

# Lisa McElwee-White

## List of Publications by Year in descending order

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161  
papers

3,294  
citations

136885

32  
h-index

223716

46  
g-index

177  
all docs

177  
docs citations

177  
times ranked

2592  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition Metal-Catalyzed Oxidative Carbonylation of Amines to Ureas. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 4453-4465.	1.2	128
2	Formylation of Amines. <i>Molecules</i> , 2014, 19, 7689-7713.	1.7	124
3	Design of precursors for the CVD of inorganic thin films. <i>Dalton Transactions</i> , 2006, , 5327.	1.6	83
4	W(CO) <sub>6</sub> -Catalyzed Oxidative Carbonylation of Primary Amines to N,N'-Disubstituted Ureas in Single or Biphasic Solvent Systems. Optimization and Functional Group Compatibility Studies. <i>Journal of Organic Chemistry</i> , 2000, 65, 5216-5222.	1.7	79
5	Ligand-centered reactivity of organometallic radicals. <i>Coordination Chemistry Reviews</i> , 2000, 206-207, 469-491.	9.5	74
6	Cleavage of ruthenium and osmium porphyrin dimers: formation of organometallic ruthenium porphyrin complexes and highly reduced metalloporphyrin species. <i>Journal of the American Chemical Society</i> , 1985, 107, 4570-4571.	6.6	73
7	Reactivity of zero-valent metalloporphyrin dianions toward organic electrophiles. <i>Journal of the American Chemical Society</i> , 1985, 107, 6110-6111.	6.6	67
8	Catalytic Oxidative Carbonylation of Primary and Secondary Diamines to Cyclic Ureas. Optimization and Substituent Studies. <i>Journal of Organic Chemistry</i> , 2002, 67, 4086-4092.	1.7	62
9	Tungsten Allylimido Complexes Cl <sub>4</sub> (RCN)W(NC <sub>3</sub> H <sub>5</sub> ) as Single-Source CVD Precursors for WN <sub>x</sub> CyThin Films. Correlation of Precursor Fragmentation to Film Properties. <i>Journal of the American Chemical Society</i> , 2005, 127, 7825-7833.	6.6	62
10	Ir-Ta N as a bilayer diffusion barrier for advanced Cu interconnects. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	62
11	Surface Plasmon Mediated Chemical Solution Deposition of Gold Nanoparticles on a Nanostructured Silver Surface at Room Temperature. <i>Journal of the American Chemical Society</i> , 2013, 135, 38-41.	6.6	60
12	MOCVD of tungsten nitride (WN <sub>x</sub> ) thin films from the imido complex Cl <sub>4</sub> (CH <sub>3</sub> CN)W(NiPr). <i>Journal of Crystal Growth</i> , 2003, 249, 262-274.	0.7	54
13	Synthesis and Structural Investigation of Tungsten Imido Amidinate and Guanidinate Complexes. <i>Inorganic Chemistry</i> , 2006, 45, 263-268.	1.9	53
14	Photooxidation of the molybdenum and tungsten carbynes (.eta. <sup>5</sup> -C <sub>5</sub> H <sub>5</sub> )L <sub>2</sub> M.tplbond.CR [L = P(OMe) <sub>3</sub> , CO and R = Ph, Me, c-C <sub>3</sub> H <sub>5</sub> ]. <i>Journal of the American Chemical Society</i> , 1991, 113, 2947-2954.	6.6	47
15	Growth of ZrC thin films by aerosol-assisted MOCVD. <i>Journal of Crystal Growth</i> , 2007, 304, 324-332.	0.7	44
16	Carbonylation of Amines with a Tungsten(IV) Carbonyl Complex. <i>Organometallics</i> , 1997, 16, 3863-3866.	1.1	43
17	Understanding the electron-stimulated surface reactions of organometallic complexes to enable design of precursors for electron beam-induced deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 1631-1644.	1.1	42
18	Remarkable oxygen affinity of a mixed valence dicobalt cofacial porphyrin Co <sup>III</sup> Co <sup>II</sup> FTF <sub>4</sub> . <i>Journal of the American Chemical Society</i> , 1986, 108, 533-535.	6.6	41

