

Francisco Dean Toste

List of Publications by Year in Descending Order

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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.

362 papers	41,318 citations	125 h-index	193 g-index
523 ext. papers	45,447 ext. citations	14.6 avg, IF	8.08 L-index

#	Paper	IF	Citations
362	Photo-Brook rearrangement of acyl silanes as a strategy for photoaffinity probe design.. <i>Chemical Science</i> , 2022 , 13, 3851-3856	9.4	5
361	Cooperative Stereinduction in Asymmetric Photocatalysis.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	3
360	Revisiting the Bonding Model for Gold(I) Species: The Importance of Pauli Repulsion Revealed in a Gold(I)-Cyclobutadiene Complex.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	3
359	ASYMMETRIC PHASE-TRANSFER AND ION-PAIR ORGANOCATALYSES 2022 , 117-156		
358	Backbone-Photodegradable Polymers by Incorporating Acylsilane Monomers via Ring-Opening Metathesis Polymerization. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17920-17925	16.4	6
357	The interface is a tunable dimension in electricity-driven organic synthesis. <i>Natural Sciences</i> , 2021 , 1, e20210036		2
356	Controlled Single-Electron Transfer via Metal-Ligand Cooperativity Drives Divergent Nickel-Electrocatalyzed Radical Pathways. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6990-7001	16.4	11
355	A heterogeneous iridium single-atom-site catalyst for highly regioselective carbenoid O-H bond insertion. <i>Nature Catalysis</i> , 2021 , 4, 523-531	36.5	28
354	CO reduction on pure Cu produces only H after subsurface O is depleted: Theory and experiment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	11
353	Site-Independent Hydrogenation Reactions on Oxide-Supported Au Nanoparticles Facilitated by Intraparticle Hydrogen Atom Diffusion. <i>ACS Catalysis</i> , 2021 , 11, 9875-9884	13.1	2
352	Approaching 100% Selectivity at Low Potential on Ag for Electrochemical CO ₂ Reduction to CO Using a Surface Additive. <i>ACS Catalysis</i> , 2021 , 11, 9034-9042	13.1	5
351	Staphylococcus aureus Peptide Methionine Sulfoxide Reductases Protect from Human Whole-Blood Killing. <i>Infection and Immunity</i> , 2021 , 89, e0014621	3.7	0
350	Using silyl protecting group to enable post-deposition C-C coupling reactions of alkyne-functionalized N-heterocyclic carbene monolayers on Au surfaces. <i>Chemical Communications</i> , 2021 , 57, 5342-5345	5.8	3
349	Asymmetric Fluorination Reactions 2021 , 241-280		1
348	Zirconium-Redox-Shuttled Cross-Electrophile Coupling of Aromatic and Heteroaromatic Halides. <i>Chem</i> , 2021 , 7, 1963-1974	16.2	2
347	Data Science Meets Physical Organic Chemistry. <i>Accounts of Chemical Research</i> , 2021 ,	24.3	12
346	Synthesis of -trifluoromethyl amides from carboxylic acids.. <i>Chem</i> , 2021 , 7, 2245-2255	16.2	2

