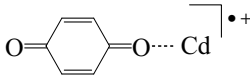
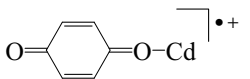
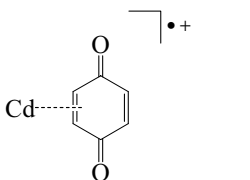
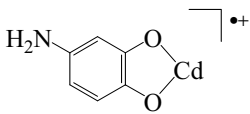
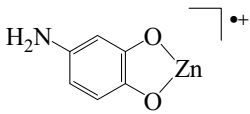
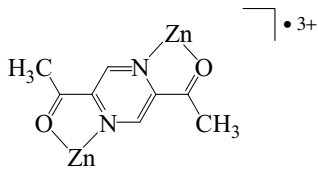
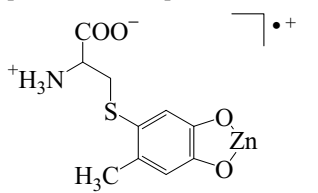
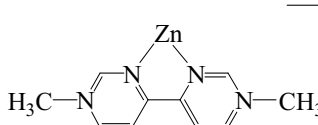
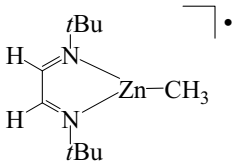
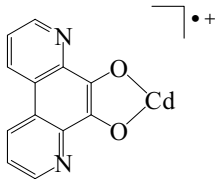
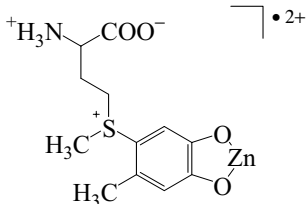
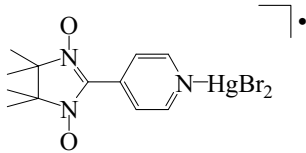
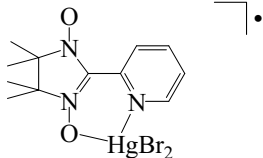
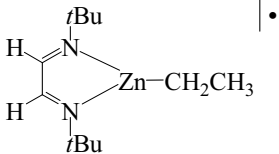
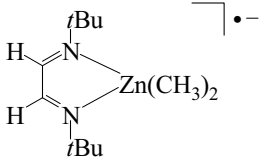
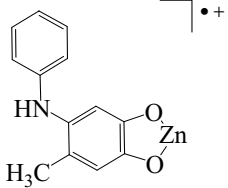
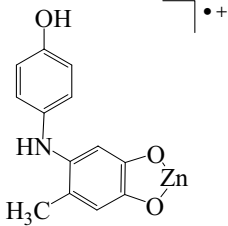
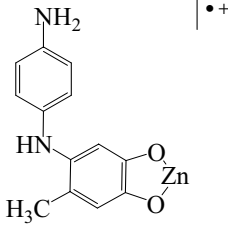
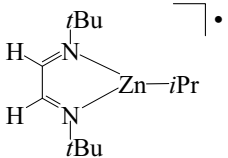
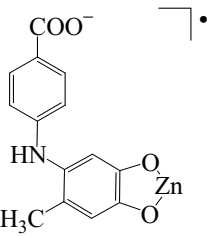
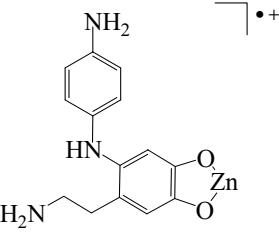
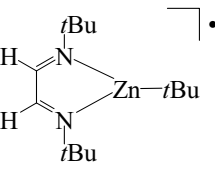
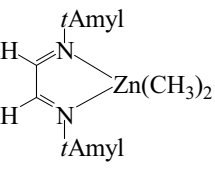
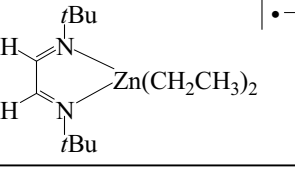


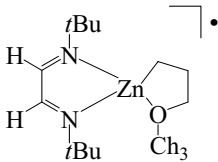
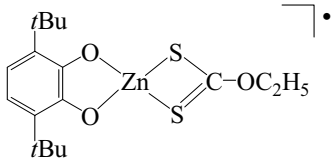
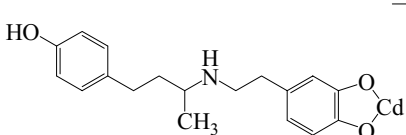
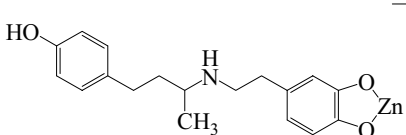
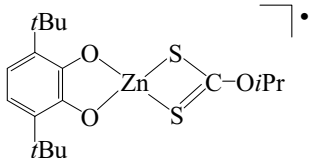
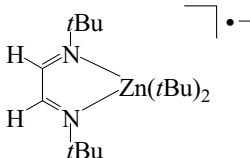
Substance	Generation / Matrix or Solvent / Method / <i>T</i> [K]	<i>g</i> -Factor / <i>a</i> -Value [mT]	Ref. / add. Ref.
3.13 Complexes of group 12 (Zn, Cd, Hg)			
$[\text{C}_6\text{H}_4\text{CdO}_2]^{\bullet+}$ 	chemical reduction THF ESR / 243	H(2 H): 0.324 H(2 H): 0.155	95Ste
$[\text{C}_6\text{H}_4\text{CdO}_2]^{\bullet+}$ 	chemical reduction THF ESR / 243	H(2 H): 0.337 H(2 H): 0.133	95Ste
$[\text{C}_6\text{H}_4\text{CdO}_2]^{\bullet+}$ 	chemical reduction THF ESR / 243	^{111,113} Cd: 0.686 H(4 H): 0.133	95Ste
$[\text{C}_6\text{H}_5\text{CdNO}_2]^{\bullet+}$ 	chemical reaction water, pH 6.6 ESR / 294	2.0033 ^{111,113} Cd: 0.497 ¹⁴ N: 0.351 H(3): 0.125 H(6): 0.055 H(5): 0.450 H(NH): 0.287 H(NH'): 0.302	88Pra
$[\text{C}_6\text{H}_5\text{NO}_2\text{Zn}]^{\bullet+}$ 	chemical reaction water, pH 6.6 ESR / 294	2.00366 ¹⁴ N: 0.354 H(3): 0.115 H(6): 0.050 H(5): 0.487 H(NH): 0.297 H(NH'): 0.313	88Pra
(continued)	temperature dependence		
	deuterated water, pH 6.6 ESR / 294	¹⁴ N: 0.344 H(3): 0.115 H(6): 0.050 H(5): 0.487 D(ND): 0.047 D(ND'): 0.047	