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19	Bimetallic Pt/Ru Complexes as Catalysts for the Electrooxidation of Methanol. <i>Inorganic Chemistry</i> , 2000, 39, 3942-3944.	1.9	40
20	Preparation of Hydantoins by Catalytic Oxidative Carbonylation of $\alpha$ -Amino Amides. <i>Journal of Organic Chemistry</i> , 2009, 74, 8862-8865.	1.7	40
21	Catalytic Oxidative Carbonylation of Primary and Secondary $\alpha,\omega$ -Diamines to Cyclic Ureas. <i>Organic Letters</i> , 1999, 1, 961-964.	2.4	39
22	Catalytic oxidative carbonylation of aliphatic secondary amines to tetrasubstituted ureas. <i>Journal of Molecular Catalysis A</i> , 2000, 159, 11-17.	4.8	39
23	Properties of $\text{W}\alpha\text{Ge}\alpha\text{N}$ as a diffusion barrier material for Cu. <i>Applied Physics Letters</i> , 2005, 87, 111902.	1.5	39
24	Concerning the viability of 1,4,6,9-spiro[4.4]nonatetrayl as a reactive intermediate. New biradical-to-biradical rearrangements. <i>Journal of the American Chemical Society</i> , 1984, 106, 3466-3474.	6.6	38
25	Radical mechanism for the decomposition of diethyl[2,3,7,8,12,13,17,18-octaethylporphyrinato(2-)]ruthenium. Determination of the metal-carbon bond dissociation energy. <i>Journal of the American Chemical Society</i> , 1986, 108, 1332-1333.	6.6	38
26	Synthesis and Electrochemical Oxidation of Bridged Ruthenium/Platinum Complexes of 1,10-Phenanthroline-5,6-diolate. <i>Inorganic Chemistry</i> , 1997, 36, 5655-5657.	1.9	36
27	$\text{Cl}_4(\text{PhCN})\text{W}(\text{NPh})$ as a single-source MOCVD precursor for deposition of tungsten nitride ( $\text{WN}_x$ ) thin films. <i>Journal of Organometallic Chemistry</i> , 2003, 684, 338-350.	0.8	36
28	Electron Induced Surface Reactions of <i>cis</i> - $\text{Pt}(\text{CO})_2\text{Cl}_2$ : A Route to Focused Electron Beam Induced Deposition of Pure Pt Nanostructures. <i>Journal of the American Chemical Society</i> , 2016, 138, 9172-9182.	6.6	36
29	Homogeneous Decomposition of Aryl- and Alkylimido Precursors for the Chemical Vapor Deposition of Tungsten Nitride: A Combined Density Functional Theory and Experimental Study. <i>Journal of the American Chemical Society</i> , 2006, 128, 13781-13788.	6.6	34
30	Iron and Ruthenium Heterobimetallic Carbonyl Complexes as Electrocatalysts for Alcohol Oxidation: Electrochemical and Mechanistic Studies. <i>Organometallics</i> , 2011, 30, 5568-5577.	1.1	34
31	Photochemical azo metathesis by tungsten carbene $(\text{OC})_5\text{W}:\text{C}(\text{OCH}_3)\text{CH}_3$ . Isolation of a zwitterionic intermediate. <i>Journal of the American Chemical Society</i> , 1988, 110, 8700-8701.	6.6	33
32	Trapping of the low-valent nitrene complex $(\text{CO})_5\text{W}:\text{NPh}$ with triphenylphosphine. Formation of the phenylnitrene transfer product $\text{PhN} = \text{PPh}_3$ . <i>Journal of the American Chemical Society</i> , 1989, 111, 8007-8009.	6.6	33
33	Oxidative Carbonylation of Primary Amines to Ureas Using Tungsten Carbonyl Catalysts 1. <i>Organometallics</i> , 1998, 17, 4037-4041.	1.1	32
34	Evidence for ambiphilic behavior in $(\text{CO})_5\text{W}:\text{NPh}$ . Conversion of carbonyl compounds to N-phenyl imines via metathesis. <i>Journal of the American Chemical Society</i> , 1991, 113, 4871-4876.	6.6	31
35	Effect of $\text{NH}_3$ on Film Properties of MOCVD Tungsten Nitride from $\text{Cl}_4(\text{CH}_3)_t\text{W}(\text{C}_6\text{H}_5)_{3-t}$ . <i>Journal of Applied Physics</i> , 2007, 102, 044301.	1.3	31
36	Equilibrium analysis of zirconium carbide CVD growth. <i>Journal of Crystal Growth</i> , 2007, 307, 302-308.	0.7	29

