

# Diego Benitez

## List of Publications by Year in descending order

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46  
papers

6,442  
citations

94381

37  
h-index

206029

48  
g-index

54  
all docs

54  
docs citations

54  
times ranked

5974  
citing authors

#	ARTICLE	IF	CITATIONS
1	An "Endless" Route to Cyclic Polymers. <i>Science</i> , 2002, 297, 2041-2044.	6.0	583
2	A bonding model for gold(I) carbene complexes. <i>Nature Chemistry</i> , 2009, 1, 482-486.	6.6	451
3	Mechanically bonded macromolecules. <i>Chemical Society Reviews</i> , 2010, 39, 17-29.	18.7	428
4	Phosphine-Catalyzed Annulations of Azomethine Imines: Allene-Dependent [3 + 2], [3 + 3], [4 + 3], and [3 + 2 + 3] Pathways. <i>Journal of the American Chemical Society</i> , 2011, 133, 13337-13348.	6.6	296
5	Radically enhanced molecular recognition. <i>Nature Chemistry</i> , 2010, 2, 42-49.	6.6	280
6	Mechanism of C <sup>α</sup> F Reductive Elimination from Palladium(IV) Fluorides. <i>Journal of the American Chemical Society</i> , 2010, 132, 3793-3807.	6.6	273
7	Gold-Catalyzed Intramolecular Aminoarylation of Alkenes: C <sup>α</sup> C Bond Formation through Bimolecular Reductive Elimination. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5519-5522.	7.2	264
8	Bimetallic Reductive Elimination from Dinuclear Pd(III) Complexes. <i>Journal of the American Chemical Society</i> , 2010, 132, 14092-14103.	6.6	237
9	Phosphoramidite Gold(I)-Catalyzed Diastereo- and Enantioselective Synthesis of 3,4-Substituted Pyrrolidines. <i>Journal of the American Chemical Society</i> , 2011, 133, 5500-5507.	6.6	210
10	Two Metals Are Better Than One in the Gold Catalyzed Oxidative Heteroarylation of Alkenes. <i>Journal of the American Chemical Society</i> , 2011, 133, 14293-14300.	6.6	208
11	An Acid-Base-Controllable [2]Daisy Chain. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7470-7474.	7.2	201
12	Synthesis of Cyclic Polybutadiene via Ring-Opening Metathesis Polymerization: The Importance of Removing Trace Linear Contaminants. <i>Journal of the American Chemical Society</i> , 2003, 125, 8424-8425.	6.6	197
13	Alkylgold complexes by the intramolecular aminoauration of unactivated alkenes. <i>Chemical Science</i> , 2010, 1, 226.	3.7	174
14	Synthesis of End-Functionalized Poly(norbornene)s via Ring-Opening Metathesis Polymerization. <i>Macromolecules</i> , 2001, 34, 8610-8618.	2.2	172
15	Highly stable tetrathiafulvalene radical dimers in [3]catenanes. <i>Nature Chemistry</i> , 2010, 2, 870-879.	6.6	171
16	Mechanistic Study of Gold(I)-Catalyzed Intermolecular Hydroamination of Allenes. <i>Journal of the American Chemical Society</i> , 2010, 132, 13064-13071.	6.6	168
17	Isomerization Mechanism in Hydrazone-Based Rotary Switches: Lateral Shift, Rotation, or Tautomerization?. <i>Journal of the American Chemical Society</i> , 2011, 133, 9812-9823.	6.6	166
18	A Radically Configurable Six-State Compound. <i>Science</i> , 2013, 339, 429-433.	6.0	158

