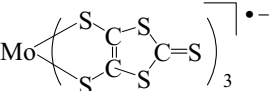
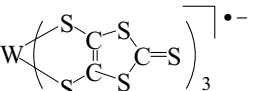
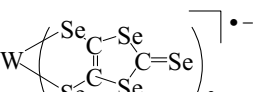
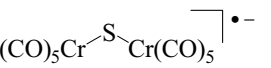
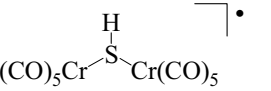
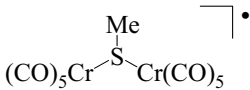
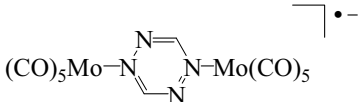
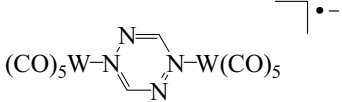
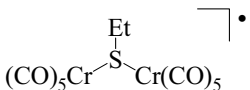
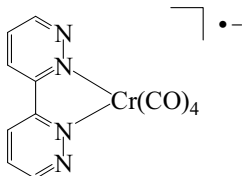
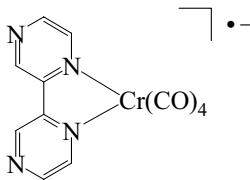
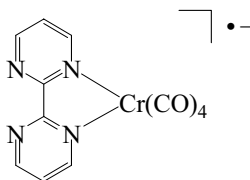
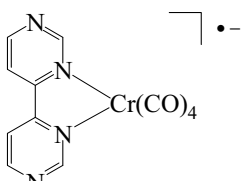
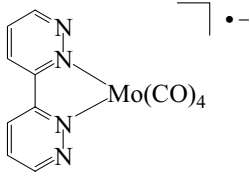
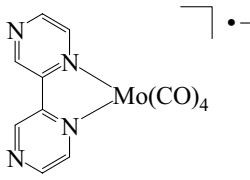
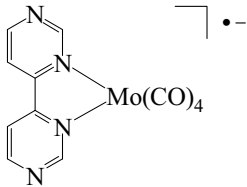
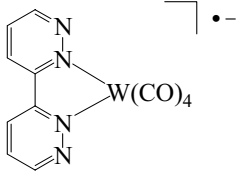
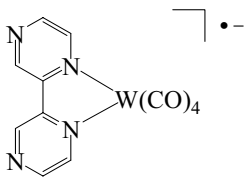
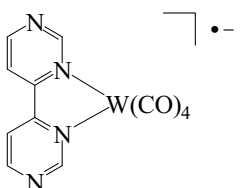
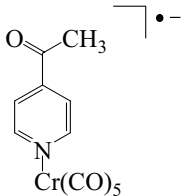
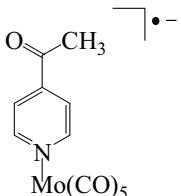
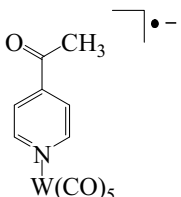
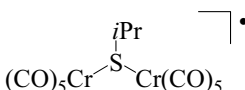


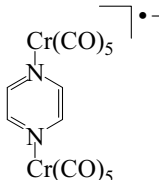
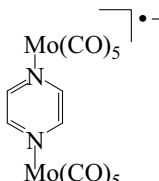
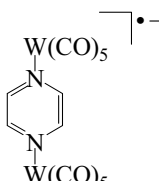
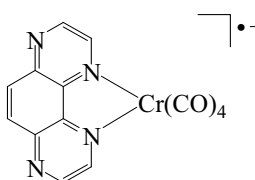
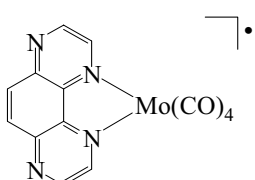
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
3.7 Complexes of group 6 (Cr, Mo, W)			
$[C_9MoS_{15}]^{\bullet-}$ 	chemical oxidation dichloromethane ESR / 293	2.008	93Mat1
	electrochemistry, UV-VIS and IR spectroscopy, magnetic properties		
$[C_9S_{15}W]^{\bullet-}$ 	chemical oxidation dichloromethane ESR / 293 powder ESR / 293	1.988 1.987	93Mat1
	crystal structure, electrochemistry, UV-VIS and IR spectroscopy, magnetic properties		
$[C_9Se_{15}W]^{\bullet-}$ 	chemical oxidation powder ESR / 293	1.99	95Dou
	electrochemistry, UV-VIS and IR spectroscopy, magnetic properties		
$[C_{10}Cr_2O_{10}S]^{\bullet-}$ 	γ -irradiation of single crystals solid state ESR / 77	$g_x = 2.0008$ $g_y = 2.1142$ $g_z = 2.0472$	91Hyn
$[C_{10}O_{10}SW_2]^{\bullet-}$ 	γ -irradiation of single crystals solid state ESR / 77	$g_x = 1.9899$ $g_y = 2.2461$ $g_z = 2.0900$	91Hyn
$[C_{10}HCr_2O_{10}S]^{\bullet}$ 	electrochemically generated THF / dichloromethane ESR / 203	2.0264 H: ca. 4.0 (partially resolved doublet)	90Spr
(continued)			

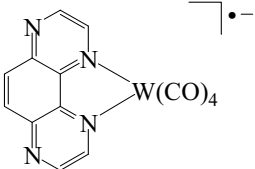
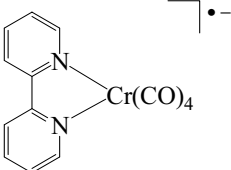
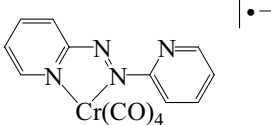
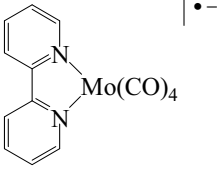
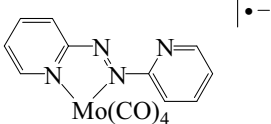
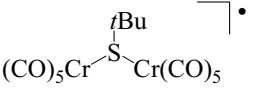
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{11}\text{H}_3\text{Cr}_2\text{O}_{10}\text{S}]^\bullet$ 	electrochemically generated THF / dichloromethane ESR / 203 2-methyl-THF ESR / 103	2.0244 H: 6.3 (quartet) ^{53}Cr : 5.3 ^{33}S : 14.9 $g_1 = 2.0437$ $g_2 = 2.0274$ $g_3 = 2.0025$ $g_{\text{av}} = 2.0245$	90Spr
IR spectroscopy, electrochemistry, MO calculations			
$[\text{C}_{12}\text{H}_2\text{Mo}_2\text{N}_4\text{O}_{10}]^{\bullet-}$ 	reduction with potassium metal THF ESR / 295 HMO calculations	2.0047 $^{95,97}\text{Mo}$: 0.185 $^{14}\text{N}(\text{azo})$: 0.705 $\text{N}'(\text{azo}')$: 0.433 H(3,6): 0.021	86Kai2
$[\text{C}_{12}\text{H}_2\text{N}_4\text{O}_{10}\text{W}_2]^{\bullet-}$ 	reduction with potassium metal THF ESR / 295 HMO calculations	2.0070 ^{183}W : 0.368 $^{14}\text{N}(\text{azo})$: 0.715 $\text{N}'(\text{azo}')$: 0.418	86Kai2
$[\text{C}_{12}\text{H}_5\text{Cr}_2\text{O}_{10}\text{S}]^\bullet$ 	electrochemically generated THF / dichloromethane ESR / 203 2-methyl-THF ESR / 103	2.0245 H: 3.0 (triplet) ^{53}Cr : 5.4 ^{33}S : 14.6 $g_1 = 2.0426$ $g_2 = 2.0268$ $g_3 = 2.0035$ $g_{\text{av}} = 2.0243$	90Spr
IR spectroscopy, electrochemistry, MO calculations			
$[\text{C}_{12}\text{H}_6\text{CrN}_4\text{O}_4]^{\bullet-}$ 	reduction with potassium THF ESR / 298 HMO calculations	2.0023 $^{14}\text{N}(1)$: 0.095 $^{14}\text{N}(2)$: 0.550 H(5): 0.332 H(6): 0.210	86Kai1