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37	Electron-Induced Surface Reactions of $\text{I}^{\text{-3}}$ -Allyl Ruthenium Tricarbonyl Bromide [ $\text{I}^{\text{-3}}\text{-C}_3\text{H}_5\text{Ru}(\text{CO})_3\text{Br}$ ]: Contrasting the Behavior of Different Ligands. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15349-15359.	1.5	28
38	Mechanism-based design of precursors for focused electron beam-induced deposition. <i>MRS Communications</i> , 2018, 8, 343-357.	0.8	28
39	Metathesis and diaziridination reactions of $(\text{CO})_5\text{W}=\text{C}(\text{OMe})\text{-p-XC}_6\text{H}_4$ with cis-azobenzene. Electronic and solvent effects. <i>Journal of the American Chemical Society</i> , 1992, 114, 5153-5160.	6.6	27
40	Properties of Ta $\text{-Ge}$ (O)N as a diffusion barrier for Cu on Si. <i>Applied Physics Letters</i> , 2007, 90, 051913.	1.5	27
41	Reactions of acyl-substituted molybdenum carbyne complexes under photooxidative and thermal conditions. Formation of cyclopentenones and oxymetallacycles. <i>Organometallics</i> , 1992, 11, 3571-3578.	1.1	24
42	Selective electrochemical oxidation of methanol to dimethoxymethane using Ru/Sn catalysts. <i>Journal of Molecular Catalysis A</i> , 2005, 227, 113-117.	4.8	24
43	Catalytic Oxidative Carbonylation of Arylamines to Ureas with $\text{W}(\text{CO})_6/\text{I}_2$ as Catalyst. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 6261-6268.	1.2	24
44	Tungsten Nitrido Complexes as Precursors for Low Temperature Chemical Vapor Deposition of $\text{WN}_x\text{C}_y$ Films as Diffusion Barriers for Cu Metallization. <i>Journal of the American Chemical Society</i> , 2014, 136, 1650-1662.	6.6	24
45	Photophysics of Tungsten and Molybdenum Arylcarbyne Complexes. Observation of the Lowest Excited State by Laser Flash Photolysis. <i>Inorganic Chemistry</i> , 1996, 35, 7769-7775.	1.9	23
46	Electrochemical Oxidation of Methanol with Ru/Pd, Ru/Pt, and Ru/Au Heterobimetallic Complexes. <i>Organometallics</i> , 2002, 21, 711-716.	1.1	23
47	Ge $\text{-HfN}_x$ diffusion barrier for Cu metallization on Si. <i>Applied Physics Letters</i> , 2006, 89, 231914.	1.5	23
48	Catalytic Carbonylation of Functionalized Diamines: Application to the Core Structure of DMP 323 and DMP 450. <i>Journal of Organic Chemistry</i> , 2003, 68, 1615-1617.	1.7	22
49	Heterobimetallic complexes with dpmm-bridged Ru/Pd, Ru/Pt, Ru/Au and Ru/Cu centers. <i>Dalton Transactions</i> , 2003, , 4288.	1.6	22
50	Selective Catalytic Oxidative Carbonylation of Amino Alcohols to Ureas. <i>Journal of Organic Chemistry</i> , 2006, 71, 734-738.	1.7	22
51	Deposition of $\text{WN}_x\text{C}_y$ thin films for diffusion barrier application using the dimethylhydrazido ( $2\text{-}^{\text{~}}$ ) tungsten complex $(\text{CH}_3\text{CN})\text{Cl}_4\text{W}(\text{NNMe}_2)$ . <i>Thin Solid Films</i> , 2009, 517, 6038-6045.	0.8	22
52	Carbonylation of functionalized diamine diols to cyclic ureas: application to derivatives of DMP 450. <i>Tetrahedron</i> , 2011, 67, 3976-3983.	1.0	22
53	Oxidative carbonylation of amines to formamides using $\text{NaIO}_4$ . <i>Chemical Communications</i> , 2012, 48, 11310.	2.2	22
54	Synthesis of $\text{WN}(\text{NMe}_2)_3$ as a Precursor for the Deposition of $\text{WN}_x\text{C}_y$ Nanospheres. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 4579-4584.	1.0	22