345	Generation of Axially Chiral Fluoroallenes through a Copper-Catalyzed Enantioselective β -Fluoride Elimination. <i>Journal of the American Chemical Society</i> , 2021 , 143, 13759-13768	16.4	8
344	Chemoselective and Site-Selective Reductions Catalyzed by a Supramolecular Host and a Pyridine-Borane Cofactor. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2108-2114	16.4	10
343	Beyond Allylic Alkylation: Applications of Trost Chemistry in Complex Molecule Synthesis. <i>Israel Journal of Chemistry</i> , 2021 , 61, 340-366	3.4	2
342	Enantioselective Intramolecular Allylic Substitution via Synergistic Palladium/Chiral Phosphoric Acid Catalysis: Insight into Stereoinduction through Statistical Modeling. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14647-14655	16.4	10
341	Enantioselective Intramolecular Allylic Substitution via Synergistic Palladium/Chiral Phosphoric Acid Catalysis: Insight into Stereoinduction through Statistical Modeling. <i>Angewandte Chemie</i> , 2020 , 132, 14755-14763	3.6	2
340	Enantioselective Allenoate-Claisen Rearrangement Using Chiral Phosphate Catalysts. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6390-6399	16.4	28
339	Site-dependent selectivity in oxidation reactions on single Pt nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 18765-18769	3.6	5
338	Strategies for remote enantiocontrol in chiral gold(III) complexes applied to catalytic enantioselective β -Diels-Alder reactions. <i>Chemical Science</i> , 2020 , 11, 6450-6456	9.4	21
337	Systematic identification of engineered methionines and oxaziridines for efficient, stable, and site-specific antibody bioconjugation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 5733-5740	11.5	13
336	Regio- and Enantioselective Bromocyclization of Difluoroalkenes as a Strategy to Access Tetrasubstituted Difluoromethylene-Containing Stereocenters. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8946-8952	16.4	33
335	An isolated water droplet in the aqueous solution of a supramolecular tetrahedral cage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 32954-32961	11.5	8
334	Enantioselective Kinetic Resolution/Desymmetrization of α -Quinols: A Case Study in Boronic-Acid-Directed Phosphoric Acid Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 295-301	5.6	12
333	A Nanovessel-Catalyzed Three-Component Aza-Darzens Reaction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 733-737	16.4	20
332	An Activity-Based Methionine Bioconjugation Approach To Developing Proximity-Activated Imaging Reporters. <i>ACS Central Science</i> , 2020 , 6, 32-40	16.8	9
331	Architectural Stabilization of a Gold(III) Catalyst in Metal-Organic Frameworks. <i>Chem</i> , 2020 , 6, 142-152	16.2	19
330	Strong Metal-Adsorbate Interactions Increase the Reactivity and Decrease the Orientational Order of OH-Functionalized N-Heterocyclic Carbene Monolayers. <i>Langmuir</i> , 2020 , 36, 697-703	4	11
329	Electrochemical deposition of N-heterocyclic carbene monolayers on metal surfaces. <i>Nature Communications</i> , 2020 , 11, 5714	17.4	9
328	Advances in supramolecular host-mediated reactivity. <i>Nature Catalysis</i> , 2020 , 3, 969-984	36.5	65

- 327 Homogeneous Gold Redox Chemistry: Organometallics, Catalysis, and Beyond. *Trends in Chemistry*, **2020**, 2, 707-720 14.8 51
- 326 Heterogeneous Supramolecular Catalysis through Immobilization of Anionic ML Assemblies on Cationic Polymers. *Journal of the American Chemical Society*, **2020**, 142, 19327-19338 16.4 9
- 325 Catalytic Dynamic Kinetic Resolutions in Tandem to Construct Two-Axis Terphenyl Atropisomers. *Journal of the American Chemical Society*, **2020**, 142, 16461-16470 16.4 25
- 324 Site-selective acylation of natural products with BINOL-derived phosphoric acids. *ACS Catalysis*, **2019**, 9, 9794-9799 13.1 16
- 323 Supramolecular Host-Selective Activation of Iodoarenes by Encapsulated Organometallics. *Journal of the American Chemical Society*, **2019**, 141, 1701-1706 16.4 33
- 322 Measuring ion-pairing and hydration in variable charge supramolecular cages with microwave microfluidics. *Communications Chemistry*, **2019**, 2, 1-10 6.3 6
- 321 Synthesis of Biomass-Derived Ethers for Use as Fuels and Lubricants. *ChemSusChem*, **2019**, 12, 2835-2858 8.3 24
- 320 Disparate Catalytic Scaffolds for Atroposelective Cyclodehydration. *Journal of the American Chemical Society*, **2019**, 141, 6698-6705 16.4 72
- 319 A Dinuclear Mechanism Implicated in Controlled Carbene Polymerization. *Journal of the American Chemical Society*, **2019**, 141, 6473-6478 16.4 18
- 318 Electrocatalysis at Organic-Metal Interfaces: Identification of Structure-Reactivity Relationships for CO Reduction at Modified Cu Surfaces. *Journal of the American Chemical Society*, **2019**, 141, 7355-7364 16.4 76
- 317 Flexible NO -Functionalized N-Heterocyclic Carbene Monolayers on Au (111) Surface. *Chemistry - A European Journal*, **2019**, 25, 15067-15072 4.8 23
- 316 Elucidating the Influence of Anchoring Geometry on the Reactivity of NO-Functionalized N-Heterocyclic Carbene Monolayers. *Journal of Physical Chemistry Letters*, **2019**, 10, 5099-5104 6.4 19
- 315 A Supramolecular Strategy for Selective Catalytic Hydrogenation Independent of Remote Chain Length. *Journal of the American Chemical Society*, **2019**, 141, 11806-11810 16.4 39
- 314 Enantioselective construction of remote tertiary carbon-fluorine bonds. *Nature Chemistry*, **2019**, 11, 710-715 17.1 42
- 313 A Physical Organic Approach to Tuning Reagents for Selective and Stable Methionine Bioconjugation. *Journal of the American Chemical Society*, **2019**, 141, 12657-12662 16.4 33
- 312 Mechanism and Kinetics of Isobutene Formation from Ethanol and Acetone over Zn_xZr_yO_z. *ACS Catalysis*, **2019**, 9, 10588-10604 13.1 18
- 311 Catalytic, Enantioselective Fluorination Reactions **2019**, 749-800
- 310 Flexible NO -Functionalized N-Heterocyclic Carbene Monolayers on Au(111) Surface. *Chemistry - A European Journal*, **2019**, 25, 15009 4.8