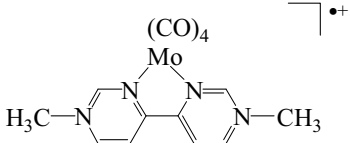
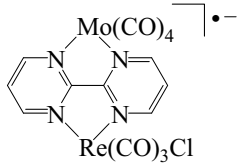
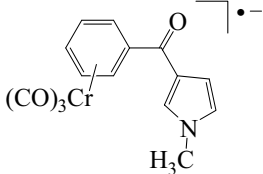
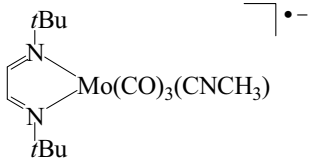
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{12}\text{H}_6\text{CrN}_4\text{O}_4]^{\bullet-}$ 	reduction with potassium THF ESR / 298 HMO calculations electrochemistry, UV-VIS spectroscopy	2.0024 $^{14}\text{N}(1)$: 0.482 $\text{H}(3)$: 0.044 $^{14}\text{N}(4)$: 0.093 $\text{H}(5)$: 0.469 $\text{H}(6)$: 0.020	86Kai1 95Wal
$[\text{C}_{12}\text{H}_6\text{CrN}_4\text{O}_4]^{\bullet-}$ 	reduction with potassium THF ESR / 298 HMO calculations	2.0026 $^{14}\text{N}(1)$: 0.239 $^{14}\text{N}(3)$: 0.152 $\text{H}(4)$: 0.024 $\text{H}(5)$: 0.500 $\text{H}(6)$: 0.057	86Kai1
$[\text{C}_{12}\text{H}_6\text{CrN}_4\text{O}_4]^{\bullet-}$ 	reduction with potassium THF ESR / 298 ENDOR / RT HMO calculations	2.0027 $^{14}\text{N}(1)$: 0.289 $\text{H}(2)$: 0.034 $^{14}\text{N}(3)$: 0.256 $\text{H}(5)$: 0.165 $\text{H}(6)$: 0.165	86Kai1
$[\text{C}_{12}\text{H}_6\text{MoN}_4\text{O}_4]^{\bullet-}$ 	reduction with potassium THF ESR / 298 HMO calculations	2.0031 $^{14}\text{N}(1)$: 0.07 $^{14}\text{N}(2)$: 0.550 $\text{H}(4)$: 0.07 $\text{H}(5)$: 0.278 $\text{H}(6)$: 0.220	86Kai1
$[\text{C}_{12}\text{H}_6\text{MoN}_4\text{O}_4]^{\bullet-}$ 	reduction with potassium THF ESR / 298 HMO calculations electrochemistry, UV-VIS spectroscopy	2.0026 $^{14}\text{N}(1)$: 0.486 $\text{H}(3)$: 0.033 $^{14}\text{N}(4)$: 0.101 $\text{H}(5)$: 0.452 $\text{H}(6)$: 0.016	86Kai1 86Kai2 95Wal

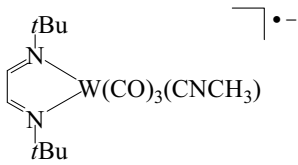
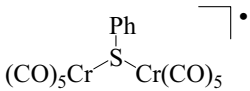
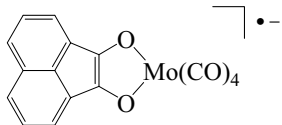
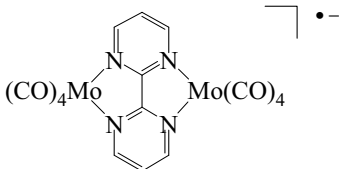
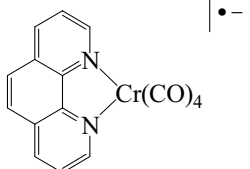
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{12}\text{H}_6\text{MoN}_4\text{O}_4]^{\bullet-}$ 	electrochemically generated THF ESR / 298 electrochemistry, UV-VIS spectroscopy reduction with potassium THF ESR / 298 HMO calculations	2.0029 2.0028 $^{14}\text{N}(1)$: 0.28 $^{14}\text{N}(3)$: 0.26 $\text{H}(5)$: 0.15 $\text{H}(6)$: 0.15	85Ern 86Kai1
$[\text{C}_{12}\text{H}_6\text{N}_4\text{O}_4\text{W}]^{\bullet-}$ 	reduction with potassium THF ESR / 298 HMO calculations	2.0033 $^{14}\text{N}(1)$: 0.062 $^{14}\text{N}(2)$: 0.553 $\text{H}(4)$: 0.062 $\text{H}(5)$: 0.278 $\text{H}(6)$: 0.216	86Kai1
$[\text{C}_{12}\text{H}_6\text{N}_4\text{O}_4\text{W}]^{\bullet-}$ 	reduction with potassium THF ESR / 298 HMO calculations	2.0032 $^{14}\text{N}(1)$: 0.46 $^{14}\text{N}(4)$: 0.105 $\text{H}(5)$: 0.46	86Kai1
$[\text{C}_{12}\text{H}_6\text{N}_4\text{O}_4\text{W}]^{\bullet-}$ 	reduction with potassium THF ESR / 298 HMO calculations	2.0024 $^{14}\text{N}(1)$: 0.30 $^{14}\text{N}(3)$: 0.27 $\text{H}(5)$: 0.15 $\text{H}(6)$: 0.15	86Kai1

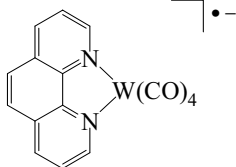
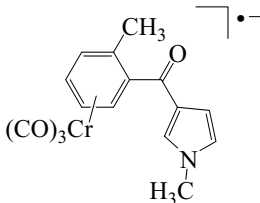
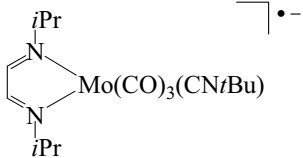
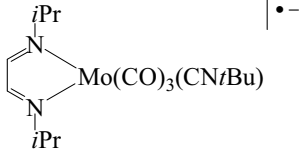
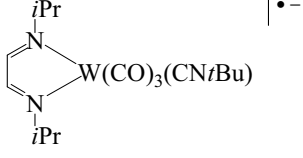
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{12}\text{H}_7\text{CrNO}_6]^{\bullet-}$ 	electrochemical reduction or chemical reaction THF ESR / 300	2.0036 $^{14}\text{N}(1)$: 0.570 $\text{H}(2)$: 0.103 $\text{H}(3)$: 0.248 $\text{H}(\text{CH}_3)$: 0.506 $\text{H}(5)$: 0.290 $\text{H}(6)$: 0.062	84Kai
electrochemistry, HMO calculations			
$[\text{C}_{12}\text{H}_7\text{MoNO}_6]^{\bullet-}$ 	electrochemical reduction or chemical reaction THF ESR / 300	2.0038 $^{14}\text{N}(1)$: 0.580 $\text{H}(2)$: 0.105 $\text{H}(3)$: 0.246 $\text{H}(\text{CH}_3)$: 0.504 $\text{H}(5)$: 0.272 $\text{H}(6)$: 0.061	84Kai
electrochemistry, HMO calculations			
$[\text{C}_{12}\text{H}_7\text{NO}_6\text{W}]^{\bullet-}$ 	electrochemical reduction or chemical reaction THF ESR / 300	2.0046 $^{14}\text{N}(1)$: 0.560 $\text{H}(2)$: 0.126 $\text{H}(3)$: 0.224 $\text{H}(\text{CH}_3)$: 0.480 $\text{H}(5)$: 0.268 $\text{H}(6)$: 0.080	84Kai
electrochemistry, HMO calculations			
$[\text{C}_{13}\text{H}_7\text{Cr}_2\text{O}_{10}\text{S}]^{\bullet}$ 	electrochemically generated THF / dichloromethane ESR / 213 2-methyl-THF ESR / 103	2.0249 ^{53}Cr : 6.0 ^{33}S : 14.5 $g_1 = 2.0457$ $g_2 = 2.0282$ $g_3 = 1.9991$ $g_{\text{av}} = 2.0243$	90Spr
IR spectroscopy, electrochemistry, MO calculations			

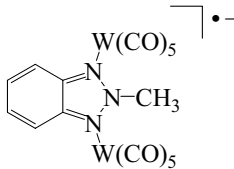
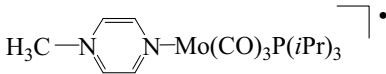
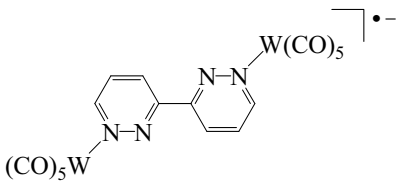
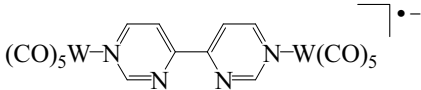
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{14}H_4Cr_2N_2O_{10}]^{\bullet-}$ 	chemical reduction THF ESR / 298 NMR, IR and UV-VIS spectroscopy, electrochemistry	2.0035 ^{53}Cr : 0.070 H: 0.246 ^{14}N : 0.859	86Gro
$[C_{14}H_4Mo_2N_2O_{10}]^{\bullet-}$ 	chemical reduction THF ESR / 298 NMR, IR and UV-VIS spectroscopy, electrochemistry	2.0042 $^{95,97}Mo$: 0.150 H: 0.253 ^{14}N : 0.818	86Gro
$[C_{14}H_4N_2O_{10}W_2]^{\bullet-}$ 	chemical reduction THF ESR / 298 NMR, IR and UV-VIS spectroscopy, electrochemistry	2.0061 ^{183}W : 0.286 H: 0.254 ^{14}N : 0.823	86Gro
$[C_{14}H_6CrN_4O_4]^{\bullet-}$ 	reduction with potassium metal 1,2-dimethoxyethane ESR / 300 HMO calculations	2.0023 insufficiently resolved hfs	96Ern
$[C_{14}H_6MoN_4O_4]^{\bullet-}$ 	reduction with potassium metal 1,2-dimethoxyethane ESR / 300 HMO calculations	2.0021 H(3): 0.405 H(4): 0.155 ^{14}N : 0.425	96Ern

