

# David J Nelson

## 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.

71  
papers

2,757  
citations

26  
h-index

51  
g-index

92  
ext. papers

3,191  
ext. citations

6.9  
avg, IF

5.81  
L-index

#	Paper	IF	Citations
71	Quantifying and understanding the electronic properties of N-heterocyclic carbenes. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 6723-53	58.5	757
70	What can NMR spectroscopy of selenoureas and phosphinidenes teach us about the accepting abilities of $\sigma$ -heterocyclic carbenes?. <i>Chemical Science</i> , <b>2015</b> , 6, 1895-1904	9.4	201
69	Quantifying and understanding the steric properties of N-heterocyclic carbenes. <i>Chemical Communications</i> , <b>2017</b> , 53, 2650-2660	5.8	192
68	Key processes in ruthenium-catalysed olefin metathesis. <i>Chemical Communications</i> , <b>2014</b> , 50, 10355-75	5.8	119
67	Oxidative Addition of Aryl Electrophiles to a Prototypical Nickel(0) Complex: Mechanism and Structure/Reactivity Relationships. <i>Organometallics</i> , <b>2017</b> , 36, 1662-1672	3.8	101
66	Methoxy-Functionalized N-Heterocyclic Carbenes. <i>Organometallics</i> , <b>2014</b> , 33, 2048-2058	3.8	83
65	What is the initiation step of the Grubbs-Hoveyda olefin metathesis catalyst?. <i>Chemical Communications</i> , <b>2011</b> , 47, 5428-30	5.8	80
64	Exploring the Coordination of Cyclic Selenoureas to Gold(I). <i>Organometallics</i> , <b>2014</b> , 33, 3640-3645	3.8	62
63	How phenyl makes a difference: mechanistic insights into the ruthenium(II)-catalysed isomerisation of allylic alcohols. <i>Chemical Science</i> , <b>2014</b> , 5, 180-188	9.4	52
62	Insights into the decomposition of olefin metathesis precatalysts. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 8995-9	16.4	51
61	Efficient C-N and C-S Bond Formation Using the Highly Active [Ni(allyl)Cl(IPr*OMe)] Precatalyst. <i>European Journal of Organic Chemistry</i> , <b>2014</b> , 2014, 3127-3131	3.2	50
60	Olefin Metathesis by Grubbs-Hoveyda Complexes: Computational and Experimental Studies of the Mechanism and Substrate-Dependent Kinetics. <i>ACS Catalysis</i> , <b>2013</b> , 3, 1929-1939	13.1	48
59	Accessible Syntheses of Late Transition Metal (Pre)Catalysts Bearing N-Heterocyclic Carbene Ligands. <i>European Journal of Inorganic Chemistry</i> , <b>2015</b> , 2015, 2012-2027	2.3	47
58	Synergic Effects Between N-Heterocyclic Carbene and Chelating Benzylidene Ether Ligands Toward the Initiation Step of Hoveyda-Grubbs Type Ru Complexes. <i>ACS Catalysis</i> , <b>2013</b> , 3, 259-264	13.1	41
57	On the Mechanism of the Digold(I)-Hydroxide-Catalysed Hydrophenoxylation of Alkynes. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 1125-32	4.8	41
56	Searching for the Hidden Hydrides: The Competition between Alkene Isomerization and Metathesis with Grubbs Catalysts. <i>European Journal of Organic Chemistry</i> , <b>2012</b> , 2012, 5673-5677	3.2	40
55	Halide Abstraction Competes with Oxidative Addition in the Reactions of Aryl Halides with [Ni(PMePh) <sub>3</sub> ]. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 16728-16733	4.8	36