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55	Theoretical studies on 1,4,6,9-spiro[4.4]nonatetrayl, an organic tetraradical. <i>Journal of the American Chemical Society</i> , 1984, 106, 3461-3466.	6.6	21
56	Synthesis and Characterization of Diorganohydrazido(2 <sup>-</sup> ) Tungsten Complexes. <i>Inorganic Chemistry</i> , 2008, 47, 4457-4462.	1.9	21
57	Computational Study of the Gas Phase Reactions of Isopropylimido and Allylimido Tungsten Precursors for Chemical Vapor Deposition of Tungsten Carbonitride Films: Implications for the Choice of Carrier Gas. <i>Chemistry of Materials</i> , 2008, 20, 7246-7251.	3.2	21
58	Electron induced surface reactions of (I <sup>5+</sup> -C <sub>5</sub> H <sub>5</sub> )Fe(CO) <sub>2</sub> Mn(CO) <sub>5</sub> , a potential heterobimetallic precursor for focused electron beam induced deposition (FEBID). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7862-7874.	1.3	21
59	Stabilization of zero-valent hydrazido complexes by phosphine ligands. Crystal structure of fac-(CO) <sub>3</sub> (DPPE)W:NNMe <sub>2</sub> , a nitrene analogue to Fischer carbenes. <i>Journal of the American Chemical Society</i> , 1992, 114, 7041-7047.	6.6	20
60	Regioselective and stereoselective formation of cyclopentenones upon photooxidation of cyclopropyl carbyne complexes. <i>Journal of the American Chemical Society</i> , 1993, 115, 10056-10065.	6.6	20
61	Mechanism-Based Design of Precursors for MOCVD. <i>ECS Transactions</i> , 2009, 25, 161-171.	0.3	19
62	NaIO <sub>4</sub> -oxidized carbonylation of amines to ureas. <i>Chemical Communications</i> , 2009, , 947.	2.2	19
63	Aerosol-Assisted Chemical Vapor Deposition of Tungsten Oxide Films and Nanorods from Oxo Tungsten(VI) Fluoroalkoxide Precursors. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 2660-2667.	4.0	19
64	Photooxidation of (η <sup>5</sup> -C <sub>5</sub> H <sub>5</sub> )[P(OMe) <sub>3</sub> ] <sub>2</sub> Mo≡CPh in CHCl <sub>3</sub> . Intermediacy of a 17-electron cationic metal carbyne. <i>Journal of the American Chemical Society</i> , 1988, 110, 7535-7536.	6.6	18
65	Tungsten nitride thin films deposited by MOCVD: sources of carbon and effects on film structure and stoichiometry. <i>Journal of Crystal Growth</i> , 2004, 261, 280-288.	0.7	18
66	Synthesis and Electrochemistry of Heterobimetallic Ruthenium/Platinum and Molybdenum/Platinum Complexes. <i>Inorganic Chemistry</i> , 1996, 35, 916-922.	1.9	17
67	Electrochemical oxidation of methanol using dpmm-bridged Ru/Pd, Ru/Pt and Ru/Au catalysts. <i>Dalton Transactions</i> , 2004, , 2352.	1.6	17
68	Evaluation of Multisite Polypyridyl Ligands as Platforms for the Synthesis of Rh/Zn, Rh/Pd, and Rh/Pt Heterometallic Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 5692-5701.	1.9	17
69	Low energy electron-induced decomposition of (I <sup>3+</sup> -C <sub>3</sub> H <sub>5</sub> )Ru(CO) <sub>3</sub> Br, a potential focused electron beam induced deposition precursor with a heteroleptic ligand set. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13264-13271.	1.3	17
70	Halide Effects on the Sublimation Temperature of X <sup>-</sup> Au <sup>+</sup> L Complexes: Implications for Their Use as Precursors in Vapor Phase Deposition Methods. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40998-41005.	4.0	17
71	Comparing postdeposition reactions of electrons and radicals with Pt nanostructures created by focused electron beam induced deposition. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 2410-2424.	1.5	17
72	Efficient NH <sub>3</sub> -based process to remove chlorine from electron beam deposited ruthenium produced from (I <sup>3+</sup> -C <sub>3</sub> H <sub>5</sub> )Ru(CO) <sub>3</sub> Cl. <i>Scientific Reports</i> , 2020, 10, 10901.	1.6	17