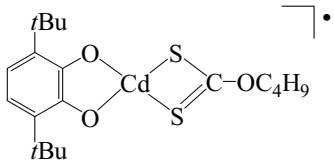
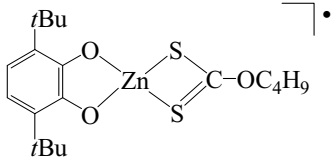
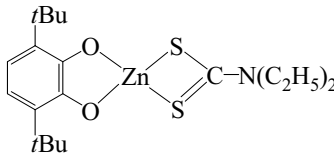
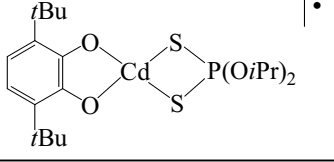
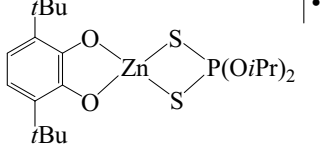
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_6\text{H}_5\text{NO}_2\text{Zn}]^{\bullet+}$ (<i>continued</i>)	water / ethanol 3:1 ESR / 294 water / ethanol 1:1 ESR / 294 water / dimethylsulfoxide 3:1 ESR / 294	^{14}N : 0.358 $\text{H}(3)$: 0.118 $\text{H}(6)$: 0.050 $\text{H}(5)$: 0.492 $\text{H}(\text{NH})$: 0.310 $\text{H}(\text{NH}')$: 0.327 ^{14}N : 0.366 $\text{H}(3)$: 0.122 $\text{H}(6)$: 0.053 $\text{H}(5)$: 0.503 $\text{H}(\text{NH})$: 0.328 $\text{H}(\text{NH}')$: 0.347 ^{14}N : 0.354 $\text{H}(3)$: 0.121 $\text{H}(6)$: 0.054 $\text{H}(5)$: 0.493 $\text{H}(\text{NH})$: 0.303 $\text{H}(\text{NH}')$: 0.322	
$[\text{C}_8\text{H}_8\text{N}_2\text{O}_2\text{Zn}_2]^{\bullet 3+}$ 	reduction of ligand with zinc metal dichloromethane ESR / 298 HMO calculations	2.0038 ^{14}N : < 0.01 $\text{H}(3,6)$: 0.064 $\text{H}(\text{CH}_3)$: 0.303	89Bes2
$[\text{C}_{10}\text{H}_{11}\text{NO}_4\text{Zn}]^{\bullet+}$ 	chemical oxidation water, acetate buffer, pH 3.0 ESR / RT	2.0041 $\text{H}(\text{aromatic}, 1 \text{ H})$: 0.05 $\text{H}(\text{sidechain}, 3 \text{ H})$: 0.44	87Kal
$[\text{C}_{10}\text{H}_{12}\text{N}_4\text{Zn}]^{\bullet 3+}$ 	reduction of ligand with zinc metal acetonitrile ESR / ENDOR / 293	2.0029 $^{14}\text{N}(1)$: 0.342 $\text{H}(\text{CH}_3)$: 0.359 $\text{H}(2)$: 0.016 $^{14}\text{N}(3)$: 0.129 $\text{H}(5)$: 0.113 $\text{H}(6)$: 0.306	94Mat

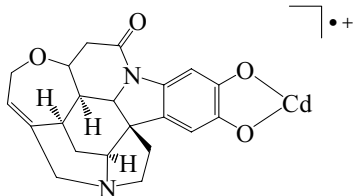
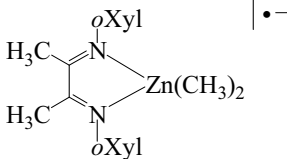
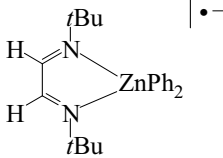
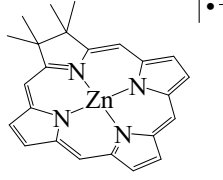
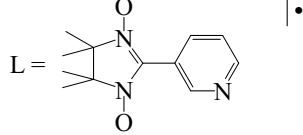
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{11}H_{23}N_2Zn]^{\bullet}$ 	photolysis hexane ESR / 300 benzene ESR / 300	^{14}N : 0.485 H: 0.585 H(ZnCH ₃): 0.050 ^{14}N : 0.485 H: 0.585 H(ZnCH ₃): 0.050	91Kau
$[C_{12}H_6CdN_2O_2]^{\bullet+}$ 	electrochemically generated THF ESR / 295 HMO calculations	2.0057 $^{111,113}Cd$: 0.08–0.09	92Boc1
$[C_{12}H_{15}NO_4SZn]^{\bullet+}$ 	chemical oxidation water, acetate buffer, pH 3.0 ESR / RT	2.0041 H(aromatic, 1 H): 0.04 H(sidechain, 3 H): 0.44	87Kal
$[C_{12}H_{16}Br_2HgN_3O_2]^{\bullet}$ 	chemical reaction benzene ESR / 300 crystal structure, magnetic properties	2.01 ^{14}N : 0.756	94Mat
$[C_{12}H_{16}Br_2HgN_3O_2]^{\bullet}$ 	chemical reaction benzene ESR / 300 crystal structure, magnetic properties	2.01 ^{14}N : 0.748	94Mat
$[C_{12}H_{25}N_2Zn]^{\bullet}$ 	photolysis diethylether ESR / 300	^{14}N : 0.491 H: 0.585 H(ZnCH ₃): 0.043	91Kau

