
24	Direct introduction of nitrogen and oxygen functionality with spatial control using copper catalysis. <i>Chemical Science</i> , 2018 , 9, 8748-8752	9.4	7
23	Sulfur-fused perylene diimide electron transport layers allow >400 h operational lifetime of methylammonium lead iodide photovoltaics. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 11126-11133	7.1	6
22	Nitrosocarbonyl hetero-Diels-Alder cycloaddition with 2-substituted 1,3-butadienes. <i>Tetrahedron</i> , 2017 , 73, 4045-4051	2.4	5

21	Lewis Acid Catalyzed Rearrangement of Furylcarbinols: The Aza- and Oxa-Piancatelli Cascade Reaction. <i>Synlett</i> , 2013 , 25, 08-11	2.2	5
20	Interconvertible Living Radical and Cationic Polymerization using a Dual Photoelectrochemical Catalyst. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12278-12285	16.4	4
19	Influence of Polarity Change and Photophysical Effects on Photosurfactant-Driven Wetting. <i>Langmuir</i> , 2021 , 37, 9939-9951	4	4
18	Aqueous reverse iodine transfer polymerization of acrylic acid. <i>Journal of Polymer Science Part A</i> , 2019 , 57, 1877-1881	2.5	3
17	Optical characterization and confocal fluorescence imaging of mechanochromic acrylate polymers. <i>Journal of Applied Physics</i> , 2015 , 117, 043103	2.5	3
16	Determination of methylene bridge crosslinking in chloromethylated PS-DVB resins. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 1955-1960	2.5	3
15	Correction to Copper-Catalyzed Aerobic Oxidation of Hydroxamic Acids Leads to a Mild and Versatile Acylnitroso Ene Reaction. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15963-15963	16.4	3
14	Role of Material Composition in Photothermal Actuation of DASA-Based Polymers. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 141-149	4.3	3
13	Digital Light Processing of Dynamic Bottlebrush Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 200883	15.6	3
12	Amide Moieties Modulate the Antimicrobial Activities of Conjugated Oligoelectrolytes against Gram-negative Bacteria. <i>ChemistryOpen</i> , 2022 , 11, e202100260	2.3	2
11	A new family of liquid and solid guanidine-based n-type dopants for solution-processed perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 3616-3622	7.8	2
10	Shining Light on Cyclopentadienone-Norbornadiene Diels-Alder Adducts to Enable Photoinduced Click Chemistry with Cyclopentadiene. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 35422-35430	9.5	2
9	Role of Electron-Deficient Imidazoles in Ion Transport and Conductivity in Solid-State Polymer Electrolytes. <i>Macromolecules</i> , 2022 , 55, 9711-977	5.5	1
8	Light-Controllable Ionic Conductivity in a Polymeric Ionic Liquid. <i>Angewandte Chemie</i> , 2020 , 132, 5161-5166	5.6	1
7	The role of anions in light-driven conductivity in diarylethene-containing polymeric ionic liquids. <i>Polymer Chemistry</i> , 2021 , 12, 719-724	4.9	1
6	Redox-Active Polymeric Ionic Liquids with Pendant N-Substituted Phenothiazine. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5319-5326	9.5	1
5	Controlling the Isomerization of Photoresponsive Molecules through a Limiting Tautomerization Strategy. <i>Journal of Physical Chemistry B</i> , 2022 ,	3.4	1
4	Promoting the Furan Ring-Opening Reaction to Access New Donor-Acceptor Stenhouse Adducts with Hexafluoroisopropanol. <i>Angewandte Chemie</i> , 2021 , 133, 10307-10315	3.6	0

- 3 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
- 2 Preparation of Cyclopent-2-enone Derivatives via the Aza-Piancatelli Rearrangement 46-59
- 1 Donor-Acceptor Stenhouse Adducts **2022**, 303-324