309	Asymmetric Synthesis Enabled by Organometallic Complexes. <i>Organometallics</i> , 2019 , 38, 3899-3901	3.8	5
308	Harnessing Noncovalent Interactions in Dual-Catalytic Enantioselective Heck-Matsuda Arylation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 998-1009	16.4	46
307	Mechanism of Photoredox-Initiated C-C and C-N Bond Formation by Arylation of IPrAu(I)-CF and IPrAu(I)-Succinimide. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4308-4315	16.4	34
306	Supported Au Nanoparticles with N-Heterocyclic Carbene Ligands as Active and Stable Heterogeneous Catalysts for Lactonization. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4144-4149	16.4	73
305	Enantioselective Synthesis of N,S-Acetals by an Oxidative Pummerer-Type Transformation using Phase-Transfer Catalysis. <i>Angewandte Chemie</i> , 2018 , 130, 598-602	3.6	6
304	Foundations and strategies of the construction of hybrid catalysts for optimized performances. <i>Nature Catalysis</i> , 2018 , 1, 318-325	36.5	97
303	Migratory Insertion of Carbenes into Au(III)-C Bonds. <i>Journal of the American Chemical Society</i> , 2018 , 140, 466-474	16.4	25
302	Modern Approaches for Asymmetric Construction of Carbon-Fluorine Quaternary Stereogenic Centers: Synthetic Challenges and Pharmaceutical Needs. <i>Chemical Reviews</i> , 2018 , 118, 3887-3964	68.1	316
301	Effect of Alcohol Structure on the Kinetics of Etherification and Dehydration over Tungstated Zirconia. <i>ChemSusChem</i> , 2018 , 11, 3104-3111	8.3	20
300	Enantioselective fluorination of homoallylic alcohols enabled by the tuning of non-covalent interactions. <i>Chemical Science</i> , 2018 , 9, 7153-7158	9.4	18
299	Identifying site-dependent reactivity in oxidation reactions on single Pt particles. <i>Chemical Science</i> , 2018 , 9, 6523-6531	9.4	18
298	Gold-Catalyzed Hydrofluorination of Electron-Deficient Alkynes: Stereoselective Synthesis of -Fluoro Michael Acceptors. <i>ACS Catalysis</i> , 2018 , 8, 5947-5951	13.1	40
297	Enantioselective Synthesis of N,S-Acetals by an Oxidative Pummerer-Type Transformation using Phase-Transfer Catalysis. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 589-593	16.4	25
296	Selectivity tuning over monometallic and bimetallic dehydrogenation catalysts: effects of support and particle size. <i>Catalysis Science and Technology</i> , 2018 , 8, 314-327	5.5	18
295	Self-Assembled Tetrahedral Hosts as Supramolecular Catalysts. <i>Accounts of Chemical Research</i> , 2018 , 51, 2447-2455	24.3	198
294	Hybrid Biological-Chemical Approach Offers Flexibility and Reduces the Carbon Footprint of Biobased Plastics, Rubbers, and Fuels. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 14523-14532	8.3	6
293	Deconvoluting the Role of Charge in a Supramolecular Catalyst. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6591-6595	16.4	49
292	Chiral Diaryliodonium Phosphate Enables Light Driven Diastereoselective α -(sp)-H Acetalization. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8350-8356	16.4	29