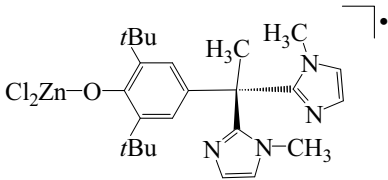
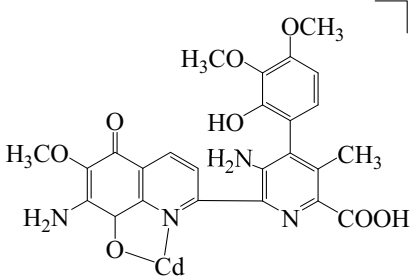
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{12}\text{H}_{26}\text{N}_2\text{Zn}]^{\bullet-}$ 	photolysis hexane ESR / 300	^{67}Zn : 0.179 ^{14}N : 0.552 $\text{H}(2\text{ H})$: 0.552 $^{13}\text{C}(6\text{ C})$: 0.298	91Kau
$[\text{C}_{13}\text{H}_{11}\text{NO}_2\text{Zn}]^{\bullet+}$ 	chemical oxidation water, acetate buffer, pH 5.0 ESR / RT	2.0035 ^{14}N : 0.39 $\text{H}(\text{sidechain}, 3\text{ H})$: 0.41 $\text{H}(\text{N-H})$: 0.39	87Kal
$[\text{C}_{13}\text{H}_{11}\text{NO}_3\text{Zn}]^{\bullet+}$ 	chemical oxidation water, acetate buffer, pH 5.0 ESR / RT	2.0035 ^{14}N : 0.39 $\text{H}(3)$: 0.028 $\text{H}(6)$: 0.087 $\text{H}(\text{ortho}, 2\text{ H})$: 0.052 $\text{H}(\text{meta}, 2\text{ H})$: 0.027 $\text{H}(\text{sidechain}, 3\text{ H})$: 0.41 $\text{H}(\text{N-H})$: 0.39	87Kal
$[\text{C}_{13}\text{H}_{12}\text{N}_2\text{O}_2\text{Zn}]^{\bullet+}$ 	chemical oxidation water, acetate buffer, pH 5.0 ESR / RT	2.0035 ^{14}N : 0.39 $\text{H}(\text{sidechain}, 3\text{ H})$: 0.41 $\text{H}(\text{N-H})$: 0.39	87Kal
$[\text{C}_{13}\text{H}_{27}\text{N}_2\text{Zn}]^{\bullet}$ 	photolysis diethylether ESR / 300	^{67}Zn : 0.18 ^{14}N : 0.490 $\text{H}(2\text{ H})$: 0.585 $\text{H}(\text{CH-}i\text{Pr})$: 0.026 $^{13}\text{C}(6\text{ C})$: 0.29	91Kau

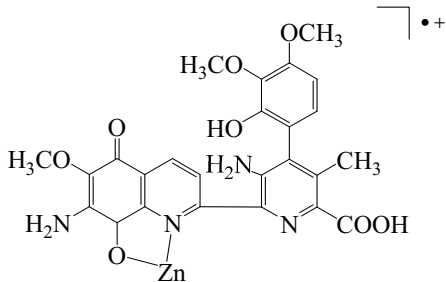
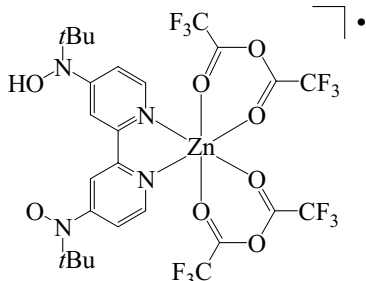
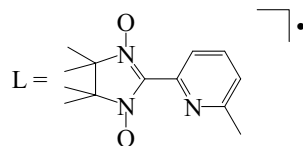
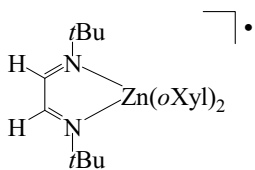
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{14}\text{H}_{10}\text{NO}_4\text{Zn}]^{\bullet}$ 	chemical oxidation water, acetate buffer, pH 5.0 ESR / RT	2.0035 ^{14}N : 0.39 H(sidechain, 3 H): 0.41 H(N-H): 0.39	87Kal
$[\text{C}_{14}\text{H}_{15}\text{N}_3\text{O}_2\text{Zn}]^{\bullet+}$ 	chemical oxidation water, acetate buffer, pH 5.0 ESR / RT	2.0035 ^{14}N : 0.39 H(sidechain, 3 H): 0.41 H(N-H): 0.39	87Kal
$[\text{C}_{14}\text{H}_{29}\text{N}_2\text{Zn}]^{\bullet}$ 	photolysis diethylether ESR / 300	^{14}N : 0.508 H: 0.578	91Kau
$[\text{C}_{14}\text{H}_{30}\text{N}_2\text{Zn}]^{\bullet-}$ 	photolysis THF ESR / 300	^{14}N : 0.552 H: 0.552	91Kau
$[\text{C}_{14}\text{H}_{30}\text{N}_2\text{Zn}]^{\bullet-}$ 	photolysis diethylether ESR / 300	^{14}N : 0.528 H: 0.560	91Kau