54	Iridium(I) hydroxides: powerful synthons for bond activation. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 7904-16	4.8	35
53	Recyclable NHC Catalyst for the Development of a Generalized Approach to Continuous Buchwald-Hartwig Reaction and Workup. <i>Organic Process Research and Development</i> , <b>2016</b> , 20, 551-557	3.9	33
52	Prediction of ring formation efficiency via diene ring closing metathesis (RCM) reactions using the M06 density functional. <i>Chemical Physics Letters</i> , <b>2009</b> , 476, 37-40	2.5	32
51	Hydroxide complexes of the late transition metals: Organometallic chemistry and catalysis. <i>Coordination Chemistry Reviews</i> , <b>2017</b> , 353, 278-294	23.2	29
50	Solvent effects on Grubbs' pre-catalyst initiation rates. <i>Dalton Transactions</i> , <b>2013</b> , 42, 4110-3	4.3	29
49	Interrogating Pd(II) Anion Metathesis Using a Bifunctional Chemical Probe: A Transmetalation Switch. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 126-130	16.4	28
48	Synthesis and characterisation of an N-heterocyclic carbene with spatially-defined steric impact. <i>Dalton Transactions</i> , <b>2016</b> , 45, 11772-80	4.3	28
47	CO <sub>2</sub> fixation employing an iridium(I)-hydroxide complex. <i>Chemical Communications</i> , <b>2014</b> , 50, 286-8	5.8	27
46	Exploring the Limits of Catalytic Ammonia-Borane Dehydrogenation Using a Bis(N-heterocyclic carbene) Iridium(III) Complex. <i>Organometallics</i> , <b>2013</b> , 32, 3769-3772	3.8	26
45	A Highly Active Cationic Ruthenium Complex for Alkene Isomerisation: A Catalyst for the Synthesis of High Value Molecules. <i>ChemCatChem</i> , <b>2013</b> , 5, 2848-2851	5.2	25
44	Evaluation of an olefin metathesis pre-catalyst with a bulky and electron-rich N-heterocyclic carbene. <i>Journal of Organometallic Chemistry</i> , <b>2015</b> , 780, 43-48	2.3	24
43	Why is RCM favoured over dimerisation? Predicting and estimating thermodynamic effective molarities by solution experiments and electronic structure calculations. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 13087-94	4.8	24
42	Synthesis, characterization and luminescence studies of gold(I)-NHC amide complexes. <i>Beilstein Journal of Organic Chemistry</i> , <b>2013</b> , 9, 2216-23	2.5	21
41	Steric effects determine the mechanisms of reactions between bis(N-heterocyclic carbene)-nickel(0) complexes and aryl halides. <i>Chemical Communications</i> , <b>2018</b> , 54, 10646-10649	5.8	21
40	Optimizing Catalyst and Reaction Conditions in Gold(I) Catalysis-Ligand Development. <i>Chemical Reviews</i> , <b>2021</b> , 121, 8559-8612	68.1	20
39	From ruthenium olefin metathesis catalyst to (β-3-phenylindenyl)hydrido complex via alcoholysis. <i>Chemical Communications</i> , <b>2014</b> , 50, 2205-7	5.8	19
38	Does the rate of competing isomerisation during alkene metathesis depend on pre-catalyst initiation rate?. <i>Dalton Transactions</i> , <b>2014</b> , 43, 4674-9	4.3	19
37	Deuteration of boranes: catalysed versus non-catalysed processes. <i>Dalton Transactions</i> , <b>2013</b> , 42, 4105-9	4.3	19

36	The preference for dual-gold(i) catalysis in the hydro(alkoxylation vs. phenoxylation) of alkynes. <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 6416-6425	3.9	18
35	Insights into mechanism and selectivity in ruthenium(II)-catalysed ortho-arylation reactions directed by Lewis basic groups. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 3174-3182	5.5	18
34	Coinage metal complexes of selenoureas derived from N-heterocyclic carbenes. <i>Dalton Transactions</i> , <b>2018</b> , 47, 10671-10684	4.3	17
33	The Electrophilic Fluorination of Enol Esters Using SelectFluor: A Polar Two-Electron Process. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 5574-5585	4.8	16
32	Iridium(I) hydroxides in catalysis: rearrangement of allylic alcohols to ketones. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 6672-6	3.9	16
31	Straightforward access to chalcogenoureas derived from N-heterocyclic carbenes and their coordination chemistry. <i>Dalton Transactions</i> , <b>2020</b> , 49, 12068-12081	4.3	15
30	Half-sandwich nickel(II) complexes bearing 1,3-di(cycloalkyl)imidazol-2-ylidene ligands. <i>Beilstein Journal of Organic Chemistry</i> , <b>2015</b> , 11, 2171-8	2.5	14
29	On the relationship between structure and reaction rate in olefin ring-closing metathesis. <i>Chemical Communications</i> , <b>2010</b> , 46, 7145-7	5.8	14
28	Toward a simulation approach for alkene ring-closing metathesis: scope and limitations of a model for RCM. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 8386-93	4.2	13
27	Aldehydes and ketones influence reactivity and selectivity in nickel-catalysed Suzuki-Miyaura reactions. <i>Chemical Science</i> , <b>2020</b> , 11, 1905-1911	9.4	12
26	Reactions of nickel(0) with organochlorides, organobromides, and organoiodides: mechanisms and structure/reactivity relationships. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 2980-2996	5.5	12
25	N-Heterocyclic Carbenes <b>2014</b> , 1-24		11
24	Nickel versus Palladium in Cross-Coupling Catalysis: On the Role of Substrate Coordination to Zerovalent Metal Complexes. <i>Synthesis</i> , <b>2020</b> , 52, 565-573	2.9	11
23	Design Concepts for N-Heterocyclic Carbene Ligands. <i>Trends in Chemistry</i> , <b>2020</b> , 2, 1096-1113	14.8	11
22	Synthesis and reactivity of new bis(N-heterocyclic carbene) iridium(I) complexes. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 12674-81	5.1	10
21	Trisubstituted cyclooctene synthesis at the limits of relay ring-closing metathesis: a racemic difluorinated analogue of fucose. <i>Tetrahedron</i> , <b>2009</b> , 65, 9637-9646	2.4	10
20	Unexpected Nickel Complex Speciation Unlocks Alternative Pathways for the Reactions of Alkyl Halides with dppf-Nickel(0). <i>ACS Catalysis</i> , <b>2020</b> , 10, 10717-10725	13.1	9
19	Mechanism of the Transmetalation of Organosilanes to Gold. <i>ChemistryOpen</i> , <b>2016</b> , 5, 60-4	2.3	9

