Neal P Mankad

List of Publications by Year
in descending order

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86	5,717	61945	76872
papers	citations	43 h-index	74 g-index

101	101	101	4635
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent advances in cooperative activation of CO₂and N₂O by bimetallic coordination complexes or binuclear reaction pathways. Dalton Transactions, 2022, 51, 6129-6147.	1.6	23
2	Cooperative Activation of CO₂ and Epoxide by a Heterobinuclear Alâ€“Fe Complex via Radical Pair Mechanisms. Journal of the American Chemical Society, 2022, 144, 3210-3221.	6.6	36
3	Preparation of Potassium Acyltrifluoroborates (KATs) from Carboxylic Acids by Copperâ€Catalyzed Borylation of Mixed Anhydrides**. Angewandte Chemie, 2022, 134, .	1.6	3
4	Preparation of Potassium Acyltrifluoroborates (KATs) from Carboxylic Acids by Copperâ€Catalyzed Borylation of Mixed Anhydrides**. Angewandte Chemie - International Edition, 2022, 61, e202114513.	7.2	10
5	Diverse Thermal and Photochemical Reactivity of an Alâ€“Fe Bonded Heterobimetallic Complex. Organometallics, 2022, 41, 1917-1921.	1.1	9
6	Oneâ€Step Synthesis of Acylboron Compounds via Copperâ€Catalyzed Carbonylative Borylation of Alkyl Halides**. Angewandte Chemie, 2021, 133, 2122-2126.	1.6	8
7	Oneâ€Step Synthesis of Acylboron Compounds via Copperâ€Catalyzed Carbonylative Borylation of Alkyl Halides**. Angewandte Chemie - International Edition, 2021, 60, 2094-2098.	7.2	27
8	Coordination chemistry of the CuZ site in nitrous oxide reductase and its synthetic mimics. Coordination Chemistry Reviews, 2021, 429, 213718.	9.5	13
9	Biomimetic Studies of the Mo/Cu Active Site of CO Dehydrogenase. , 2021, , 772-789.		4
10	Learning from Nature: Bio-inspired Heterobinuclear Electrocatalysts for Selective CO2 Reduction. Trends in Chemistry, 2021, 3, 159-160.	4.4	9
11	Copper-Catalyzed Carbonylative Coupling of Alkyl Halides. Accounts of Chemical Research, 2021, 54, 2261-2274.	7.6	84
12	Cobalt-Catalyzed (E)-Î²-Selective Hydrogermylation of Terminal Alkynes. Organic Letters, 2021, 23, 3221-3226.	2.4	22
13	Synthesis and Characterization of Heteromultinuclear Ni/M Clusters (M = Fe, Ru, W) Including a Paramagnetic (NHC)Niâ€“WCp*(CO)3 Heterobinuclear Complex. Organometallics, 2021, 40, 2123-2132.	1.1	4
14	Catalytic Reactions by Heterobimetallic Carbonyl Complexes with Polar Metalâ€“Metal Interactions. Synthesis, 2021, 53, 1409-1422.	1.2	12
15	N₂O Reductase Activity of a [Cu₄S] Cluster in the 4Cu^I Redox State Modulated by Hydrogen Bond Donors and Proton Relays in the Secondary Coordination Sphere. Angewandte Chemie - International Edition, 2020, 59, 627-631.	7.2	22
16	N 2 O Reductase Activity of a [Cu 4 S] Cluster in the 4Cu I Redox State Modulated by Hydrogen Bond Donors and Proton Relays in the Secondary Coordination Sphere. Angewandte Chemie, 2020, 132, 637-641.	1.6	3
17	Cu-Catalyzed Carbonylative Silylation of Alkyl Halides: Efficient Access to Acylsilanes. Journal of the American Chemical Society, 2020, 142, 80-84.	6.6	43
18	Pursuit of Câ€“H Borylation Reactions with Non-Precious Heterobimetallic Catalysts: Hypothesis-Driven Variations on a Design Theme. Synlett, 2020, 31, 125-132.	1.0	9