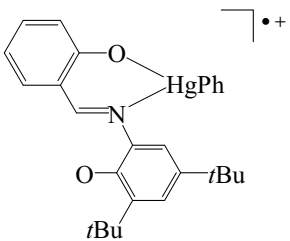
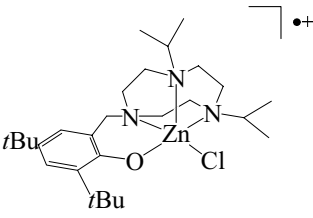
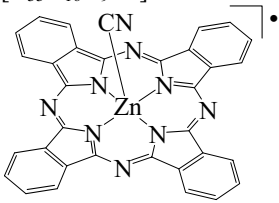
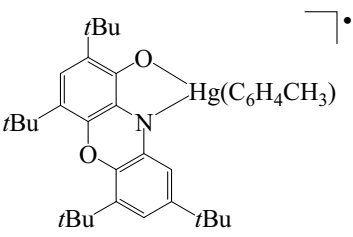
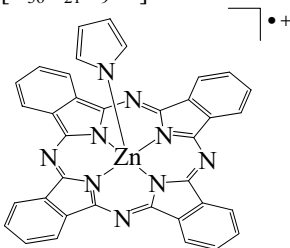
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{14}H_{31}N_2OZn]^{\bullet}$ 	chemical reduction diethylether ESR / 298	2.01 $^{14}N(2 N): 0.59$ $H(2 H): 0.49$	97Rij
$[C_{17}H_{25}O_3S_2Zn]^{\bullet}$ 	chemical reaction toluene ESR / 293	$H(4,5): 0.37$	88Rak
$[C_{18}H_{21}CdNO_3]^{\bullet+}$ 	chemical reaction acetate buffer, pH 5 ESR / RT	2.0035 $H(3): 0.0244$ $H(5): 0.3782$ $H(6): 0.0716$ $H(\alpha 1): 0.3412$ $H(\alpha 2): 0.3270$	96Fer
$[C_{18}H_{21}NO_3Zn]^{\bullet+}$ 	chemical reaction acetate buffer, pH 5 ESR / RT	2.0039 $H(3): 0.0185$ $H(5): 0.3862$ $H(6): 0.0661$ $H(\alpha 1): 0.3512$ $H(\alpha 2): 0.3342$	96Fer
$[C_{18}H_{27}O_3S_2Zn]^{\bullet}$ 	chemical reaction toluene ESR / 293	$H(4,5): 0.36$	88Rak
$[C_{18}H_{38}N_2Zn]^{\bullet-}$ 	photolysis diethylether ESR / 300	$^{14}N: 0.557$ $H: 0.557$	91Kau

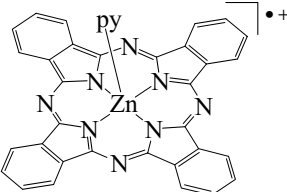
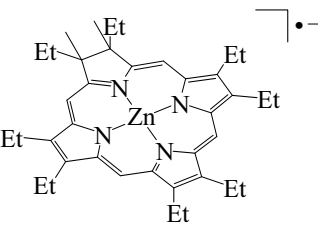
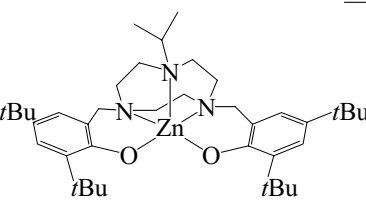
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{19}H_{29}CdO_3S_2]^{\bullet}$ 	chemical reaction THF ESR / 293	$^{111,113}Cd$: 0.78 $H(4,5)$: 0.34	88Rak
$[C_{19}H_{29}O_3S_2Zn]^{\bullet}$ 	chemical reaction carbon tetrachloride ESR / 293	^{67}Zn : 0.22 $H(4,5)$: 0.34	88Rak
$[C_{19}H_{30}NO_2S_2Zn]^{\bullet}$ 	chemical reaction toluene ESR / 293	$H(4,5)$: 0.37	88Rak
$[C_{20}H_{34}CdO_4PS_2]^{\bullet}$ 	chemical reaction carbon tetrachloride ESR / 293	$^{111,113}Cd$: 0.80 $H(4,5)$: 0.35	88Rak
$[C_{20}H_{34}O_4PS_2Zn]^{\bullet}$ 	chemical reaction carbon tetrachloride ESR / 293 toluene ESR / 293 THF ESR / 293	$H(4,5)$: 0.33 ^{31}P : 0.036 $H(4,5)$: 0.33 ^{31}P : 0.036 $H(4,5)$: 0.38 ^{31}P : 0.036	88Rak

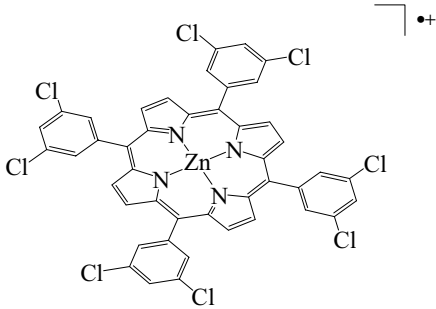
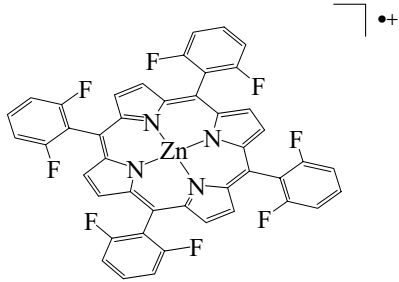
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{21}H_{22}CdN_2O_4]^{•+}$ 	chemical reduction dimethylformamide ESR / 295 HMO calculations	2.0036 $^{111,113}\text{Cd}$: 0.63	92Boc1
$[C_{22}H_{30}N_2Zn]^{•-}$ 	photolysis THF ESR / 300	^{14}N : 0.466 $\text{H}(\text{CH}_3)$: 0.672	91Kau
$[C_{22}H_{30}N_2Zn]^{•-}$ 	photolysis THF ESR / 300	^{67}Zn : 0.14 ^{14}N : 0.553 H : 0.553 ^{13}C (6 C): 0.287	91Kau
$[C_{24}H_{22}N_4Zn]^{•-}$ 	reduction with sodium metal THF ESR / 298 spin density calculations	$\text{H}(2,13)$: 0.1174 $\text{H}(3,12)$: 0.2538 $\text{H}(5,10)$: 0.2658 $\text{H}(15,20)$: 0.0639 $^{14}\text{N}(1',3')$: 0.0933 $^{14}\text{N}(2')$: 0.1938 $^{14}\text{N}(4')$: 0.2691	95Shu
$[C_{24}H_{32}Br_6Hg_3N_6O_4]^{•}$ $(\text{HgBr}_2)_3\text{L}_2^{•}$ $\text{L} =$ 	chemical reaction benzene ESR / 300 crystal structure, magnetic properties	2.01 ^{14}N : 0.767	94Mat