291	High-spatial-resolution mapping of catalytic reactions on single particles. <i>Nature</i> , 2017 , 541, 511-515	50.4	140
290	ABE Condensation over Monometallic Catalysts: Catalyst Characterization and Kinetics. <i>ChemCatChem</i> , 2017 , 9, 677-684	5.2	28
289	The development and mechanistic investigation of a palladium-catalyzed 1,3-arylfluorination of chromenes. <i>Chemical Science</i> , 2017 , 8, 2890-2897	9.4	54
288	Redox-based reagents for chemoselective methionine bioconjugation. <i>Science</i> , 2017 , 355, 597-602	33.3	231
287	Enantioselective Heck-Matsuda Arylations through Chiral Anion Phase-Transfer of Aryl Diazonium Salts. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5806-5811	16.4	45
286	A Comparison of Photocatalytic Activities of Gold Nanoparticles Following Plasmonic and Interband Excitation and a Strategy for Harnessing Interband Hot Carriers for Solution Phase Photocatalysis. <i>ACS Central Science</i> , 2017 , 3, 482-488	16.8	111
285	Uncovering Subtle Ligand Effects of Phosphines Using Gold(I) Catalysis. <i>ACS Catalysis</i> , 2017 , 7, 3973-3978	33.1	55
284	Parametrization of Non-covalent Interactions for Transition State Interrogation Applied to Asymmetric Catalysis. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6803-6806	16.4	69
283	Enantioselective Heck-Matsuda Arylations through Chiral Anion Phase-Transfer of Aryl Diazonium Salts. <i>Angewandte Chemie</i> , 2017 , 129, 5900-5905	3.6	10
282	A catalytic fluoride-rebound mechanism for C(sp)-CF bond formation. <i>Science</i> , 2017 , 356, 1272-1276	33.3	64
281	Exploiting non-covalent interactions for catalyst design. <i>Nature</i> , 2017 , 543, 637-646	50.4	423
280	Pursuit of Noncovalent Interactions for Strategic Site-Selective Catalysis. <i>Accounts of Chemical Research</i> , 2017 , 50, 609-615	24.3	147
279	New Insights into Aldol Reactions of Methyl Isocyanoacetate Catalyzed by Heterogenized Homogeneous Catalysts. <i>Nano Letters</i> , 2017 , 17, 584-589	11.5	16
278	Hydrogen Gas-Mediated Deoxydehydration/Hydrogenation of Sugar Acids: Catalytic Conversion of Glucarates to Adipates. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14001-14004	16.4	46
277	Multidimensional Correlations in Asymmetric Catalysis through Parameterization of Uncatalyzed Transition States. <i>Angewandte Chemie</i> , 2017 , 129, 14268-14272	3.6	7
276	Mechanism and kinetics of 1-dodecanol etherification over tungstated zirconia. <i>Journal of Catalysis</i> , 2017 , 354, 13-23	7.3	18
275	Parameterization of Acyclic Diaminocarbene Ligands Applied to a Gold(I)-Catalyzed Enantioselective Tandem Rearrangement/Cyclization. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12943-12946	16.4	57
274	Multidimensional Correlations in Asymmetric Catalysis through Parameterization of Uncatalyzed Transition States. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14080-14084	16.4	23

273	Well-Defined Chiral Gold(III) Complex Catalyzed Direct Enantioconvergent Kinetic Resolution of 1,5-Enynes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11016-11019	16.4	63
272	Mechanistic Investigations of the Pd(0)-Catalyzed Enantioselective 1,1-Diarylation of Benzyl Acrylates. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12688-12695	16.4	69
271	Dendrimer-Stabilized Metal Nanoparticles as Efficient Catalysts for Reversible Dehydrogenation/Hydrogenation of N-Heterocycles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18084-18092	16.4	110
270	Supported Dendrimer-Encapsulated Metal Clusters: Toward Heterogenizing Homogeneous Catalysts. <i>Accounts of Chemical Research</i> , 2017 , 50, 1894-1901	24.3	94
269	Conformational Selection as the Mechanism of Guest Binding in a Flexible Supramolecular Host. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8013-8021	16.4	74
268	Enantioselective Oxidative Homocoupling and Cross-Coupling of 2-Naphthols Catalyzed by Chiral Iron Phosphate Complexes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16553-16560	16.4	154
267	Development and Analysis of a Pd(0)-Catalyzed Enantioselective 1,1-Diarylation of Acrylates Enabled by Chiral Anion Phase Transfer. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15877-15880	16.4	90
266	Scope and Mechanism of Cooperativity at the Intersection of Organometallic and Supramolecular Catalysis. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9682-93	16.4	74
265	Seven Post-synthetic Covalent Reactions in Tandem Leading to Enzyme-like Complexity within Metal-Organic Framework Crystals. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8352-5	16.4	146
264	Metal Nanoparticles Catalyzed Selective Carbon-Carbon Bond Activation in the Liquid Phase. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8533-7	16.4	31
263	Isolation and Reactivity of Trifluoromethyl Iodonium Salts. <i>ACS Central Science</i> , 2016 , 2, 341-50	16.8	69
262	Co-production of acetone and ethanol with molar ratio control enables production of improved gasoline or jet fuel blends. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 2079-87	4.9	11
261	Asymmetric addition of branched cyclic ketones to allenamides catalyzed by a chiral phosphoric acid. <i>Chemical Science</i> , 2016 , 7, 2653-2656	9.4	49
260	Combining microbial production with chemical upgrading. <i>Current Opinion in Biotechnology</i> , 2016 , 38, 47-53	11.4	31
259	Visible light-mediated gold-catalysed carbon(sp)-carbon(sp) cross-coupling. <i>Chemical Science</i> , 2016 , 7, 85-88	9.4	129
258	Recent advances in enantioselective gold catalysis. <i>Chemical Society Reviews</i> , 2016 , 45, 4567-89	58.5	325
257	Enantiodivergent Fluorination of Allylic Alcohols: Data Set Design Reveals Structural Interplay between Achiral Directing Group and Chiral Anion. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3863-75	16.4	89
256	Production of renewable lubricants via self-condensation of methyl ketones. <i>Green Chemistry</i> , 2016 , 18, 3577-3581	10	25