18	Metallate Complexes of the Late Transition Metals: Organometallic Chemistry and Catalysis. <i>Advances in Organometallic Chemistry</i> , <b>2018</b> , 283-327	3.8	8
17	Pyrrolo[3,2,1-ij]quinolin-4-one and Pyrrolo[3,2,1-ij]quinolin-6-one. <i>Synthesis</i> , <b>2009</b> , 2009, 2171-2174	2.9	8
16	Insights into the Decomposition of Olefin Metathesis Precatalysts. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 9141-9145	3.9	7
15	Mechanistic insight into organic and industrial transformations: general discussion. <i>Faraday Discussions</i> , <b>2019</b> , 220, 282-316	3.6	7
14	Towards microfluidic reactors for in situ synchrotron infrared studies. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 024101	1.7	6
13	Metabolomic Profiling of the Immune Stimulatory Effect of Eicosenoids on PMA-Differentiated THP-1 Cells. <i>Vaccines</i> , <b>2019</b> , 7,	5.3	5
12	A quantitative empirical directing group scale for selectivity in iridium-catalysed hydrogen isotope exchange reactions. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 7249-7255	5.5	4
11	An N-Heterocyclic Carbene with a Saturated Backbone and Spatially-Defined Steric Impact. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2019</b> , 645, 105-112	1.3	4
10	The Effect of Added Ligands on the Reactions of [Ni(COD)(dppf)] with Alkyl Halides: Halide Abstraction May Be Reversible. <i>Organometallics</i> , <b>2021</b> , 40, 1997-2007	3.8	3
9	Lewis Acid-Promoted Oxidative Addition at a [Ni (diphosphine) ] Complex: The Critical Role of a Secondary Coordination Sphere. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 16021-16027	4.8	3
8	Synthesis of Gold(I)-Trifluoromethyl Complexes and their Role in Generating Spectroscopic Evidence for a Gold(I)-Difluorocarbene Species. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 8461-8467	4.8	2
7	Letter to the Editor concerning: Carbon-Heteroatom Coupling Using Pd-BEPPSI Complexes by Valente et al.. <i>Organic Process Research and Development</i> , <b>2014</b> , 18, 456-457	3.9	1
6	Competitive gold/nickel transmetalation. <i>Chemical Communications</i> , <b>2021</b> ,	5.8	1
5	The Influence of Structure on Reactivity in Alkene Metathesis. <i>Advances in Physical Organic Chemistry</i> , <b>2014</b> , 81-188	0.3	0
4	Inhibition of (dppf)nickel-catalysed Suzuki-Miyaura cross-coupling reactions by halo-N-heterocycles. <i>Chemical Science</i> , <b>2021</b> , 12, 14074-14082	9.4	0
3	Are rate and selectivity correlated in iridium-catalysed hydrogen isotope exchange reactions?. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 5498-5504	5.5	0
2	Highlights from the 54th EUCHEM Bogenstock Conference on Stereochemistry, Brunnen, Switzerland, May 2019. <i>Chemical Communications</i> , <b>2019</b> , 55, 10043-10046	5.8	
1	Operando Neutron Scattering: Following Reactions in Real Time Using Neutrons. <i>Topics in Catalysis</i> , <b>2021</b> , 64, 693-698	2.3	