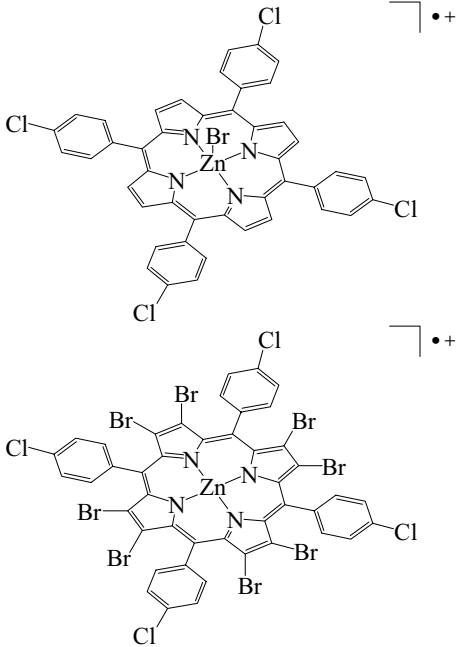
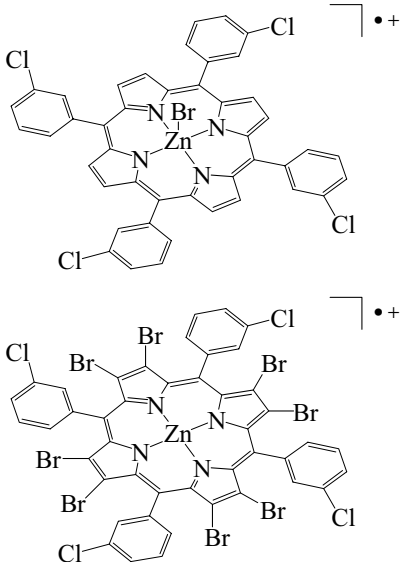
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{24}H_{33}Cl_2N_4OZn]^{\bullet}$ 	dichloromethane / THF 3:1 ESR / 10	2.00 no hyperfine structure	95Gol
$[C_{25}H_{22}CdN_4O_8]^{\bullet+}$ 	chemical reduction methanol / lithium hydroxide ESR / 298 MeOD / LiOD ESR / 298 dimethylsulfoxide / water ESR / 298 dimethylsulfoxide / deuterated water ESR / 298 dioxane / water ESR / 298	^{113}Cd (enriched): 0.432 $^{14}\text{N}(\text{NH}_2)$: 0.119 $\text{H}(\text{NH}_2)$: 0.100 $\text{H}(\text{NH}_2)$: 0.093 $\text{H}(3)$: 0.196 $\text{H}(4)$: 0.043 $^{14}\text{N}(1)$: 0.061 ^{113}Cd (enriched): 0.432 $^{14}\text{N}(\text{NH}_2)$: 0.119 $\text{D}(\text{ND}_2)$: 0.015 $\text{D}(\text{ND}_2)$: 0.014 $\text{H}(3)$: 0.196 $\text{H}(4)$: 0.043 $^{14}\text{N}(1)$: 0.066 $^{14}\text{N}(\text{NH}_2)$: 0.125 $\text{H}(\text{NH}_2)$: 0.106 $\text{H}(\text{NH}_2)$: 0.094 $\text{H}(3)$: 0.204 $\text{H}(4)$: 0.041 $^{14}\text{N}(1)$: 0.066 $^{14}\text{N}(\text{NH}_2)$: 0.125 $\text{D}(\text{ND}_2)$: 0.016 $\text{D}(\text{ND}_2)$: 0.014 $\text{H}(3)$: 0.204 $\text{H}(4)$: 0.041 $^{14}\text{N}(1)$: 0.066 $^{14}\text{N}(\text{NH}_2)$: 0.117 $\text{H}(\text{NH}_2)$: 0.094 $\text{H}(\text{NH}_2)$: 0.095 $\text{H}(3)$: 0.200 $\text{H}(4)$: 0.045 $^{14}\text{N}(1)$: 0.066	97Soe
(continued)			

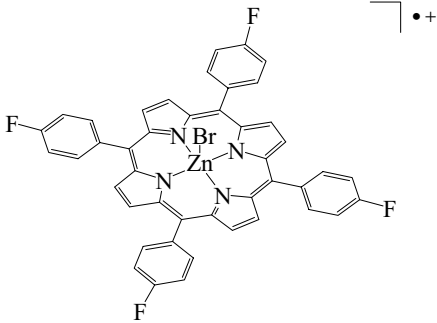
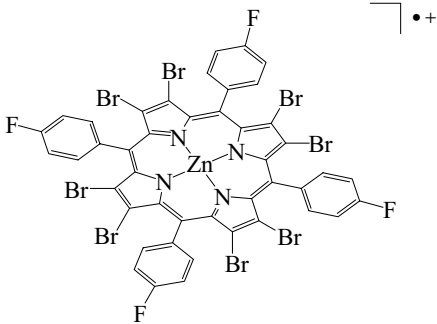
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{25}\text{H}_{22}\text{CdN}_4\text{O}_8]^{*-}$ (continued)	dioxane / deuterated water ESR / 298	$^{14}\text{N}(\text{NH}_2)$: 0.117 $\text{D}(\text{ND}_2)$: 0.015 $\text{D}(\text{ND}_2)$: 0.013 $\text{H}(3)$: 0.200 $\text{H}(4)$: 0.045 $^{14}\text{N}(1)$: 0.061	
$[\text{C}_{25}\text{H}_{22}\text{N}_4\text{O}_8\text{Zn}]^{*+}$ 	chemical reduction methanol / lithium hydroxide ESR / 298 MeOD / LiOD ESR / 298	$^{14}\text{N}(\text{NH}_2)$: 0.108 $\text{H}(\text{NH}_2)$: 0.109 $\text{H}(\text{NH}_2)$: 0.095 $\text{H}(3)$: 0.200 $\text{H}(4)$: 0.046 $^{14}\text{N}(1)$: 0.067 $^{14}\text{N}(\text{NH}_2)$: 0.108 $\text{D}(\text{ND}_2)$: 0.017 $\text{D}(\text{ND}_2)$: 0.015 $\text{H}(3)$: 0.200 $\text{H}(4)$: 0.046 $^{14}\text{N}(1)$: 0.067	97Soe
$[\text{C}_{26}\text{H}_{24}\text{F}_{12}\text{N}_4\text{O}_8\text{Zn}]^{\bullet}$ 	chemical reaction toluene ESR / 298 ESR / 6 IR spectroscopy, crystal structure, magnetic susceptibility	^{14}N : 1.02 $ D / hc = 0.0054 \text{ and } 0.0094 \text{ cm}^{-1}$	00Sak
$[\text{C}_{26}\text{H}_{36}\text{Br}_6\text{Hg}_3\text{N}_6\text{O}_4]^{\bullet}$ $(\text{HgBr}_2)_3\text{L}_2^{\bullet}$ 	chemical reaction benzene ESR / 300 crystal structure, magnetic properties	2.01 ^{14}N : 0.745	94Mat
$[\text{C}_{26}\text{H}_{38}\text{N}_2\text{Zn}]^{\bullet}$ 	photolysis diethylether ESR / 300	^{14}N : 0.470 H : 0.596	91Kau