255	Phosphonium Formation by Facile Carbon-Phosphorus Reductive Elimination from Gold(III). <i>Journal of the American Chemical Society</i> , 2016 , 138, 587-93	16.4	71
254	Enantioselective Palladium-Catalyzed Oxidative α -Fluoroarylation of α,β -Unsaturated Carbonyl Derivatives. <i>Angewandte Chemie</i> , 2016 , 128, 9191-9195	3.6	15
253	Enantioselective Palladium-Catalyzed Oxidative α -Fluoroarylation of α,β -Unsaturated Carbonyl Derivatives. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9045-9	16.4	47
252	Enantioselective, Stereodivergent Hydroazidation and Hydroamination of Allenes Catalyzed by Acyclic Diaminocarbene (ADC) Gold(I) Complexes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6079-83	16.4	65
251	Enantioselective, Stereodivergent Hydroazidation and Hydroamination of Allenes Catalyzed by Acyclic Diaminocarbene (ADC) Gold(I) Complexes. <i>Angewandte Chemie</i> , 2016 , 128, 6183-6187	3.6	17
250	Synergistic Effects in Bimetallic Palladium-Copper Catalysts Improve Selectivity in Oxygenate Coupling Reactions. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6805-12	16.4	77
249	Photoredox Catalysis Unlocks Single-Electron Elementary Steps in Transition Metal Catalyzed Cross-Coupling. <i>ACS Central Science</i> , 2016 , 2, 293-301	16.8	164
248	Palladium-Catalyzed Defluorinative Coupling of 1-Aryl-2,2-Difluoroalkenes and Boronic Acids: Stereoselective Synthesis of Monofluorostilbenes. <i>Angewandte Chemie</i> , 2016 , 128, 11801-11804	3.6	40
247	Palladium-Catalyzed Defluorinative Coupling of 1-Aryl-2,2-Difluoroalkenes and Boronic Acids: Stereoselective Synthesis of Monofluorostilbenes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11629-32	16.4	119
246	Gold Catalysis β -Steadily Increasing in Importance. <i>Advanced Synthesis and Catalysis</i> , 2016 , 358, 1347-1347	5.6	53
245	Biomimetic Approach to the Catalytic Enantioselective Synthesis of Flavonoids. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9775-8	16.4	49
244	Production of Fuels and Chemicals from Biomass: Condensation Reactions and Beyond. <i>Chem</i> , 2016 , 1, 32-58	16.2	230
243	Stable gold(III) catalysts by oxidative addition of a carbon-carbon bond. <i>Nature</i> , 2015 , 517, 449-54	50.4	217
242	Enantioselective 1,1-arylborylation of alkenes: merging chiral anion phase transfer with Pd catalysis. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3213-3216	16.4	123
241	A divergent/convergent approach to dolabriferol: the Kornblum-DeLaMare enantiomeric resolution. <i>Tetrahedron Letters</i> , 2015 , 56, 3643-3646	2	9
240	Gold(I)-catalyzed dearomative Rautenstrauch rearrangement: enantioselective access to cyclopenta[b]indoles. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3225-8	16.4	138
239	Production of an acetone-butanol-ethanol mixture from <i>Clostridium acetobutylicum</i> and its conversion to high-value biofuels. <i>Nature Protocols</i> , 2015 , 10, 528-37	18.8	61
238	Enabling New Modes of Reactivity via Constrictive Binding in a Supramolecular-Assembly-Catalyzed Aza-Prins Cyclization. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9202-5	16.4	82