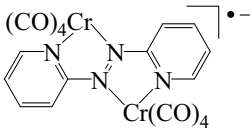
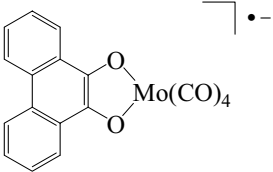
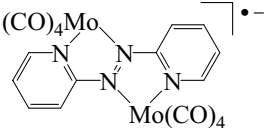
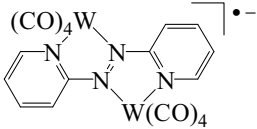
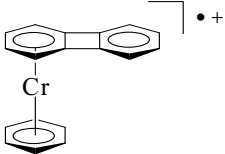
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{14}H_6N_4O_4W]^{•-}$ 	reduction with potassium metal 1,2-dimethoxyethane ESR / 300 HMO calculations	2.0005 insufficiently resolved hfs	96Ern
$[C_{14}H_8CrN_2O_4]^{•-}$ 	reduction with potassium metal in the presence of cryptand THF ESR / 295 IR spectroelectrochemistry	2.0026 ^{53}Cr : 0.128 $H(3,3')$: 0.105 $H(4,4')$: 0.124 $H(5,5')$: 0.451 $H(6,6')$: 0.075 ^{14}N : 0.371	98Vlc
$[C_{14}H_8CrN_4O_4]^{•-}$ 	spectroelectrochemically generated acetonitrile ESR / 298	2.0024 $^{14}N(1,1')$: 0.482 $H(3,3')$: 0.044 $^{14}N(4,4')$: 0.093 $H(5,5')$: 0.469 $H(6,6')$: 0.020	95Wal
$[C_{14}H_8MoN_2O_4]^{•-}$ 	electrolysis THF ESR / 291 electrochemistry, UV-VIS spectroscopy	2.004 $^{95,97}Mo$: 0.16 H : 0.12 H : 0.10 H : 0.42 H : 0.07 ^{14}N : 0.35	85Mih
$[C_{14}H_8MoN_4O_4]^{•-}$ 	spectroelectrochemically generated acetonitrile ESR / 298	2.0026 $^{95,97}Mo$: 0.22 $^{14}N(1,1')$: 0.468 $H(3,3')$: 0.033 $^{14}N(4,4')$: 0.101 $H(5,5')$: 0.452 $H(6,6')$: 0.016	95Wal
$[C_{14}H_9Cr_2O_{10}S]^•$  (continued)	electrochemically generated THF / dichloromethane ESR / 193	2.0264 ^{53}Cr : 5.0 ^{33}S : 14.2	90Spr

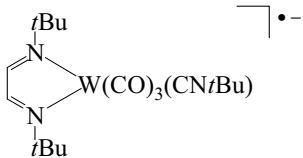
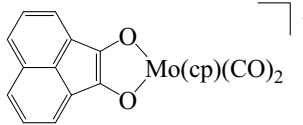
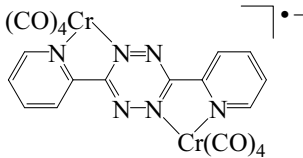
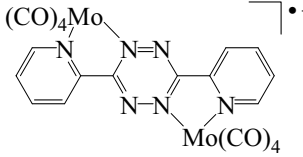
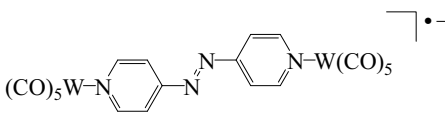
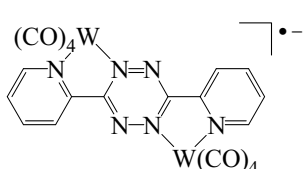
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{14}H_9Cr_2O_{10}S]^{\bullet+}$ (<i>continued</i>)	2-methyl-THF ESR / 103 crystal structure, IR spectroscopy, electrochemistry, MO calculations	$g_1 = 2.0496$ $g_2 = 2.0268$ $g_3 = 1.9998$ $g_{av} = 2.0254$	
$[C_{14}H_{12}MoN_4O_4]^{\bullet+}$ 	reaction of ligand with (norbornadiene)-Mo(CO) ₄ acetone ESR / RT acetone ESR / ENDOR / 245	2.0021 $^{14}N(1)$: 0.364 $H(CH_3)$: 0.364 $H(2)$: < 0.015 $^{14}N(3)$: 0.14 $H(5)$: 0.14 $H(6)$: 0.240 $^{14}N(1)$: 0.360 $H(CH_3)$: 0.370 $H(2)$: < 0.005 $^{14}N(3)$: < 0.2 $H(5)$: 0.135 $H(6)$: 0.245	94Mat
$[C_{15}H_6ClMoN_4O_7Re]^{\bullet-}$ 	electrochemical generation dichloroethane ESR / 298 electrochemistry, UV-VIS spectroscopy, luminescence	2.0014 $^{185,187}Re$: 1.1	91Mat2
$[C_{15}H_{10}CrNO_4]^{\bullet-}$ 	reduction with potassium 1,2-dimethoxyethane ESR / 298 MO calculations	$H(p)$: 0.360 $H(o)$: 0.170	87Gog
$[C_{15}H_{23}MoN_3O_3]^{\bullet-}$ 	chemical reduction THF ESR / 298 electrochemistry, UV-VIS and IR spectroscopy	1.9991 $^{95,97}Mo$: 0.26 ^{14}N : 0.610 H : 0.47	86Bel1

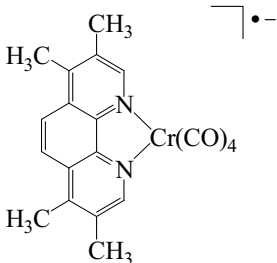
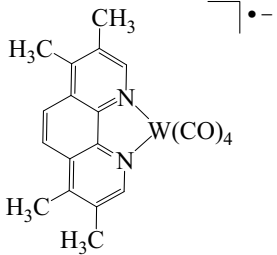
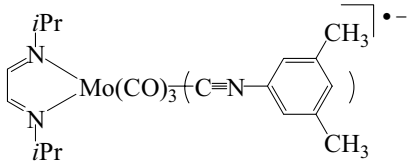
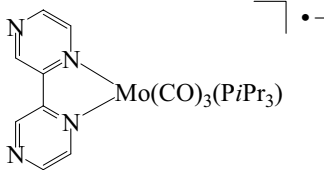
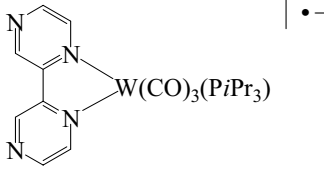
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / α -Value [mT]	Ref. / add. Ref.
$[\text{C}_{15}\text{H}_{23}\text{N}_3\text{O}_3\text{W}]^{\bullet-}$ 	chemical reduction THF ESR / 298 electrochemistry, UV-VIS and IR spectroscopy	1.9998 ^{183}W : 0.62 ^{14}N : 0.690 H: 0.430	86Bel1
$[\text{C}_{16}\text{H}_5\text{Cr}_2\text{O}_{10}\text{S}]^{\bullet}$ 	electrochemically generated pentane ESR / 223 2-methyl-THF ESR / 103 IR spectroscopy, electrochemistry, MO calculations	2.0244 ^{53}Cr : 5.5 ^{33}S : 13.4 $g_1 = 2.0413$ $g_2 = 2.0269$ $g_3 = 2.0024$ $g_{\text{av}} = 2.0235$	90Spr
$[\text{C}_{16}\text{H}_6\text{MoO}_6]^{\bullet-}$ 	photochemical reaction THF ESR / 298	2.0048 $^{95,97}\text{Mo}$: 0.20 H(3,5,6,8): 0.11	91Han
$[\text{C}_{16}\text{H}_6\text{Mo}_2\text{N}_4\text{O}_8]^{\bullet-}$ 	electrochemically generated THF ESR	2.0022 $^{95,97}\text{Mo}$: 0.105 ^{14}N : 0.228 hyperfine	91Mat1
$[\text{C}_{16}\text{H}_8\text{CrN}_2\text{O}_4]^{\bullet-}$ 	electrochemical generation THF ESR / 298 IR and UV-VIS spectroelectrochemistry, electrochemistry, DFT calculations	2.0022 ^{14}N : 0.368 H(3): 0.308 H(4): 0.278	00Far