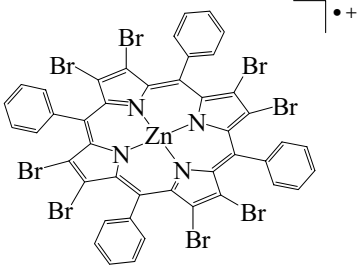
Substance	Generation / Matrix or Solvent / Method / <i>T</i> [K]	<i>g</i> -Factor / <i>a</i> -Value [mT]	Ref. / add. Ref.
$[C_{27}H_{30}HgNO_2]^{\bullet+}$ 	chemical oxidation THF ESR / 293	H(1): 0.25 H(2): 0.50 ¹⁴ N: 0.45	86Iva
$[C_{27}H_{48}ClN_3OZn]^{\bullet+}$ 	chemical oxidation dichloromethane / toluene 1:1 ESR / 77 crystal structure, UV-VIS and resonance Raman spectroscopy, electrochemistry	2.00	97Hal
$[C_{33}H_{16}N_9Zn]^{\bullet}$ 	electrochemical oxidation dichloromethane ESR / 79 electrochemistry, UV-VIS and MCD spectroscopy	2.0068	87Nyo
$[C_{35}H_{46}HgNO_2]^{\bullet}$ 	chemical reaction toluene ESR / 298	²⁰¹ Hg: 0.21 ¹⁴ N: 0.72 H(3): 0.31 H(7): 0.39 H(9): 0.21	89Kar
$[C_{36}H_{21}N_9Zn]^{\bullet+}$ 	electrochemical oxidation dichloromethane ESR / 79 electrochemistry, UV-VIS and MCD spectroscopy	2.0055	87Nyo

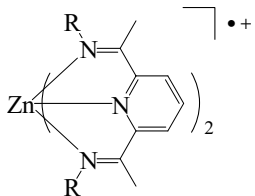
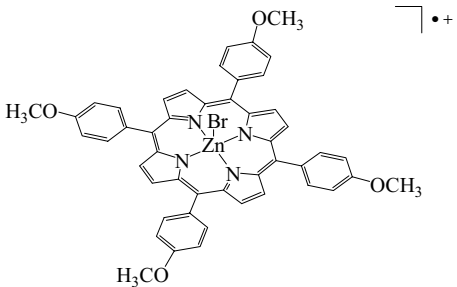
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{36}\text{H}_{44}\text{N}_4\text{Zn}]^{\bullet-}$ $[\text{Zn}(\text{OEP})]^{\bullet-}$	electrochemically generated butyronitrile ESR / 300 butyronitrile ESR / 77	$g = 1.9994$ $H(\text{meso}) = 0.273$ $g_{\perp} = 1.989$ $g_{\parallel} = 2.0027$ $a_{\perp} = 0.18$ $a_{\parallel} = 0.32$	94Set
$[\text{C}_{37}\text{H}_{22}\text{N}_9\text{Zn}]^{\bullet+}$ 	electrochemical oxidation dichloromethane ESR / 79	2.0059	87Nyo
$[\text{C}_{38}\text{H}_{50}\text{N}_4\text{Zn}]^{\bullet-}$ 	reduction with sodium metal THF ESR / 298	$H(5,10): 0.3365$ $H(15,20): 0.0666$ $^{14}\text{N}(1',3'): 0.0966$ $^{14}\text{N}(2'): 0.1635$ $^{14}\text{N}(4'): 0.2509$	95Shu
$[\text{C}_{39}\text{H}_{63}\text{N}_3\text{O}_2\text{Zn}]^{\bullet+}$ 	chemical oxidation dichloromethane / toluene 1:1 ESR / 77	2.00	97Hal

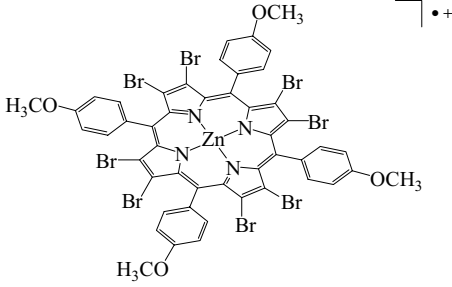
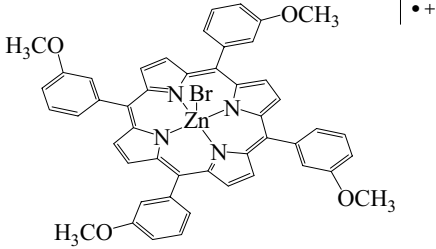
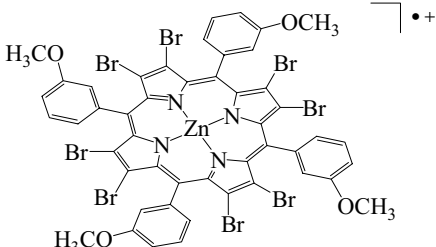
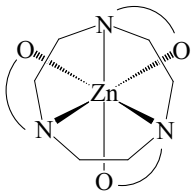
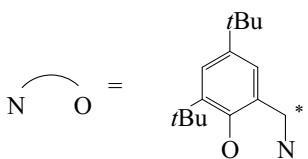
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{44}H_{20}Cl_8N_4Zn]^{\bullet+}$ (<i>continued</i>)	dichloromethane or acetonitrile / THF 9:1 ESR / 295	$g = 1.999$ $g_{\perp} = 2.003$ $g_{\parallel} = 1.991$ $a_{\perp}(^{14}N) = 0.054$ $a_{\parallel}(^{14}N) = 0.072$	
	dichloromethane ESR / 77	2.0082	91Tun
	chemical oxidation dichloromethane ESR / 298	2.0010	95Bar
electrochemistry, UV-VIS and resonance Raman spectroscopy			
$[C_{44}H_{20}Cl_8N_4Zn]^{\bullet+}$ 	chemical oxidation dichloromethane ESR / 298	2.0048 $^{14}N: 0.156$	95Bar
electrochemistry, UV-VIS and resonance Raman spectroscopy			
$[C_{44}H_{20}F_8N_4Zn]^{\bullet+}$ 	chemical oxidation dichloromethane ESR / 298	2.0034	95Bar
electrochemistry, UV-VIS and resonance Raman spectroscopy			