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19	New talent: Americas, 2020. Dalton Transactions, 2020, 49, 15944-15944.	1.6	0
20	Câ€“C and Câ€“X coupling reactions of unactivated alkyl electrophiles using copper catalysis. Chemical Society Reviews, 2020, 49, 8036-8064.	18.7	132
21	Heterometallic Cu₂Fe and Zn₂Fe₂ Complexes Derived from [Fe(CO)₄]^{2â€“} and Cu/Fe Bifunctional N₂O Activation Reactivity. Organometallics, 2020, 39, 2043-2046.	1.1	8
22	A W/Cu Synthetic Model for the Mo/Cu Cofactor of Aerobic CODH Indicates That Biochemical CO Oxidation Requires a Frustrated Lewis Acid/Base Pair. Journal of the American Chemical Society, 2020, 142, 12635-12642.	6.6	29
23	Probing the electronic and mechanistic roles of the Î¼₄-sulfur atom in a synthetic Cu_Z model system. Chemical Science, 2020, 11, 3441-3447.	3.7	8
24	Cooperative Heterobimetallic Substrate Activation Enhances Catalytic Activity and Amplifies Regioselectivity in 1,4-Hydroboration of Pyridines. ACS Catalysis, 2020, 10, 3670-3675.	5.5	47
25	Impact of Electronic and Steric Changes of Ligands on the Assembly, Stability, and Redox Activity of Cu₄(Î¼₄-S) Model Compounds of the Cu_Z Active Site of Nitrous Oxide Reductase (N₂OR). Inorganic Chemistry, 2020, 59, 6496-6507.	1.9	13
26	Heterobimetallic Control of Regioselectivity in Alkyne Hydrostannylation: Divergent Syntheses of Î±- and (E)-Î²-Vinylstannanes via Cooperative Snâ€“H Bond Activation. Journal of the American Chemical Society, 2019, 141, 3710-3716.	6.6	35
27	Metal-catalysed radical carbonylation reactions. Catalysis Science and Technology, 2019, 9, 3603-3613.	2.1	105
28	Dynamically Bifurcating Hydride Transfer Mechanism and Origin of Inverse Isotope Effect for Heterodinuclear AgRu-Catalyzed Alkyne Semihydrogenation. ACS Catalysis, 2019, 9, 2657-2663.	5.5	28
29	Synergistic Copper-Catalyzed Reductive Aminocarbonylation of Alkyl Iodides with Nitroarenes. Organic Letters, 2019, 21, 10106-10110.	2.4	48
30	Mixed phosphine/carbonyl derivatives of heterobimetallic copperâ€“iron and copperâ€“tungsten catalysts. Polyhedron, 2019, 157, 116-123.	1.0	6
31	Cuâ€Catalyzed Hydroxymethylation of Unactivated Alkyl Iodides with CO To Provide Oneâ€Carbonâ€Extended Alcohols. Angewandte Chemie - International Edition, 2018, 57, 5867-5870.	7.2	46
32	Synthesis of Allylic Alcohols via Cu-Catalyzed Hydrocarbonylative Coupling of Alkynes with Alkyl Halides. Journal of the American Chemical Society, 2018, 140, 1159-1164.	6.6	53
33	Oxidation of a [Cu₂S] complex by N₂O and CO₂: insights into a role of tetranuclearity in the Cu_Z site of nitrous oxide reductase. Chemical Communications, 2018, 54, 1097-1100.	2.2	26
34	Diverse bimetallic mechanisms emerging from transition metal Lewis acid/base pairs: development of co-catalysis with metal carbenes and metal carbonyl anions. Chemical Communications, 2018, 54, 1291-1302.	2.2	58
35	Cuâ€Catalyzed Hydroxymethylation of Unactivated Alkyl Iodides with CO To Provide Oneâ€Carbonâ€Extended Alcohols. Angewandte Chemie, 2018, 130, 5969-5972.	1.6	13
36	Copperâ€Catalyzed Borocarbonylative Coupling of Internal Alkynes with Unactivated Alkyl Halides: Modular Synthesis of Tetrasubstituted Î²â€Borylenones. Angewandte Chemie - International Edition, 2018, 57, 10328-10332.	7.2	62