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73	Precursors for chemical vapor deposition of tungsten oxide and molybdenum oxide. <i>Coordination Chemistry Reviews</i> , 2020, 421, 213459.	9.5	17
74	Formation of Olefins Upon Oxidation of Molybdenum Alkyl Carbynes. <i>Organic Radical Reactivity in an Organometallic Radical Cation</i> . <i>Journal of the American Chemical Society</i> , 1995, 117, 6475-6482.	6.6	16
75	$\eta^5$ - $\eta^5$ -Disubstituted- $\eta^2$ -acylthioureas as modular ligands for deposition of transition metal sulfides. <i>Dalton Transactions</i> , 2018, 47, 2719-2726.	1.6	16
76	Focused Electron Beam-Induced Deposition and Post-Growth Purification Using the Heteroleptic Ru Complex $(\eta^3\text{-C}_3\text{H}_5)\text{Ru}(\text{CO})_3\text{Br}$ . <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 28164-28171.	4.0	16
77	Synthesis and Evaluation of Molybdenum Imido-Thiolato Complexes for the Aerosol-Assisted Chemical Vapor Deposition of Nitrogen-Doped Molybdenum Disulfide. <i>Organometallics</i> , 2020, 39, 956-966.	1.1	16
78	Rapid, multistep rearrangements of hydrocarbon triplet biradicals at 4 K. A possible example of hot molecule effects in frozen organic solvents. <i>Journal of the American Chemical Society</i> , 1988, 110, 552-560.	6.6	15
79	Formation of diaziridines by reaction of $(\text{CO})_5\text{W}:\text{C}(\text{OMe})\text{Ph}$ with electron-deficient azo compounds. <i>Organometallics</i> , 1991, 10, 1913-1916.	1.1	15
80	Tungsten(IV) Imido Complexes from Oxidation of a Protected Zero-Valent Nitrene Precursor. <i>Journal of the American Chemical Society</i> , 1994, 116, 7419-7420.	6.6	15
81	Electronic Interactions in Iron- and Ruthenium-Containing Heterobimetallic Complexes: A Structural and Spectroscopic Investigations. <i>Organometallics</i> , 2007, 26, 3085-3093.	1.1	15
82	Deposition of $\text{W}_x\text{C}_y$ Using the Allylimido Complexes $\text{Cl}_4(\text{RCN})\text{W}(\text{NC}_3\text{H}_5)$ : Effect of $\text{NH}_3$ on Film Properties. <i>Journal of the Electrochemical Society</i> , 2008, 155, H829.	1.3	15
83	Partially fluorinated oxo-alkoxide tungsten( $\eta^5$ ) complexes as precursors for deposition of $\text{WO}_x$ nanomaterials. <i>Dalton Transactions</i> , 2014, 43, 9226-9233.	1.6	15
84	Formation of cyclohexenones by oxidative cyclization of alkene-functionalized carbyne complexes. <i>Organometallics</i> , 1993, 12, 4493-4498.	1.1	14
85	Effect of Ligand Variation on the Site of Protonation in the Metal Carbynes $\text{CpL}_2\text{Mo}^+\text{CBu}$ and $\text{TpL}_2\text{Mo}^+\text{CBu}$ [ $\text{L} = \text{CO}, \text{P}(\text{OR})_3$ ]. <i>Organometallics</i> , 1999, 18, 2262-2266.	1.1	14
86	Photophysics and Photoredox Properties of the Tungsten Carbyne Complex $\text{Cp}\{\text{P}(\text{OPh})_3\}(\text{CO})\text{W}^+\text{CPh}$ . <i>Inorganic Chemistry</i> , 1999, 38, 3254-3257.	1.9	14
87	Deposition of $\text{W}_x\text{C}_y$ for diffusion barrier application using the imido guanidinato complex $\text{W}(\text{N}^i\text{Pr})\text{Cl}_3[\text{N}^i\text{PrNC}(\text{NMe}_2)\text{N}^i\text{Pr}]$ . <i>Journal of Vacuum Science &amp; Technology B</i> , 2008, 26, 1800.	1.3	14
88	Direct Observation of a Hydrogen Abstraction Product upon Photooxidation of a Tungsten Cyclohexenyl Carbyne Complex. <i>Journal of the American Chemical Society</i> , 1997, 119, 4551-4552.	6.6	13
89	Properties of reactively sputtered $\text{W}^+\text{N}$ thin film as a diffusion barrier for Cu metallization on Si. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 691-695.	1.1	13
90	Synthesis and evaluation of $\eta^5$ - $\eta^2$ -diketonate and $\eta^2$ -ketoesterate tungsten( $\eta^5$ ) oxo-alkoxide complexes as precursors for chemical vapor deposition of $\text{WO}_x$ thin films. <i>Dalton Transactions</i> , 2016, 45, 10897-10908.	1.6	13

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91	Aerosol-assisted chemical vapor deposition of WS <sub>2</sub> from the single source precursor WS <sub>2</sub> (S <sub>2</sub> CNEt <sub>2</sub> ) <sub>2</sub> . Chemical Communications, 2017, 53, 7728-7731.	2.2	13
92	Formation of 1,3-Diene Complexes upon Protonation of Cyclopropylcarbyne Complexes. Organometallics, 1994, 13, 1635-1640.	1.1	12
93	Comparative study of Hf <sub>Nx</sub> and Hfâ€“Geâ€“N copper diffusion barriers on Ge. Journal of Applied Physics, 2006, 100, 063532.	1.1	12
94	Chemical vapor deposition of WN <sub>x</sub> Cy using the tungsten piperidylhydrazido complex Cl <sub>4</sub> (CH <sub>3</sub> CN)W(N-pip): Deposition, characterization, and diffusion barrier evaluation. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 943-950.	0.9	12
95	Identifying and Rationalizing the Differing Surface Reactions of Low-Energy Electrons and Ions with an Organometallic Precursor. Journal of Physical Chemistry Letters, 2020, 11, 2006-2013.	2.1	12
96	Electron-Induced Reactions of Ru(CO) <sub>4</sub> <sub>2</sub> : Gas Phase, Surface, and Electron Beam-Induced Deposition. Journal of Physical Chemistry C, 2020, 124, 10593-10604.	1.5	12
97	Electrophilic reactions of zerovalent tungsten nitrene and hydrazido complexes with phosphines. Synthesis and structure of (CO) <sub>4</sub> W[PPh <sub>2</sub> CH <sub>2</sub> PPh <sub>2</sub> NNMe <sub>2</sub> -N,P]. Organometallics, 1993, 12, 2440-2444.	1.1	11
98	Organic Products from Oxidation of Metal Carbynes. Synlett, 1996, 1996, 806-814.	1.0	11
99	Electrochemical oxidation of methanol using alcohol-soluble Ru/Pt and Ru/Pd catalysts. Inorganica Chimica Acta, 2008, 361, 3237-3246.	1.2	11
100	Low energy electron-induced decomposition of (Î <sup>5</sup> -Cp)Fe(CO) <sub>2</sub> Mn(CO) <sub>5</sub> , a potential bimetallic precursor for focused electron beam induced deposition of alloy structures. Physical Chemistry Chemical Physics, 2018, 20, 5644-5656.	1.3	11
101	Electron beam-induced deposition of platinum from Pt(CO) <sub>2</sub> Cl <sub>2</sub> and Pt(CO) <sub>2</sub> Br <sub>2</sub> . Beilstein Journal of Nanotechnology, 2020, 11, 1789-1800.	1.5	11
102	Dioxoâ€“Fluoroalkoxide Tungsten(VI) Complexes for Growth of WO <sub>x</sub> Thin Films by Aerosol-Assisted Chemical Vapor Deposition. Inorganic Chemistry, 2015, 54, 7536-7547.	1.9	10
103	Surface Plasmon-Mediated Chemical Solution Deposition of Cu Nanoparticle Films. Journal of Physical Chemistry C, 2016, 120, 20775-20780.	1.5	10
104	Dissociation of the FEBID precursor <i>cis</i> -Pt(CO) <sub>2</sub> Cl <sub>2</sub> driven by low-energy electrons. Physical Chemistry Chemical Physics, 2020, 22, 6100-6108.	1.3	10
105	Symmetrical intermediates in C <sub>9</sub> H <sub>12</sub> biradical rearrangements. Possible intervention of an organic tetradical. Journal of the American Chemical Society, 1982, 104, 4722-4724.	6.6	9
106	Direct observation of the low-valent hydrazido complex (CO) <sub>5</sub> W:NNMe <sub>2</sub> , a nitrene analog of the heteroatom-stabilized Fischer carbenes. Organometallics, 1991, 10, 541-543.	1.1	9
107	Oxidation of the Zwitterion (CO) <sub>5</sub> WNPhNPhC(OMe)Ph with I <sub>2</sub> . Formation of Tungsten(IV) Imido Complexes and a Tungsten(VI) Metallacycle. Organometallics, 1996, 15, 424-428.	1.1	9
108	Preparation of biotin derivatives by catalytic oxidative carbonylation of diamines. Green Chemistry, 2005, 7, 451.	4.6	9