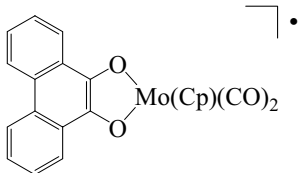
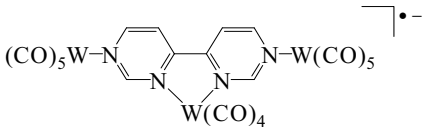
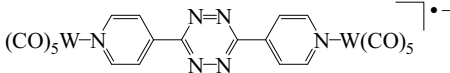
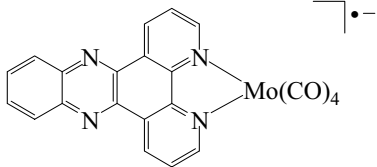
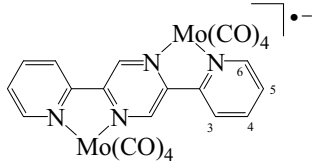
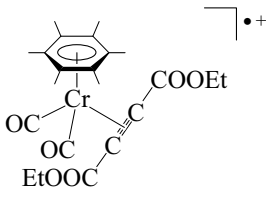
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{16}\text{H}_8\text{N}_2\text{O}_4\text{W}]^{\bullet-}$ 	electrochemical generation THF ESR / 298 IR and UV-VIS spectroelectrochemistry, electrochemistry, DFT calculations	2.0049 ^{14}N : 0.323 $\text{H}(3)$: 0.406 $\text{H}(4)$: 0.290	00Far
$[\text{C}_{16}\text{H}_{12}\text{CrNO}_4]^{\bullet-}$ 	reduction with potassium 1,2-dimethoxyethane ESR / 298 MO calculations	$\text{H}(p)$: 0.38 $\text{H}(o)$: 0.160 $\text{H}(o\text{-CH}_3)$: 0.150	87Gog
$[\text{C}_{16}\text{H}_{25}\text{CrN}_3\text{O}_3]^{\bullet+}$ or $[\text{C}_{16}\text{H}_{25}\text{CrN}_3\text{O}_3]^{\bullet-}$ 	chemical oxidation dichloromethane ESR / 113 chemical reduction THF ESR / 298 electrochemistry, UV-VIS and IR spectroscopy	broad signal 1.9991 $^{53}\text{Cr}(1\text{ Cr})$: 0.38 $^{14}\text{N}(2\text{ N})$: 0.705 $\text{H}(\text{CH}, 2\text{ H})$: 0.360 $\text{H}(i\text{Pr})$: 0.180	86Bel2
$[\text{C}_{16}\text{H}_{25}\text{MoN}_3\text{O}_3]^{\bullet-}$ 	chemical reduction THF ESR / 298 electrochemistry, UV-VIS and IR spectroscopy	1.9967 $^{95,97}\text{Mo}$: 0.31 ^{14}N : 0.705 H : 0.425 $\text{H}(i\text{Pr})$: 0.150	86Bel1
$[\text{C}_{16}\text{H}_{25}\text{N}_3\text{O}_3\text{W}]^{\bullet-}$ 	chemical reduction THF ESR / 298 electrochemistry, UV-VIS and IR spectroscopy	2.0036 ^{183}W : 0.65 ^{14}N : 0.690 H : 0.410 $\text{H}(i\text{Pr})$: 0.140	86Bel1

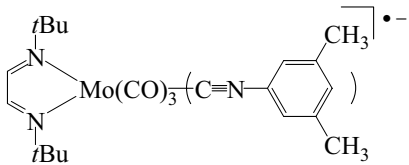
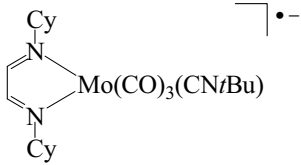
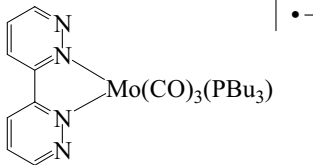
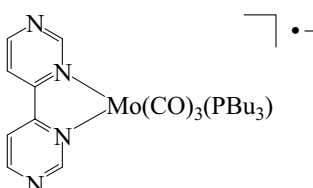
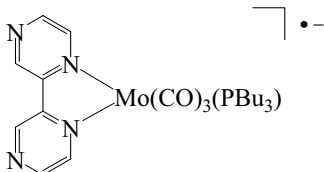
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{17}H_7N_3O_{10}W_2]^{\bullet-}$ 	reduction with potassium metal THF ESR / 298 IR and UV-VIS spectroscopy, electrochemistry	2.0067 ^{183}W : 0.165 ^{14}N : 0.639 H: 0.161	89Kai
$[C_{17}H_{28}MoN_2O_3P]^{\bullet}$ 	reduction with potassium metal in the presence of cryptand THF ESR / 298 electrochemistry, UV-VIS absorption, UV-VIS and IR spectroelectrochemistry	2.0041 ^{95}Mo : 0.312 ^{97}Mo : 0.329 H(CH ₃): 0.646 $^{14}N(-CH_3)$: 0.738 H(2,6): 0.409 H(3,5): 0.087 $^{14}N(-Mo)$: 0.846 ^{31}P : 2.650	96Hil1 93Pop2
$[C_{17}H_{28}N_2O_3PW]^{\bullet}$ 	reduction with potassium metal THF ESR / 298 electrochemistry	2.0087 H(CH ₃): 0.617 $^{14}N(-CH_3)$: 0.709 H(2,6): 0.394 H(3,5): 0.077 $^{14}N(-W)$: 0.862 ^{31}P : 3.235	93Bru 93Pop2
$[C_{18}H_6N_4O_{10}W_2]^{\bullet-}$ 	reduction with potassium metal THF ESR / 298 HMO calculations	2.0052 $^{14}N(1)$: 0.211 $^{14}N(2)$: 0.423 H(5): 0.10 H(6): 0.31	86Kai1
$[C_{18}H_6N_4O_{10}W_2]^{\bullet-}$ 	reduction with potassium metal THF ESR / 298 HMO calculations	2.0046 $^{14}N(1)$: 0.378 H(2): 0.132 $^{14}N(3)$: 0.132 H(5): 0.199 H(6): 0.144	86Kai1

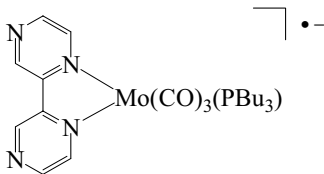
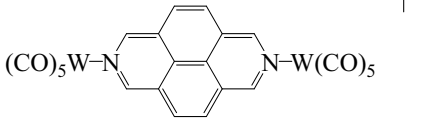
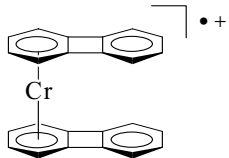
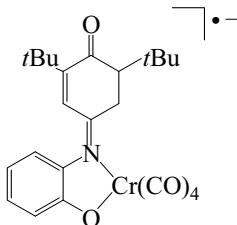
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / α -Value [mT]	Ref. / add. Ref.
$[\text{C}_{18}\text{H}_8\text{Cr}_2\text{N}_4\text{O}_8]^{\bullet-}$ 	reduction with potassium metal THF ESR / 295 HMO calculations	2.0040	86Kai2
$[\text{C}_{18}\text{H}_8\text{MoO}_6]^{\bullet-}$ 	photochemical reaction THF ESR / 298 1,2-dimethoxyethane ESR / 298	2.0053 $^{95,97}\text{Mo}$: 0.39 $\text{H}(1,3,6,8)$: 0.14 2.0053 $^{95,97}\text{Mo}$: 0.37 $\text{H}(1,3,6,8)$: 0.14	91Han
$[\text{C}_{18}\text{H}_8\text{Mo}_2\text{N}_4\text{O}_8]^{\bullet-}$ 	reduction with potassium metal THF ESR / 295 ENDOR / 220 or 250 HMO calculations	2.0050 $^{14}\text{N}(\text{azo})$: 0.6 $^{14}\text{N}(1)$: 0.24 $\text{H}(3)$: 0.186 $\text{H}(4)$: 0.00 $\text{H}(5)$: 0.255 $\text{H}(6)$: 0.054	86Kai2
$[\text{C}_{18}\text{H}_8\text{N}_4\text{O}_8\text{W}_2]^{\bullet-}$ 	reduction with potassium metal THF ESR / 295 HMO calculations	2.0089	86Kai2
$[\text{C}_{18}\text{H}_{14}\text{Cr}]^{\bullet+}$ 	chemical reaction chloroform / dimethylformamide 1:1 ESR / 223 chloroform / dimethylformamide 1:1 ESR / 173	1.9911 ^{53}Cr : 1.749 $\text{H}(1,4)$: 0.240 $\text{H}(2,3)$: 0.450 $\text{H}(9)$: 0.350 $g_{\parallel}$: 2.0089 $g_{\perp}$: 1.9810	88Els