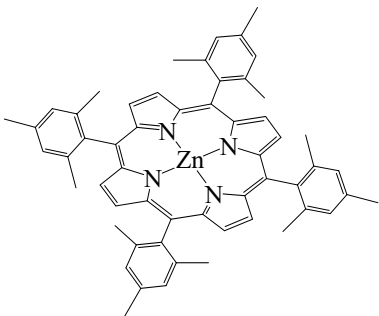
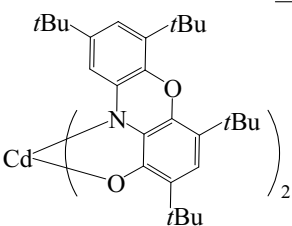
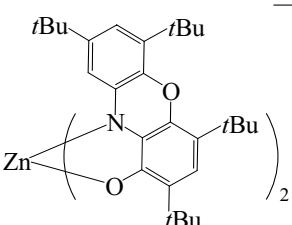
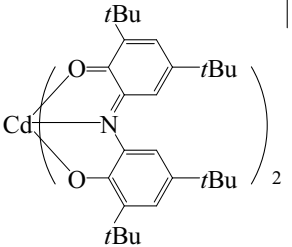
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{44}H_{24}Br_nCl_4N_4Zn]^{•+}$ 	chemical oxidation chloroform ESR / 298 chloroform ESR / 77 UV-VIS and NMR spectroscopy, electrochemistry	species 1: 2.0055 $^{79,81}Br = 0.830$ species 2: 2.0032 species 1: 2.0074 species 2: 2.0037	00Dav2
$[C_{44}H_{24}Br_nCl_4N_4Zn]^{•+}$ 	chemical oxidation chloroform ESR / 298 chloroform ESR / 77 UV-VIS and NMR spectroscopy, electrochemistry	species 1: 2.0057 $^{79,81}Br = 0.810$ species 2: 2.0035 species 1: 2.0076 species 2: 2.0039	00Dav2

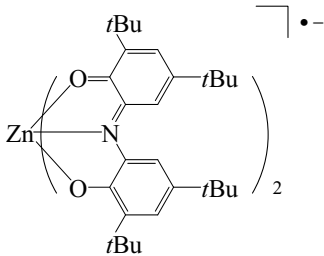
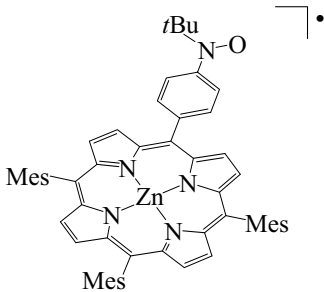
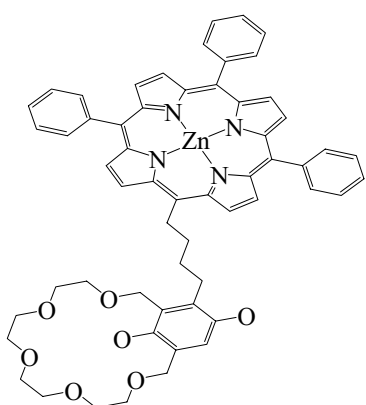
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{44}H_{24}Br_nF_4N_4Zn]^{•+}$  	chemical oxidation chloroform ESR / 298 chloroform ESR / 77 UV-VIS and NMR spectroscopy, electrochemistry	species 1: 2.0052 $^{79,81}\text{Br} = 0.820$ species 2: 2.0030 species 1: 2.0080 species 2: 2.0033	00Dav1 00Dav2
$[C_{44}H_{28}CdN_4]^{•-}$ $[Cd(TPP)]^{•-}$	electrochemically generated butyronitrile ESR / 300 butyronitrile ESR / 77 temperature dependence: data available from 10 K to 300 K	$g = 1.995$ $H(\beta) = 0.093$ $g_{\perp} = 1.980$ $g_{\parallel} = 2.0024$ $a_{\perp} = 0.057$ $a_{\parallel} = 0.11$	94Set