237	Supramolecular catalysis in metal-ligand cluster hosts. <i>Chemical Reviews</i> , 2015 , 115, 3012-35	68.1	829
236	Highly selective condensation of biomass-derived methyl ketones as a source of aviation fuel. <i>ChemSusChem</i> , 2015 , 8, 1726-36	8.3	90
235	Direct asymmetric amination of branched cyclic ketones catalyzed by a chiral phosphoric acid. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3205-8	16.4	109
234	Supramolecular Ga ₄ L ₆ (12-) Cage Photosensitizes 1,3-Rearrangement of Encapsulated Guest via Photoinduced Electron Transfer. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10128-31	16.4	69
233	Palladium-catalyzed enantioselective 1,1-fluoroarylation of aminoalkenes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12207-10	16.4	80
232	Protein-like proton exchange in a synthetic host cavity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 15303-7	11.5	12
231	The effect of host structure on the selectivity and mechanism of supramolecular catalysis of Prins cyclizations. <i>Chemical Science</i> , 2015 , 6, 1383-1393	9.4	54
230	Polymer-Encapsulated Metallic Nanoparticles as a Bridge Between Homogeneous and Heterogeneous Catalysis. <i>Catalysis Letters</i> , 2015 , 145, 126-138	2.8	53
229	A dual catalytic strategy for carbon-phosphorus cross-coupling via gold and photoredox catalysis. <i>Chemical Science</i> , 2015 , 6, 1194-1198	9.4	166
228	Advances in catalytic enantioselective fluorination, mono-, di-, and trifluoromethylation, and trifluoromethylthiolation reactions. <i>Chemical Reviews</i> , 2015 , 115, 826-70	68.1	938
227	Enantioselective Synthesis of Fluoro-Dihydroquinazolones and -Benzooxazinones by Fluorination-Initiated Asymmetric Cyclization Reactions. <i>ACS Catalysis</i> , 2015 , 6, 151-154	13.1	32
226	Catalytic Upgrading of Biomass-Derived Methyl Ketones to Liquid Transportation Fuel Precursors by an Organocatalytic Approach. <i>Angewandte Chemie</i> , 2015 , 127, 4756-4760	3.6	9
225	Gold(I)-Catalyzed Enantioselective Desymmetrization of 1,3-Diols through Intramolecular Hydroalkoxylation of Allenes. <i>Angewandte Chemie</i> , 2015 , 127, 14655-14659	3.6	13
224	Gold(I)-Catalyzed Desymmetrization of 1,4-Dienes by an Enantioselective Tandem Alkoxylation/Claisen Rearrangement. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8529-32	16.4	49
223	Upgrading Lignocellulosic Products to Drop-In Biofuels via Dehydrogenative Cross-Coupling and Hydrodeoxygenation Sequence. <i>ChemSusChem</i> , 2015 , 8, 2609-14	8.3	26
222	Gold(I)-Catalyzed Desymmetrization of 1,4-Dienes by an Enantioselective Tandem Alkoxylation/Claisen Rearrangement. <i>Angewandte Chemie</i> , 2015 , 127, 8649-8652	3.6	17
221	Gold(I)-Catalyzed Enantioselective Desymmetrization of 1,3-Diols through Intramolecular Hydroalkoxylation of Allenes. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14447-51	16.4	50
220	Halide-Dependent Mechanisms of Reductive Elimination from Gold(III). <i>Journal of the American Chemical Society</i> , 2015 , 137, 7921-8	16.4	68

219	Novel pathways for fuels and lubricants from biomass optimized using life-cycle greenhouse gas assessment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7645-9	11.5	90
218	Gold(I)-catalyzed enantioselective [3+2] and [3+3] cycloaddition reactions of propargyl acetals/ketals. <i>Tetrahedron</i> , 2015 , 71, 5800-5805	2.4	19
217	Catalytic upgrading of biomass-derived methyl ketones to liquid transportation fuel precursors by an organocatalytic approach. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4673-7	16.4	52
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