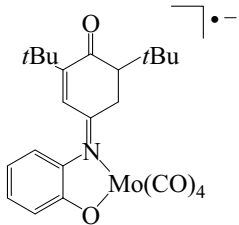
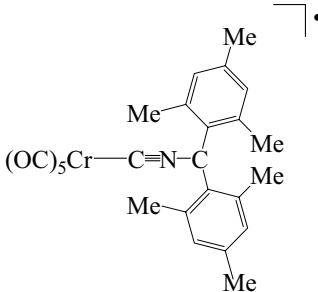
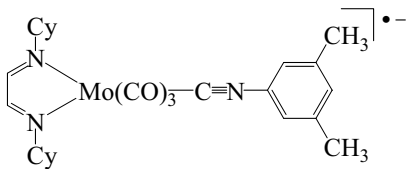
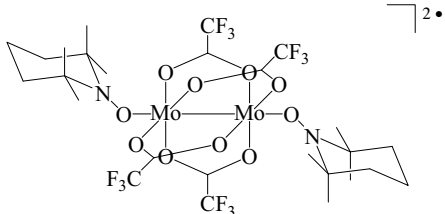
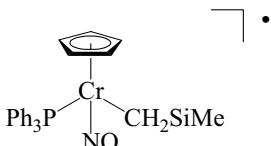
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{18}H_{29}N_3O_3W]^{\bullet-}$ 	chemical reduction THF ESR / 298	2.0014 ^{183}W : 0.61 ^{14}N : 0.700 H: 0.420	86Bel1
electrochemistry, UV-VIS and IR spectroscopy			
$[C_{19}H_{11}MoO_4]^{\bullet}$ 	photochemical reaction toluene ESR / 298	2.0003 $^{95,97}Mo$: 0.50 H(3,5,6,8): 0.10	91Han
$[C_{20}H_8Cr_2N_6O_8]^{\bullet-}$ 	reduction with potassium metal THF ESR / 295 HMO calculations	2.0033 ^{53}Cr : 0.11 ^{14}N (azo): 0.622 N' (azo'): 0.459	86Kai2
$[C_{20}H_8Mo_2N_6O_8]^{\bullet-}$ 	reduction with potassium metal THF ESR / 295 HMO calculations electrochemistry, UV-VIS and IR spectroscopy	2.0045 $^{95,97}Mo$: 0.22 ^{14}N (azo): 0.640 N' (azo'): 0.420 H(3',5'): 0.017	85Kai 86Kai2 86Kai3 86Kai2 86Kai3
$[C_{20}H_8N_4O_{10}W_2]^{\bullet-}$ 	electrolysis dichloromethane ESR / 298 electrochemistry, IR and UV-VIS spectroscopy	2.0051 H(3,5): 0.23 ^{14}N (py): 0.23 ^{14}N (azo): 0.55	90Kai2
$[C_{20}H_8N_6O_8W_2]^{\bullet-}$ 	reduction with potassium metal THF ESR / 295 HMO calculations	2.0068 ^{183}W : 0.415 ^{14}N (azo): 0.640 N' (azo'): 0.415	86Kai2

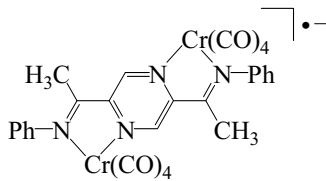
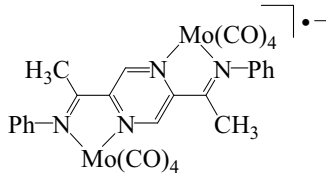
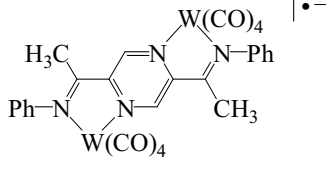
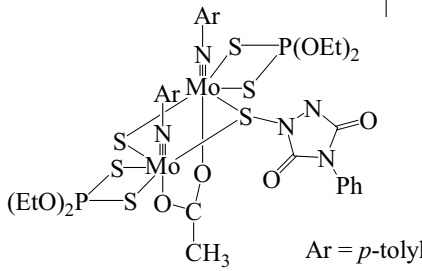
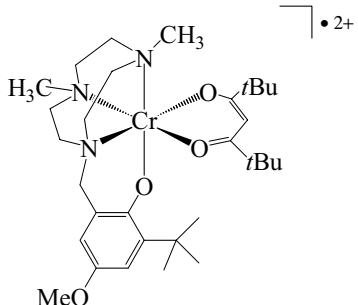
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{20}H_{16}CrN_2O_4]^{\bullet-}$ 	electrochemical generation <i>n</i> -PrCN ESR / 183 IR and UV-VIS spectroelectrochemistry, electrochemistry, DFT calculations	2.0044 ^{14}N : 0.082 H(2): 0.361 H(3, CH ₃): 0.007 H(4, CH ₃): 0.363 H(5): 0.317	00Far
$[C_{20}H_{16}N_2O_4W]^{\bullet-}$ 	electrochemical generation THF ESR / 298 IR and UV-VIS spectroelectrochemistry, electrochemistry, DFT calculations	2.0049 ^{14}N : 0.023 H(2): 0.425 H(4, CH ₃): 0.304 H(5): 0.160	00Far
$[C_{20}H_{25}MoN_3O_3]^{\bullet-}$ 	chemical reduction THF ESR / 298 electrochemistry, UV-VIS and IR spectroscopy	1.9999 $^{95,97}Mo$: 0.30 ^{14}N : 0.705 H: 0.425 H(<i>i</i> Pr): 0.150	86Bel1
$[C_{20}H_{27}MoN_4O_3P]^{\bullet-}$ 	electrolysis acetonitrile ESR / 298 IR and UV-VIS spectroscopy, electrochemistry	2.0025 ^{31}P : 2.88 $^{14}N(1)$: 0.45	88Olb
$[C_{20}H_{27}N_4O_3PW]^{\bullet-}$ 	electrolysis acetonitrile ESR / 298 IR and UV-VIS spectroscopy, electrochemistry	2.0016 ^{31}P : 1.93	88Olb

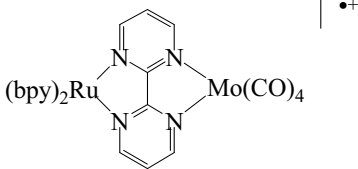
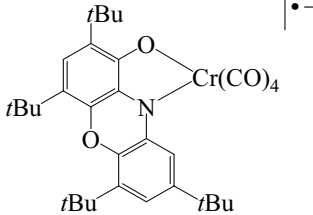
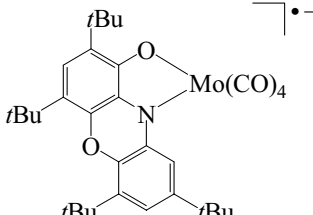
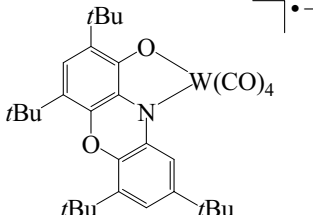
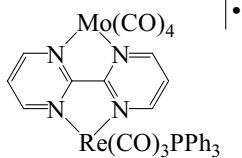
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{21}H_{13}MoO_4]^{\bullet-}$ 	photochemical reaction toluene ESR / 298	1.9957 $^{95,97}Mo$: 1.12 H(1,3,6,8): 0.10	91Han
$[C_{22}H_6N_4O_{14}W_3]^{\bullet-}$ 	electrochemical reduction THF ESR / 298 IR and UV-VIS spectroscopy, electrochemistry	2.0031 $^{14}N(1)$: 0.34 H(2): 0.17 $^{14}N(3)$: 0.17 H(6): 0.34	88Ern1
$[C_{22}H_8N_6O_{10}W_2]^{\bullet-}$ 	electrolysis dichloromethane ESR / 298 electrochemistry, IR and UV-VIS spectroscopy	2.0039 ^{14}N : 0.493	90Kai2
$[C_{22}H_{10}MoN_4O_4]^{\bullet-}$ 	electrochemically generated THF ESR / 293 electrochemistry, UV-VIS spectroscopy and spectroelectrochemistry	2.00333 $^{14}N(9,14)$: 0.52	99Fee
$[C_{22}H_{10}Mo_2N_4O_8]^{\bullet-}$ 	electrochemically generated THF ESR / 298 electrochemistry, IR and UV-VIS spectroelectrochemistry	2.0028 $^{14}N(pz)$: 0.374 $^{14}N(py)$: 0.163 H5: 0.163 H3, H_{pz} : 0.108 H6: 0.052	95Kai
$[C_{22}H_{28}CrO_6]^{\bullet+}$  (continued)	oxidation with $[FeCp_2]^+$ in dichloromethane dichloromethane ESR / 298	1.9936 ^{53}Cr : 1.68 C: 0.91	92Con