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19	On the Impact of Steric and Electronic Properties of Ligands on Gold(I)-Catalyzed Cycloaddition Reactions. <i>Organic Letters</i> , 2009, 11, 4798-4801.	2.4	153
20	Solution-Phase Mechanistic Study and Solid-State Structure of a Tris(bipyridinium radical cation) Inclusion Complex. <i>Journal of the American Chemical Society</i> , 2012, 134, 3061-3072.	6.6	123
21	Relevance of cis- and trans-dichloride Ru intermediates in Grubbs-II olefin metathesis catalysis (H2IMesCl2Ru $\pi$ CHR). <i>Chemical Communications</i> , 2008, , 6194.	2.2	116
22	Mechanically Stabilized Tetrathiafulvalene Radical Dimers. <i>Journal of the American Chemical Society</i> , 2011, 133, 4538-4547.	6.6	114
23	A Push-Button Molecular Switch. <i>Journal of the American Chemical Society</i> , 2009, 131, 11571-11580.	6.6	111
24	Conformations of N-Heterocyclic Carbene Ligands in Ruthenium Complexes Relevant to Olefin Metathesis. <i>Journal of the American Chemical Society</i> , 2009, 131, 1931-1938.	6.6	106
25	The Isomerization Equilibrium between Cis and Trans Chloride Ruthenium Olefin Metathesis Catalysts from Quantum Mechanics Calculations. <i>Journal of the American Chemical Society</i> , 2005, 127, 12218-12219.	6.6	98
26	Folding of a donor-acceptor polyrotaxane by using noncovalent bonding interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6514-6519.	3.3	84
27	Conformational Analysis of Olefin $\pi$ -Carbene Ruthenium Metathesis Catalysts. <i>Organometallics</i> , 2009, 28, 2643-2645.	1.1	76
28	A Bistable Poly[2]catenane Forms Nanosuperstructures. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1792-1797.	7.2	71
29	Electrostatic Barriers in Rotaxanes and Pseudorotaxanes. <i>Chemistry - A European Journal</i> , 2011, 17, 6076-6087.	1.7	68
30	Dearomatization Reactions of N-Heterocycles Mediated by Group 3 Complexes. <i>Journal of the American Chemical Society</i> , 2010, 132, 342-355.	6.6	61
31	Experimentally-Based Recommendations of Density Functionals for Predicting Properties in Mechanically Interlocked Molecules. <i>Journal of the American Chemical Society</i> , 2008, 130, 14928-14929.	6.6	56
32	Reactions of Group III Biheterocyclic Complexes. <i>Journal of the American Chemical Society</i> , 2009, 131, 10269-10278.	6.6	54
33	Donor $\pi$ -Acceptor Oligorotaxanes Made to Order. <i>Chemistry - A European Journal</i> , 2011, 17, 2107-2119.	1.7	53
34	A solid-state switch containing an electrochemically switchable bistable poly[n]rotaxane. <i>Journal of Materials Chemistry</i> , 2011, 21, 1487-1495.	6.7	45
35	Functionally Rigid and Degenerate Molecular Shuttles. <i>Chemistry - A European Journal</i> , 2009, 15, 1115-1122.	1.7	44
36	Isolation by crystallization of translational isomers of a bistable donor-acceptor [2]catenane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13991-13996.	3.3	39

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37	An interdigitated functionally rigid [2]rotaxane. <i>Chemical Communications</i> , 2008, , 4561.	2.2	35
38	Measurement of the ground-state distributions in bistable mechanically interlocked molecules using slow scan rate cyclic voltammetry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20416-20421.	3.3	30
39	An Unusual Hydrogen Migration/C-H Activation Reaction with Group 3 Metals. <i>Journal of the American Chemical Society</i> , 2011, 133, 4680-4683.	6.6	27
40	Amino Acid Block Copolymers with Broad Antimicrobial Activity and Barrier Properties. <i>Macromolecular Bioscience</i> , 2017, 17, 1600492.	2.1	26
41	Inclusion Behavior of $\beta$ -Cyclodextrin with Bipyridine Molecules: Factors Governing Host-Guest Inclusion Geometries. <i>Chemistry - an Asian Journal</i> , 2009, 4, 446-456.	1.7	22
42	Hexafunctionalized Borromeanes Using Olefin Cross Metathesis. <i>Organic Letters</i> , 2007, 9, 2433-2436.	2.4	21
43	A Molecular-Rotor Device for Nonvolatile High-Density Memory Applications. <i>IEEE Electron Device Letters</i> , 2010, 31, 1047-1049.	2.2	10
44	Rigidity-Stability Relationship in Interlocked Model Complexes Containing Phenylene-Ethynylene-Based Disubstituted Naphthalene and Benzene. <i>Crystal Growth and Design</i> , 2009, 9, 2300-2309.	1.4	6
45	Room temperature negative differential resistance of a monolayer molecular rotor device. <i>Applied Physics Letters</i> , 2009, 95, 093503.	1.5	5
46	A nano-scale molecular rotor device for high density memory application. , 2009, , .		0