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109	Synthesis and Electronic Structure of Tetrakis( $\eta^3$ -phenylpropargyl)zirconium. <i>Organometallics</i> , 2010, 29, 5252-5256.	1.1	9
110	Photochemical CVD of Ru on functionalized self-assembled monolayers from organometallic precursors. <i>Journal of Chemical Physics</i> , 2017, 146, 052816.	1.2	9
111	Design, Synthesis, and Evaluation of $\text{CF}_3\text{AuCNR}$ Precursors for Focused Electron Beam-Induced Deposition of Gold. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 11976-11987.	4.0	9
112	Crystal Structure, Reactivity, and Photochemical Properties of the Tungsten(0) Zwitterionic Amido Complex $(\text{CO})_5\text{WNPhNPhC}(\text{OMe})\text{Ph}$ . <i>Organometallics</i> , 1996, 15, 4625-4631.	1.1	8
113	Solvent Control of Surface Plasmon-Mediated Chemical Deposition of Au Nanoparticles from Alkylgold Phosphine Complexes. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 13384-13394.	4.0	8
114	Dissociative ionization of the potential focused electron beam induced deposition precursor $\eta^3$ -allyl ruthenium(II) tricarbonyl bromide, a combined theoretical and experimental study. <i>European Physical Journal D</i> , 2019, 73, 1.	0.6	8
115	Dimerization of ethynylaniline to a quinoline derivative using a ruthenium/gold heterobimetallic catalyst. <i>Arkivoc</i> , 2010, 2010, 160-166.	0.3	8
116	Charged Particle-Induced Surface Reactions of Organometallic Complexes as a Guide to Precursor Design for Electron- and Ion-Induced Deposition of Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 48333-48348.	4.0	8
117	Formation of cyclopentenone upon photo-oxidation of the cyclopropyl ( $\eta^3$ -C <sub>3</sub> H <sub>5</sub> ) carbyne complex $[(\eta^3\text{-C}_5\text{H}_5)\{\text{P}(\text{OMe})_3\}(\text{CO})\text{W}\equiv\text{C}(\eta^3\text{-C}_3\text{H}_5)]$ . <i>Journal of the Chemical Society Chemical Communications</i> , 1990, , 624-625.	2.0	7
118	Formation of $\eta^3$ -dienes upon photooxidation of alkenyl carbyne complexes. <i>Journal of Organometallic Chemistry</i> , 1998, 554, 13-18.	0.8	7
119	Oxidation of Metal Carbynes in the Presence of Alkynes. Alkyne Addition vs H-Shift in the Carbene Intermediate. <i>Organometallics</i> , 1998, 17, 4413-4416.	1.1	7
120	Comparative study of ZrN and $\text{Zr}\epsilon\text{-Ge}\epsilon\text{-N}$ thin films as diffusion barriers for Cu metallization on Si. <i>Journal of Vacuum Science &amp; Technology B</i> , 2008, 26, 1723.	1.3	7
121	Heterobimetallic Complexes of Polypyridyl Ligands Containing Paramagnetic Centers: Synthesis and Characterization by IR and EPR. <i>Inorganic Chemistry</i> , 2013, 52, 14116-14123.	1.9	7
122	Effect of the Ligand Structure on Chemical Vapor Deposition of $\text{WN}_x\text{C}_y$ Thin Films from Tungsten Nitrido Complexes of the Type $\text{WN}(\text{NR})_2(\text{NR})_3$ . <i>Chemistry of Materials</i> , 2015, 27, 8326-8336.	3.2	7
123	Surface Reactions of Low-Energy Argon Ions with Organometallic Precursors. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24795-24808.	1.5	7
124	Photooxidation of Metal Carbynes. <i>Advances in Chemistry Series</i> , 1993, , 335-349.	0.6	6
125	Reaction of $(\text{CO})_5\text{W}(\text{THF})$ with triphenylmethyl azide and triptycyl azide. <i>Journal of Organometallic Chemistry</i> , 1995, 485, 123-126.	0.8	6
126	Tungsten Oxide Film and Nanorods Grown by Aerosol-Assisted Chemical Vapor Deposition Using $\eta^2$ -Diketionate and $\eta^2$ -Ketoesterate Tungsten (VI) Oxo-Alkoxide Precursors. <i>ECS Journal of Solid State Science and Technology</i> , 2016, 5, Q3095-Q3105.	0.9	6