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37	Multinuclear Cu(I) Clusters Featuring a New Triply Bridging Coordination Mode of Phosphaamidinate Ligands. Inorganic Chemistry, 2018, 57, 9439-9445.	1.9	7
38	Copperâ€Catalyzed Borocarbonylative Coupling of Internal Alkynes with Unactivated Alkyl Halides: Modular Synthesis of Tetrasubstituted Î²â€Borylenones. Angewandte Chemie, 2018, 130, 10485-10489.	1.6	14
39	Heterobimetallic H₂ Addition and Alkene/Alkane Elimination Reactions Related to the Mechanism of E-Selective Alkyne Semihydrogenation. Organometallics, 2017, 36, 220-227.	1.1	49
40	Bimetallic catalysis for Câ€“C and Câ€“X coupling reactions. Chemical Science, 2017, 8, 1705-1718.	3.7	307
41	Dehydrogenative Borylation and Silylation of Styrenes Catalyzed by Copper-Carbenes. ACS Catalysis, 2017, 7, 146-149.	5.5	45
42	Cu/Mn bimetallic catalysis enables carbonylative Suzukiâ€“Miyaura coupling with unactivated alkyl electrophiles. Chemical Science, 2017, 8, 4750-4755.	3.7	52
43	Fundamental organometallic chemistry under bimetallic influence: driving Î²-hydride elimination and diverting migratory insertion at Cu and Ni. Dalton Transactions, 2017, 46, 5518-5521.	1.6	23
44	Cooperative Strategies for Catalytic Hydrogenation of Unsaturated Hydrocarbons. ACS Catalysis, 2017, 7, 6110-6119.	5.5	64
45	Cu-Catalyzed Hydrocarbonylative Câ€“C Coupling of Terminal Alkynes with Alkyl Iodides. Journal of the American Chemical Society, 2017, 139, 10200-10203.	6.6	81
46	Selectivity Effects in Bimetallic Catalysis. Chemistry - A European Journal, 2016, 22, 5822-5829.	1.7	158
47	A One-Hole Cu₄S Cluster with N₂O Reductase Activity: A Structural and Functional Model for Cu_Z*. Journal of the American Chemical Society, 2016, 138, 13107-13110.	6.6	33
48	Improvements to the Practical Usability of the â€œCrystalline Spongeâ€•Method for Organic Structure Determination. Organic Letters, 2016, 18, 6112-6115.	2.4	26
49	Extremely efficient hydroboration of ketones and aldehydes by copper carbene catalysis. Chemical Communications, 2016, 52, 3844-3846.	2.2	98
50	CHAPTER 10. Model Compounds of Copper-Containing Enzymes Involved in Bacterial Denitrification. 2-Oxoglutarate-Dependent Oxygenases, 2016, , 225-251.	0.8	3
51	A Heterobimetallic Mechanism for Câ€“H Borylation Elucidated from Experimental and Computational Data. ACS Catalysis, 2015, 5, 3689-3699.	5.5	61
52	Catalyst Control of Selectivity in CO₂ Reduction Using a Tunable Heterobimetallic Effect. Journal of the American Chemical Society, 2015, 137, 10898-10901.	6.6	82
53	Photochemical Heck benzylation of styrenes catalyzed by Na[FeCp(CO)2]. Journal of Organometallic Chemistry, 2015, 793, 171-174.	0.8	12
54	Thermal Câ€“H borylation using a CO-free iron boryl complex. Chemical Communications, 2015, 51, 5379-5382.	2.2	35

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55	Experimental and Computational Characterization of the Transition State for Câ€“X Bimetallic Oxidative Addition at a Cuâ€“Fe Reaction Center. Organometallics, 2015, 34, 3857-3864.	1.1	42
56	A data-intensive re-evaluation of semibridging carbonyl ligands. Dalton Transactions, 2015, 44, 17007-17014.	1.6	27
57	A Cu₄S model for the nitrous oxide reductase active sites supported only by nitrogen ligands. Chemical Communications, 2015, 51, 11860-11863.	2.2	29
58	E-Selective Semi-Hydrogenation of Alkynes by Heterobimetallic Catalysis. Journal of the American Chemical Society, 2015, 137, 14598-14601.	6.6	158
59	Non-Precious Metal Catalysts for Câ€“H Borylation Enabled by Metalâ€“Metal Cooperativity. Synlett, 2014, 25, 1197-1201.	1.0	47
60	Synthesis and Characterization of Heterobimetallic Complexes with Direct Cuâ€“M Bonds (M = Cr, Mn,) Tj ETQq0 0 0 rgBT /Overlock 10 Discovery. Inorganic Chemistry, 2014, 53, 11307-11315.	1.9	57
61	trans-Tetracarbonylbis(triphenylphosphane-ÎºP)molybdenum(0). Acta Crystallographica Section E: Structure Reports Online, 2014, 70, m36-m36.	0.2	1
62	Application of Fundamental Organometallic Chemistry to the Development of a Goldâ€Catalyzed Synthesis of Sulfinate Derivatives. Angewandte Chemie - International Edition, 2014, 53, 4404-4407.	7.2	231
63	Experimental determination of redox cooperativity and electronic structures in catalytically active Cuâ€“Fe and Znâ€“Fe heterobimetallic complexes. Dalton Transactions, 2014, 43, 13661.	1.6	41
64	Assembly, Structure, and Reactivity of Cu₄S and Cu₃S Models for the Nitrous Oxide Reductase Active Site, Cu_Z*. Inorganic Chemistry, 2014, 53, 10611-10619.	1.9	39
65	Small Molecule Activation Chemistry of Cuâ€“Fe Heterobimetallic Complexes Toward CS2 and N2O. Inorganic Chemistry, 2014, 53, 7730-7737.	1.9	41
66	Base Metal Catalysts for Photochemical Câ€“H Borylation That Utilize Metalâ€“Metal Cooperativity. Journal of the American Chemical Society, 2013, 135, 17258-17261.	6.6	235
67	Heterobimetallic Complexes with Polar, Unsupported Cuâ€“Fe and Znâ€“Fe Bonds Stabilized by N-Heterocyclic Carbenes. Organometallics, 2013, 32, 3986-3992.	1.1	52
68	C(sp³)â€“F reductive elimination from alkylgold(<scp>iii</scp>) fluoride complexes. Chemical Science, 2012, 3, 72-76.	3.7	141
69	Dinitrogen Complexes of Sulfur-Ligated Iron. Journal of the American Chemical Society, 2011, 133, 8440-8443.	6.6	77
70	Two Metals Are Better Than One in the Gold Catalyzed Oxidative Heteroarylation of Alkenes. Journal of the American Chemical Society, 2011, 133, 14293-14300.	6.6	208
71	Triggering N2 uptake via redox-induced expulsion of coordinated NH3 and N2 silylation at trigonal bipyramidal iron. Nature Chemistry, 2010, 2, 558-565.	6.6	285
72	Four-Coordinate, Trigonal Pyramidal Pt(II) and Pd(II) Complexes. Journal of the American Chemical Society, 2010, 132, 13975-13977.	6.6	46