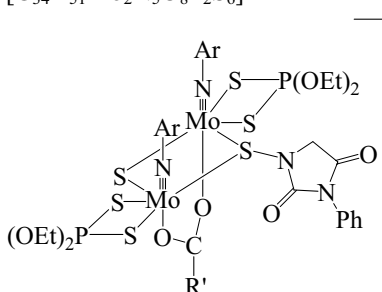
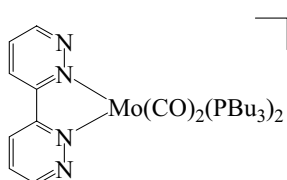
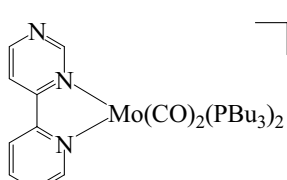
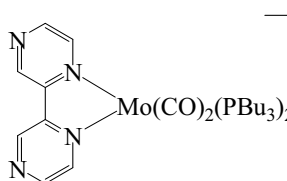
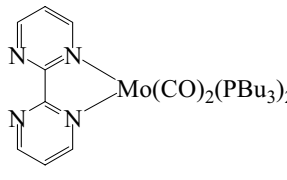
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{22}\text{H}_{28}\text{CrO}_2]^{\bullet+}$ (<i>continued</i>)	dichloromethane/THF ESR / 77 electrochemistry, MO calculations	$g_1 = 1.979$ $g_2 = 1.995$ $g_3 = 2.007$	
$[\text{C}_{22}\text{H}_{29}\text{MoN}_3\text{O}_3]^{\bullet-}$ 	chemical reduction THF ESR / 298 electrochemistry, UV-VIS and IR spectroscopy	1.9986 $^{95,97}\text{Mo}$: 0.37 ^{14}N : 0.700 H: 0.420	86Bel1
$[\text{C}_{22}\text{H}_{33}\text{MoN}_3\text{O}_3]^{\bullet-}$ 	chemical reduction THF ESR / 298 electrochemistry, UV-VIS and IR spectroscopy	1.9967 ^{14}N : 0.670	86Bel1
$[\text{C}_{23}\text{H}_{33}\text{MoN}_4\text{O}_3\text{P}]^{\bullet-}$ 	reduction with potassium THF ESR / 298 IR, UV-VIS and NMR spectroscopy, electrochemistry	2.0022 ^{31}P : 3.57 $^{14}\text{N}(1)$: 0.10 $^{14}\text{N}(2)$: 0.519 H(5): 0.2067 H(6): 0.30	88Ern2
$[\text{C}_{23}\text{H}_{33}\text{MoN}_4\text{O}_3\text{P}]^{\bullet-}$ 	reduction with potassium THF ESR / 298 IR, UV-VIS and NMR spectroscopy, electrochemistry	2.0017 ^{31}P : 1.760 $^{14}\text{N}(1)$: 0.26 $^{14}\text{N}(3)$: 0.26 H(5): 0.13 H(6): 0.13	88Ern2
$[\text{C}_{23}\text{H}_{33}\text{MoN}_4\text{O}_3\text{P}]^{\bullet-}$ 	reduction with potassium THF ESR / 298 IR, UV-VIS and NMR spectroscopy, electrochemistry	2.0027 ^{31}P : 3.44 $^{14}\text{N}(1)$: 0.45 H(5): 0.45	88Ern2

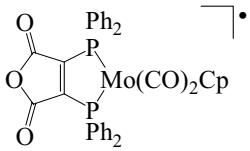
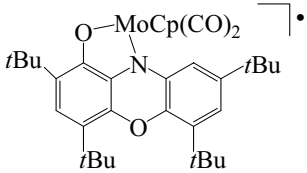
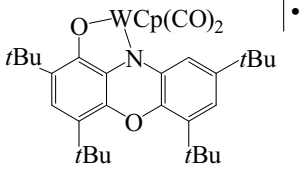
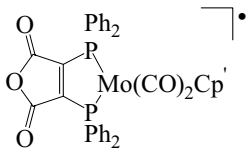
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{23}\text{H}_{33}\text{MoN}_4\text{O}_3\text{P}]^{\bullet-}$ 	electrolysis acetonitrile ESR / 298	2.0025 ^{31}P : 4.13 $^{14}\text{N}(1)$: 0.46 $\text{H}(5)$: 0.46	88Olb
IR and UV-VIS spectroscopy, electrochemistry			
$[\text{C}_{22}\text{H}_{33}\text{N}_3\text{O}_3\text{W}]^{\bullet-}$ 	chemical reduction THF ESR / 298	2.0037 ^{14}N : 0.680	86Bel1
electrochemistry, UV-VIS and IR spectroscopy			
$[\text{C}_{24}\text{H}_8\text{N}_2\text{O}_{10}\text{W}_2]^{\bullet-}$ 	reduction with potassium metal THF ESR / 298	2.0052 ^{183}W : 0.139 $\text{H}(1)$: 0.166 $\text{H}(3)$: 0.025 ^{14}N : 0.458	96Wal
electrochemistry, UV-VIS spectroscopy			
$[\text{C}_{24}\text{H}_{16}\text{Cr}]^{\bullet+}$ 	chemical reaction chloroform / dimethylformamide 1:1 ESR / 223 chloroform / dimethylformamide 1:1 ESR / 173	1.9903 ^{53}Cr : 1.782 $\text{H}(1,4)$: 0.250 $\text{H}(2,3)$: 0.442 $g_{\parallel}$: 1.9998 $g_{\perp}$: 1.9749	88Els
$[\text{C}_{24}\text{H}_{24}\text{CrNO}_6]^{\bullet-}$ 	chemical reaction THF ESR / 293	2.00398 ^{14}N : 0.8 H : 0.21	89Pro

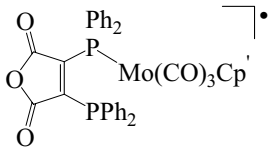
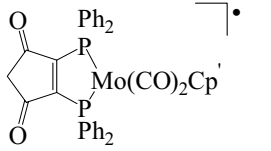
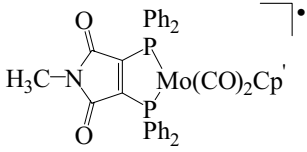
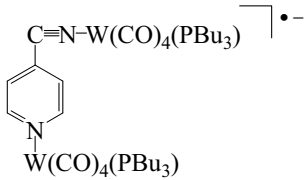
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{24}H_{24}MoNO_6]^{\bullet-}$ 	chemical reaction THF ESR / 293	2.00398 ^{14}N : 0.78 H: 0.2	89Pro
$[C_{25}H_{22}CrNO_5]^{\bullet}$ 	chemical reaction hexane ESR / 298 crystal structure, IR and UV-VIS spectroscopy, electrochemistry	^{14}N : 0.560 H(CH ₃ -p): 0.230 H(CH ₃ -o): 0.115 H(CH ₃ -m): 0.115	86Sei
$[C_{26}H_{33}MoN_3O_3]^{\bullet-}$ 	chemical reduction THF ESR / 298 electrochemistry, UV-VIS and IR spectroscopy	1.9980 ^{14}N : 0.680	86Bell
$[C_{26}H_{36}F_{12}Mo_2N_2O_{10}]^{2\bullet}$ 	chemical reaction powder ESR / RT magnetic susceptibility, UV-VIS spectroscopy	2.0048	86Fel
$[C_{27}H_{31}CrNOPSi]^{\bullet}$ 	chemical reaction hexane ESR / 298 crystal structure	1.9979 H(CH ₂ , a): 1.20 H(CH ₂ , b): 0.10 diastereotopic ^{31}P : 2.60 ^{14}N : 0.50 H(cp): 0.06	91Her