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127	Growth of WO <sub>x</sub> from Tungsten(VI) Oxo-Fluoroalkoxide Complexes with Partially Fluorinated $\hat{\text{I}}^2$ -Diketonate/ $\hat{\text{I}}^2$ -Ketoesterate Ligands: Comparison of Chemical Vapor Deposition to Aerosol-Assisted CVD. ACS Applied Materials & Interfaces, 2019, 11, 28180-28188.	4.0	6
128	Synthesis of $\hat{\text{I}}^2$ -ketoiminate and $\hat{\text{I}}^2$ -iminoesterate tungsten (VI) oxo-alkoxide complexes as AACVD precursors for growth of WO thin films. Polyhedron, 2019, 157, 548-557.	1.0	6
129	Electrochemical Oxidation of Ethanol Using Heterobimetallic Complexes as an Approach to DEFC Catalysts. ECS Transactions, 2009, 19, 13-21.	0.3	5
130	Computational study on transamination of alkylamides with NH <sub>3</sub> during metalorganic chemical vapor deposition of tantalum nitride. Journal of Crystal Growth, 2009, 311, 3587-3591.	0.7	5
131	Analysis of the Homogeneous Thermal Decomposition of the Tungsten Dimethylhydrazido Complex Cl <sub>4</sub> (CH <sub>3</sub> CN)W(NNMe <sub>2</sub> ) Using In Situ Raman Spectroscopy and DFT Calculations. ECS Transactions, 2010, 28, 15-26.	0.3	5
132	Deposition of WN <sub>x</sub> C <sub>y</sub> from the Tungsten Piperidylhydrazido Complex Cl <sub>4</sub> (CH <sub>3</sub> CN)W(N-pip) as a Single-Source Precursor. Journal of the Electrochemical Society, 2011, 158, H618.	1.3	5
133	Synthesis and Characterization of Tungsten Nitrido Amido Guanidinato Complexes as Precursors for Chemical Vapor Deposition of WN <sub>x</sub> C <sub>y</sub> Thin Films. European Journal of Inorganic Chemistry, 2018, 2018, 46-53.	1.0	5
134	The Role of Low-Energy Electron Interactions in cis-Pt(CO) <sub>2</sub> Br <sub>2</sub> Fragmentation. International Journal of Molecular Sciences, 2021, 22, 8984.	1.8	5
135	Formation of Pentadienal Complexes upon Protonation of Molybdenum (1-Alkylcyclopropyl)carbynes. Electronic Effects on Reductive Elimination versus $\beta$ -Hydrogen Elimination in Metallacyclohexenones. Journal of the American Chemical Society, 1994, 116, 8629-8637.	6.6	4
136	Electrochemical oxidation of ethanol using Nafion electrodes modified with heterobimetallic catalysts. Inorganica Chimica Acta, 2011, 369, 159-164.	1.2	4
137	Experimental and Computational Studies of the Homogeneous Thermal Decomposition of the Tungsten Dimethylhydrazido Complexes Cl <sub>4</sub> (RCN)W(NNMe <sub>2</sub> ). Journal of the Electrochemical Society, 2012, 159, H545-H553.	1.3	4
138	Synthesis of tungsten oxo fluoroalkoxide complexes WO(OR) <sub>3</sub> L as precursors for growth of WO <sub>x</sub> nanomaterials by aerosol-assisted chemical vapor deposition. Solid State Ionics, 2018, 315, 77-84.	1.3	4
139	Photochemistry of ( $\hat{\text{I}}^3$ -allyl)Ru(CO) <sub>3</sub> X Precursors for Photoassisted Chemical Vapor Deposition. Organometallics, 2019, 38, 4363-4370.	1.1	4
140	Structure of (benzo[c]cinnoline-N')pentacarbonyltungsten. Acta Crystallographica Section C: Crystal Structure Communications, 1992, 48, 1120-1121.	0.4	3
141	Photo-oxidation of metal carbynes. Journal of Photochemistry and Photobiology A: Chemistry, 1994, 80, 265-270.	2.0	3
142	Low Temperature Deposition of WN <sub>x</sub> C <sub>y</sub> Diffusion Barriers Using WN(NEt <sub>2</sub> ) <sub>3</sub> as a Single-Source Precursor. ECS Journal of Solid State Science and Technology, 2015, 4, N3180-N3187.	0.9	3
143	<i>In Situ</i> Investigation of the Thermal Decomposition of Cl <sub>4</sub> (CH <sub>3</sub> CN)W(N <sup><i>i</i></sup> Pr) During Simulated Chemical Vapor Deposition. European Journal of Inorganic Chemistry, 2019, 2019, 3661-3666.	1.0	3
144	Bis( $\hat{\text{I}}^2$ -ketoiminate) dioxo tungsten(VI) complexes as precursors for growth of WO by aerosol-assisted chemical vapor deposition. Polyhedron, 2019, 169, 219-227.	1.0	3