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73	Catalytic Nâ^'N Coupling of Aryl Azides To Yield Azoarenes via Trigonal Bipyramid Ironâ^'Nitrene Intermediates. Journal of the American Chemical Society, 2010, 132, 4083-4085.	6.6	108
74	Câ^'C Coupling Reactivity of an Alkylgold(III) Fluoride Complex with Arylboronic Acids. Journal of the American Chemical Society, 2010, 132, 12859-12861.	6.6	145
75	Multifrequency EPR Studies of [Cu^{1.5}Cu^{1.5}]⁺ for Cu₂(Î¼-NR₂)₂ and Cu₂(Î¼-PR₂)₂ Diamond Cores. Inorganic Chemistry, 2009, 48, 7026-7032.	1.9	16
76	Three-Coordinate Copper(I) Amido and Aminyl Radical Complexes. Journal of the American Chemical Society, 2009, 131, 3878-3880.	6.6	104
77	Dinitrogen Complexes Supported by Tris(phosphino)silyl Ligands. Inorganic Chemistry, 2009, 48, 2507-2517.	1.9	139
78	Diazoalkanes react with a bis(phosphino)borate copper(i) source to generate [Ph2BPtBu2]Cu(Î·1-N2CR2), [Ph2BPtBu2]Cu(CPh2), and [Ph2BPtBu2]Cuâ€"N(CPh2)(NCPh2). Chemical Communications, 2008, , 1061.	2.2	47
79	Probing the Electronic Structures of [Cu₂(Î¼-XR₂)]ⁿ⁺ Diamond Cores as a Function of the Bridging X Atom (X = N or P) and Charge (n = 0, 1, 2). Journal of the American Chemical Society, 2008, 130, 3478-3485.	6.6	87
80	Terminal Feïƒ¿N2 and Feïâ‹…â‹…â‹…Hïƒ¿C Interactions Supported by Tris(phosphino)silyl Ligands. Angewandte Chemie - International Edition, 2007, 46, 5768-5771.	7.2	157
81	Characterization of the Terminal Iron(IV) Imides {[PhBPtBu2(pzâ€˜)]FeIVâ‹®NAd}+. Journal of the American Chemical Society, 2006, 128, 4956-4957.	6.6	134
82	Palladium-Catalyzed Cross-Coupling of Pyrrole Anions with Aryl Chlorides, Bromides, and Iodides.. ChemInform, 2005, 36, no.	0.1	0
83	Structural Snapshots of a Flexible Cu2P2Core that Accommodates the Oxidation States CuICuI, Cu1.5Cu1.5, and CuIICuII. Journal of the American Chemical Society, 2005, 127, 16032-16033.	6.6	94
84	Palladium-Catalyzed Cross-Coupling of Pyrrole Anions with Aryl Chlorides, Bromides, and Iodides. Organic Letters, 2004, 6, 3981-3983.	2.4	167
85	Synthesis, Structure, and Alkyne Reactivity of a Dimeric (Carbene)copper(I) Hydride. Organometallics, 2004, 23, 3369-3371.	1.1	314
86	Synthesis, Structure, and CO2Reactivity of a Two-Coordinate (Carbene)copper(I) Methyl Complex. Organometallics, 2004, 23, 1191-1193.	1.1	162