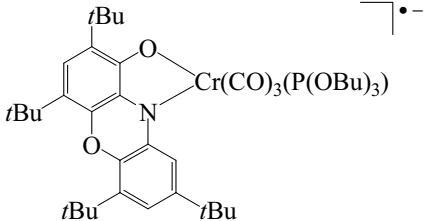
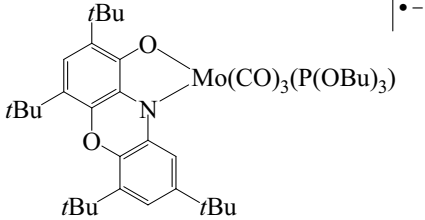
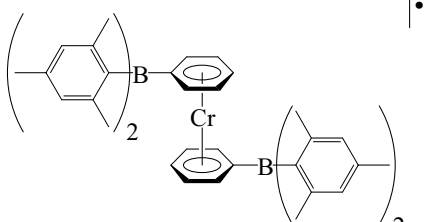
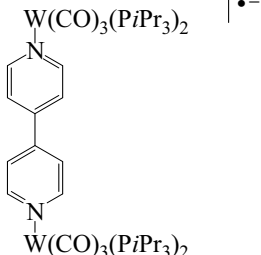
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{28}H_{18}Cr_2N_4O_8]^{•-}$ 	reduction with Bu_4NBH_4 acetone ESR / 298	2.0021 ^{14}N : 0.339	99Kle
$[C_{28}H_{18}Mo_2N_4O_8]^{•-}$ 	reduction with Bu_4NBH_4 acetone ESR / 298	2.0029 $^{95,97}Mo$: 0.247 ^{14}N : 0.335	99Kle
$[C_{28}H_{18}N_4O_8W_2]^{•-}$ 	reduction with Bu_4NBH_4 acetone ESR / 298	2.0036 ^{14}N : 0.330	99Kle
$[C_{30}H_{43}Mo_2N_5O_8P_2S_6]^•$  Ar = <i>p</i> -tolyl	photolysis in the presence of spin trap dichloromethane ESR / 298	2.006 ^{14}N : 0.339	91Liz
$[C_{31}H_{53}CrN_3O_4]^{•2+}$ 	electrochemically generated dichloromethane ESR / 10	no X band signal at Q band: 1.98 $ D = 0.52 \text{ cm}^{-1}$ $E/D = 0.05$	00Mül

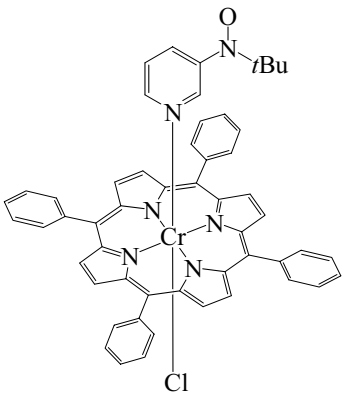
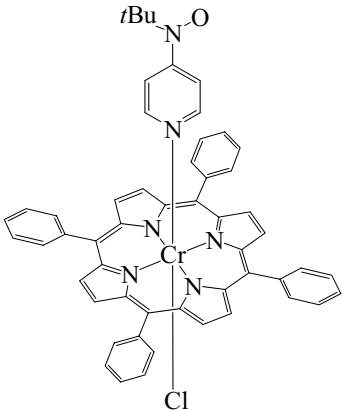
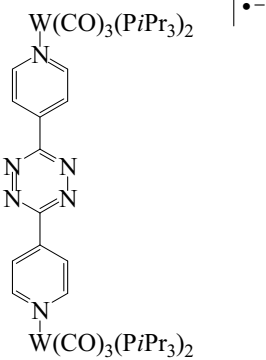
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{32}H_{22}MoN_8O_4Ru]^{\bullet+}$ 	electrochemically generated dichloroethane ESR	1.9964 ^{14}N : 0.24	91Mat1
$[C_{32}H_{39}CrNO_6]^{\bullet-}$ 	chemical reaction THF ESR / 298	2.0034 ^{53}Cr : 0.24 ^{14}N : 0.79 $H(3)$: 0.27 $H(7)$: 0.27 $H(9)$: 0.22	89Kar
$[C_{32}H_{39}MoNO_6]^{\bullet-}$ 	chemical reaction THF ESR / 298	2.0045 $^{95,97}Mo$: 0.38 ^{14}N : 0.78 $H(3)$: 0.28 $H(7)$: 0.28 $H(9)$: 0.22	89Kar
$[C_{32}H_{39}NO_6W]^{\bullet-}$ 	chemical reaction THF ESR / 298	2.0080 ^{183}W : 0.24 ^{14}N : 0.80 $H(3)$: 0.24 $H(7)$: 0.24 $H(9)$: 0.24	89Kar
$[C_{33}H_{21}MoN_4O_7PRe]^{\bullet}$ 	electrochemical generation dichloroethane ESR / 298	2.0022 $^{185,187}Re$: 1.7 ^{31}P : 1.7	91Mat2

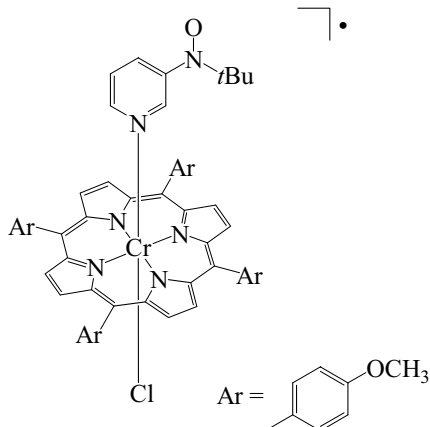
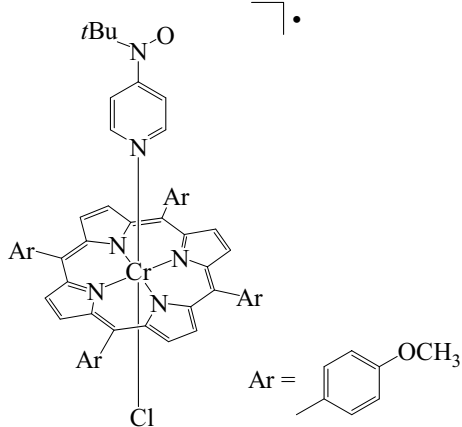
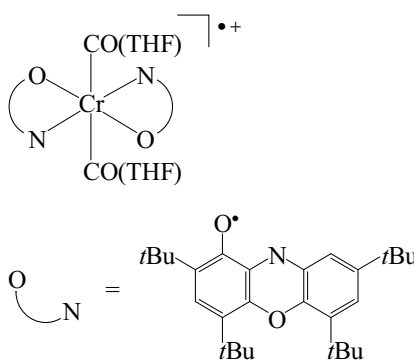
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{34}H_{51}Mo_2N_5O_8P_2S_6]^{\bullet}$  $R' = pr \quad Ar = m\text{-xyl}$	photolysis in the presence of spin trap dichloromethane ESR / 298 UV-VIS spectroscopy	2.007 ^{14}N : 0.339	91Liz
$[C_{34}H_{60}MoN_4O_2P_2]^{\bullet-}$ 	reduction with potassium metal THF ESR / 298 IR, UV-VIS and NMR spectroscopy, electrochemistry	2.007 ^{31}P : 3.40 $^{14}N(2)$: 0.44	88Ern2
$[C_{34}H_{60}MoN_4O_2P_2]^{\bullet-}$ 	reduction with potassium metal THF ESR / 298 IR, UV-VIS and NMR spectroscopy, electrochemistry	2.0024 $^{31}P(2 P)$: 1.974 $^{14}N(2 N)$: 0.283 $^{14}N(2 N)$: 0.24 $H(4 H)$: 0.14	88Ern2 86Kai3
$[C_{34}H_{60}MoN_4O_2P_2]^{\bullet-}$ 	reduction with potassium metal THF ESR / 298 IR, UV-VIS and NMR spectroscopy, electrochemistry	2.0017 ^{31}P : 3.55 $^{14}N(1)$: 0.43 $H(5)$: 0.43	88Ern2
$[C_{34}H_{60}MoN_4O_2P_2]^{\bullet-}$ 	reduction with potassium metal THF ESR / 298 IR, UV-VIS and NMR spectroscopy, electrochemistry	2.0014 ^{31}P : 1.593 $^{14}N(1)$: 0.18 $^{14}N(3)$: 0.18 $H(5)$: 0.488	88Ern2

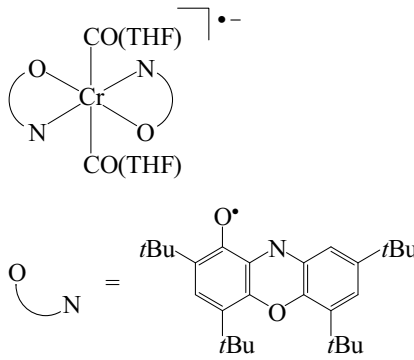
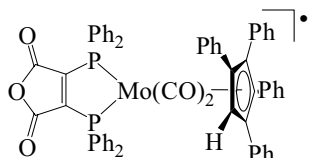
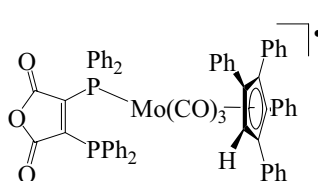
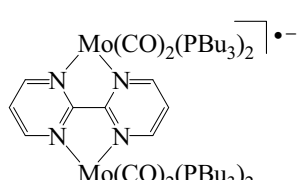
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{35}H_{25}MoO_5P_2]^{\bullet}$ 	irradiation of precursor in the presence of ligand THF ESR / 298 IR spectroscopy, electrochemistry	$^{31}P(1)$: 0.928 $^{31}P(2)$: 0.928	95Mey
$[C_{35}H_{44}MoNO_4]^{\bullet}$ 	chemical reaction THF ESR / 293 toluene ESR / 298	1.9950 $^{95,97}Mo$: 0.85 ^{14}N : 0.77 H: 0.23, 0.22, 0.19 ^{95}Mo : 0.85 ^{14}N : 0.77 H(3): 0.22 H(7): 0.22 H(9): 0.18	89Pro 89Kar
$[C_{35}H_{44}NO_4W]^{\bullet}$ 	chemical reaction THF ESR / 293	1.9851 ^{14}N : 0.66	89Pro
$[C_{36}H_{27}MoO_5P_2]^{\bullet}$ 	irradiation THF ESR / 298 dichloromethane ESR / 298 IR spectroscopy, electrochemistry	2.009 $^{31}P(1)$: 0.97 $^{31}P(2)$: 0.96 2.005 $^{95,97}Mo$: 0.068 $^{31}P(1)$: 0.826 $^{31}P(2)$: 0.826	95Mey 91Fei