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145	Checking in with Women Materials Scientists During a Global Pandemic: May 2020. Chemistry of Materials, 2020, 32, 4859-4862.	3.2	3
146	Thermal and Volumetric Studies of Complex Chemical Hydrides: Li-modified/Ti- doped Mg <sub>2</sub> FeH <sub>6</sub> , Sonicated LiNH <sub>2</sub> /LiH and Zn- doped NaBH <sub>4</sub> . Materials Research Society Symposia Proceedings, 2005, 885, 1.	0.1	2
147	Electrocatalytic Oxidation of Methanol. ACS Symposium Series, 2006, , 130-142.	0.5	2
148	Investigation of W-Ge-N deposited on Ge as a diffusion barrier for Cu metallization. Applied Physics A: Materials Science and Processing, 2006, 85, 325-329.	1.1	2
149	Photochemistry of 1,5-Cyclooctadiene Platinum Complexes for Photoassisted Chemical Vapor Deposition. Organometallics, 2020, 39, 4565-4574.	1.1	2
150	Low temperature platinum chemical vapor deposition on functionalized self-assembled monolayers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	0.9	2
151	Nanoscale Ruthenium-Containing Deposits from Ru(CO) <sub>4</sub> I <sub>2</sub> via Simultaneous Focused Electron Beam-Induced Deposition and Etching in Ultrahigh Vacuum: Mask Repair in Extreme Ultraviolet Lithography and Beyond. ACS Applied Nano Materials, 2022, 5, 3855-3865.	2.4	2
152	Photochemistry of (1 <sup>4</sup> -diene)Ru(CO) <sub>3</sub> Complexes as Precursor Candidates for Photoassisted Chemical Vapor Deposition. Organometallics, 2022, 41, 761-775.	1.1	2
153	Reaction of the iodo-bridged tungsten(IV) dimer [(PhN)W(CO) <sub>2</sub> I <sub>2</sub> ] <sub>2</sub> with LiOCH <sub>3</sub> . Polyhedron, 1998, 17, 3477-3484.	1.0	1
154	Catalysis of the Electrooxidation of Biomass-Derived Alcohol Fuels. ACS Symposium Series, 2007, , 296-310.	0.5	1
155	Photoactivated Ru chemical vapor deposition using (1 <sup>3</sup> -allyl)Ru(CO) <sub>3</sub> X (X = Cl, Br, I): From molecular adsorption to Ru thin film deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 023404.	0.9	1
156	An N-bridged tungsten compound for the chemical vapor deposition of WN <sub>x</sub> thin films. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m2733-m2733.	0.2	0
157	Electrochemical Oxidation of Ethanol Using Heterobimetallic Complexes as an Approach to DEFC Catalysts. ECS Meeting Abstracts, 2009, , .	0.0	0
158	Mechanism-Based Design of Precursors for MOCVD. ECS Meeting Abstracts, 2009, , .	0.0	0
159	Stability of Cu/Ir/Si trilayer structure to moderate annealing. Materials Science in Semiconductor Processing, 2009, 12, 151-155.	1.9	0
160	In Situ Investigation of the Thermal Decomposition of Cl <sub>4</sub> (CH <sub>3</sub> CN)W(NiPr) During Simulated Chemical Vapor Deposition. European Journal of Inorganic Chemistry, 2019, 2019, 3646-3646.	1.0	0
161	Photooxidation of Molybdenum and Tungsten Carbynes. , 1993, , 123-125.		0