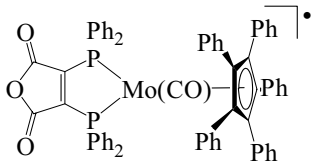
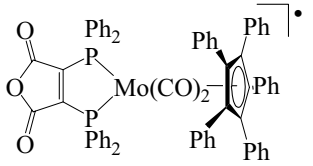
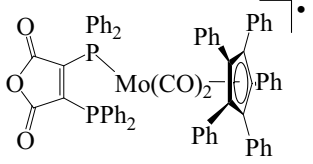
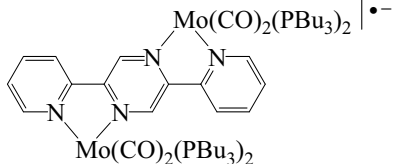
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{37}H_{27}MoO_6P_2]^{\bullet}$ 	irradiation of $Cp^*_2Mo_2(CO)_6$ in the presence of ligand THF ESR / 298 dichloromethane ESR / 298 IR spectroscopy, electrochemistry	2.008 $^{31}P(1)$: 1.00 $^{31}P(2)$: 0.38 2.004 $^{95,97}Mo$: 0.052 $^{31}P(1)$: 0.245 $^{31}P(2)$: 0.902	95Mey 91Fei
$[C_{37}H_{29}MoO_4P_2]^{\bullet}$ 	irradiation of $Cp^*_2Mo_2(CO)_6$ in the presence of ligand dichloromethane ESR / 298 IR spectroscopy, electrochemistry	2.004 $^{31}P(1)$: 1.01 $^{31}P(2)$: 1.01 $H(1)$: 0.29 $H(2)$: 0.29	95Mey
$[C_{37}H_{30}MoNO_4P_2]^{\bullet}$ 	irradiation of $Cp^*_2Mo_2(CO)_6$ in the presence of ligand THF ESR / 298 dichloromethane ESR / 298 IR spectroscopy, electrochemistry	2.006 $^{31}P(1)$: 0.96 $^{31}P(2)$: 0.96 2.007 $^{31}P(1)$: 0.94 $^{31}P(2)$: 0.94	95Mey 95Mey
$[C_{38}H_{58}N_2O_8P_2W_2]^{\bullet-}$ 	reduction with potassium metal acetonitrile ESR / 298 IR, UV-VIS and NMR spectroscopy, electrochemistry	2.0037 $^{31}P(1)$: 1.028 $^{31}P(4)$: 0.668 $^{14}N(1)$: 0.668 $^{14}N(CN)$: 0.334 $^{14}N(3,5)$: 0.164 $H(2,6)$: 0.216	89Olbl

Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{43}H_{66}CrNO_8P]^{\bullet-}$ 	chemical reaction THF ESR / 298	2.0040 ^{31}P : 5.67 ^{14}N : 0.73 $H(3)$: 0.21 $H(7)$: 0.21 $H(9)$: 0.21	89Kar
$[C_{43}H_{66}MoNO_8P]^{\bullet-}$ 	chemical reaction THF ESR / 298	2.0005 $^{95,97}Mo$: 0.76 ^{31}P : 3.78 ^{14}N : 0.78 $H(3)$: 0.24 $H(7)$: 0.24 $H(9)$: 0.24	89Kar
$[C_{46}H_{54}B_2Cr]^{\bullet-}$ 	electrochemical generation DME ESR / 238 electrochemistry, NMR spectroscopy	2.0058 ^{11}B : 0.78	96Els
$[C_{52}H_{94}N_2O_6P_4W_2]^{\bullet-}$ 	reduction with potassium metal in the presence of cryptand THF ESR / 298 electrochemistry, IR and UV-VIS spectroscopy, spectroelectrochemistry	2.0049 ^{183}W : 0.22 $H(2)$: 0.059 $H(3)$: 0.199 ^{31}P : 1.502 ^{14}N : 0.432	95Bru1

Substance	Generation / Matrix or Solvent / Method / <i>T</i> [K]	<i>g</i> -Factor / <i>a</i> -Value [mT]	Ref. / add. Ref.
$[C_{53}H_{41}ClCrN_6O]^{\bullet}$ 	chemical reaction solid state magnetic measurements	1.93	94Kit
$[C_{53}H_{41}ClCrN_6O]^{\bullet}$ 	chemical reaction solid state magnetic measurements	1.89	94Kit
$[C_{54}H_{94}N_6O_6P_4W_2]^{\bullet-}$ 	reduction with potassium metal in the presence of cryptand THF ESR / 298 electrochemistry, IR and UV-VIS spectroscopy, spectroelectrochemistry	2.0040 ¹⁴ N: 0.500	95Bru1

Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{57}H_{49}ClCrN_6O_5]^{\bullet}$ 	reaction of chlorochromiumporphyrin with 3NOpy solid state magnetic measurements	1.82	94Kit
$[C_{57}H_{49}ClCrN_6O_5]^{\bullet}$ 	chemical reaction solid state magnetic measurements	1.86	94Kit
$[C_{58}H_{78}CrN_2O_6]^{\bullet+}$ 	chemical reaction THF ESR / 298	1.9730 ^{53}Cr : 2.45 ^{14}N : 0.61	89Kar

Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{58}\text{H}_{78}\text{CrN}_2\text{O}_6]^{•-}$ 	chemical reaction THF ESR / 298	1.9660 ^{53}Cr : 2.45 ^{14}N : 0.47 H(3): 0.07 H(7): 0.07 H(9): 0.07	89Kar
$[\text{C}_{59}\text{H}_{41}\text{MoO}_5\text{P}_2]^{•}$ 	irradiation of precursor in the presence of ligand THF ESR / 298 IR spectroscopy, electrochemistry <i>o</i> -dichlorobenzene ESR / var. T	2.006 $^{95,97}\text{Mo}$: 0.085 ^{31}P (1): 0.906 ^{31}P (2): 1.007 2.0058 ^{31}P (1): 0.901 ^{31}P (2): 0.994 coalescence at higher T ^{31}P : 0.892	95Mey 91Fei 89Mao2
$[\text{C}_{60}\text{H}_{41}\text{MoO}_6\text{P}_2]^{•}$ 	irradiation of precursor in the presence of ligand THF ESR / 298 IR spectroscopy, electrochemistry	2.004 ^{31}P (1): 0.886 ^{31}P (2): 0.346	95Mey
$[\text{C}_{60}\text{H}_{114}\text{Mo}_2\text{N}_4\text{O}_4\text{P}_4]^{•-}$ 	electrochemically generated THF ESR / 298 electrochemistry, IR and UV-VIS spectroelectrochemistry	2.0011 ^{14}N : 0.225 ^{31}P : 1.440 H(5): 0.450	95Kai

Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{64}H_{45}MoO_4P_2]^{\bullet}$ 	irradiation of precursor in the presence of ligand THF ESR / 298 IR and UV-VIS spectroscopy	2.004 $^{31}P(1)$: 1.201 $^{31}P(2)$: 1.201	91Fei
$[C_{65}H_{45}MoO_5P_2]^{\bullet}$ 	irradiation of precursor in the presence of ligand THF ESR / 298 IR and UV-VIS spectroscopy	2.006 $^{95,97}Mo$: 0.075 $^{31}P(1)$: 1.038 $^{31}P(2)$: 1.038	91Fei
$[C_{65}H_{45}MoO_5P_2]^{\bullet}$ 	irradiation of precursor in the presence of ligand THF ESR / 298 IR and UV-VIS spectroscopy	2.003 $^{95,97}Mo$: 0.049 $^{31}P(1)$: 0.230 $^{31}P(2)$: 0.561	91Fei
$[C_{66}H_{118}Mo_2N_4O_4P_4]^{\bullet-}$ 	electrochemically generated THF ESR / 298 electrochemistry, IR and UV-VIS spectroelectrochemistry	2.0020 ^{31}P : 1.650	95Kai