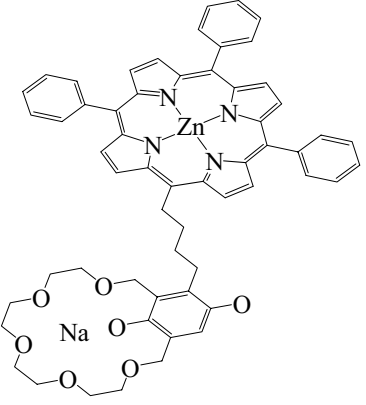
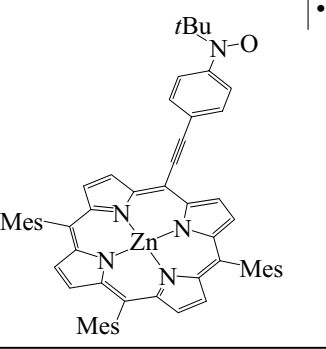
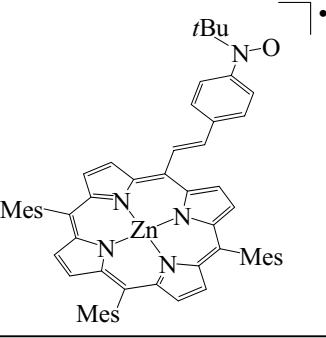
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{44}H_{28}Br_nN_4Zn]^{\bullet+}$ $[Zn(TPP)Br_n]^{\bullet+}$ 	chemical oxidation	species 1: 2.0050	00Dav1
	chloroform	$^{79,81}Br = 0.815$	00Dav2
	ESR / 298	species 2: 2.0028	
	chloroform ESR / 77	species 1: 2.0078 species 2: 2.0019	
UV-VIS and NMR spectroscopy, electrochemistry			
$[C_{44}H_{28}N_4Zn]^{\bullet+}$ $[Zn(TPP)]^{\bullet+}$	electrochemically or chemically generated	2.0027	90Hub
	dichloromethane		
	ESR / 200		
	ENDOR / 254 TRIPLE / 193	^{14}N : 4.20 MHz $H(\beta)$: -0.20 MHz $H(m)$: 0.79 MHz $H(p)$: -0.93 MHz $H(o)$: -1.16 MHz	
data available for dichloromethane-THF mixture			
$[C_{44}H_{28}N_4Zn]^{\bullet+}$ $[Zn(TPP)]^{\bullet+}$	chemical oxidation	2.0050	92Gro
	chloroform or dichloromethane		
	ESR / 298		
	UV-VIS and IR spectroscopy		
	electrochemically generated	2.0077	91Tun
	dichloromethane		
	ESR / 77		
	chemical oxidation	2.0027	95Bar
	dichloromethane	^{14}N : 0.146	
	ESR / 298		
electrochemistry, UV-VIS and resonance Raman spectroscopy			

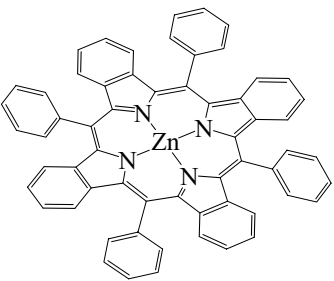
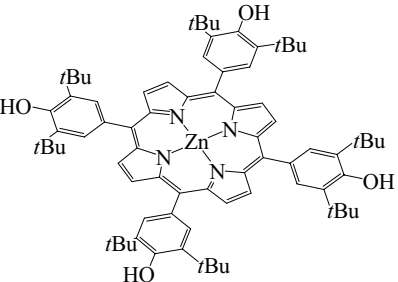
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{44}H_{28}N_4Zn]^{•-}$ $[Zn(PPP)]^{•-}$	electrochemically generated butyronitrile ESR / 300 butyronitrile ESR / 77	$g = 1.9986$ $H(\beta) = 0.093$ $g_{\perp} = 1.989$ $g_{\parallel} = 2.0034$ $a_{\perp} = 0.057$ $a_{\parallel} = 0.11$	94Set
data available for isotopomers (β - d_8 ; meso- ^{13}C ; $^{15}N_4$) and other solvents (THF, dimethylformamide); temperature dependence data available from 10 K to 300 K			
$[C_{46}H_{46}N_6O_2Zn]^{•+}$  $R = \text{---} \text{C}_6\text{H}_4 \text{---} \text{OCH}_3$	electrochemically generated acetonitrile ESR / 298 acetonitrile ESR / 10	2.0008 2.0045	00DeB
crystal structure, electrochemistry, UV-VIS spectroelectrochemistry, NMR spectroscopy			
$[C_{48}H_{36}BrN_4O_4Zn]^{•+}$  $R = \text{---} \text{C}_6\text{H}_4 \text{---} \text{OCH}_3$	chemical oxidation chloroform ESR / 298	species 1: 2.0048 $^{79,81}Br = 0.761$ species 2: 2.0028	00Dav1 00Dav2
(continued)			

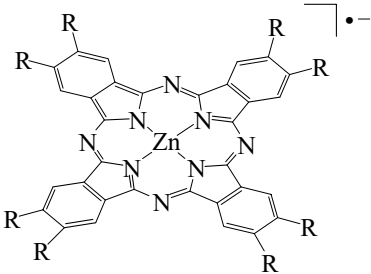
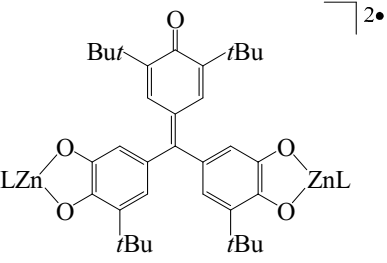
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{48}H_{36}Br_nN_4O_4Zn]^{\bullet+}$ (<i>continued</i>) 	chloroform ESR / 77	species 1: 2.0075 species 2: 2.0029	
UV-VIS and NMR spectroscopy, electrochemistry			
$[C_{48}H_{36}Br_nN_4O_4Zn]^{\bullet+}$  	chemical oxidation chloroform ESR / 298 chloroform ESR / 77	species 1: 2.0052 ^{79,81}Br = 0.820 species 2: 2.0030 species 1: 2.0080 species 2: 2.0033	00Dav2
UV-VIS and NMR spectroscopy, electrochemistry			
$[C_{51}H_{80}N_3O_3Zn]^{\bullet 2+}$  	electrochemically generated acetonitrile ESR / 298 deuteriert (d_6) in * position	2.0045 H(1 H): 0.586 D(1 D): 0.09	97Sok1
electrochemistry, UV-VIS and resonance Raman spectroscopy			

Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{56}H_{52}N_4Zn]^{•+}$ 	chemical oxidation chloroform or dichloromethane ESR / 298 UV-VIS and IR spectroscopy chemical oxidation dichloromethane ESR / 298 electrochemistry, UV-VIS and resonance Raman spectroscopy	2.0068 2.0031 ^{14}N : 0.175	92Gro 95Bar
$[C_{56}H_{78}CdN_2O_4]^{2•}$ 	chemical reduction ESR / 77	$D = 11.0$ mT $D = 19.0$ mT	89Kar
$[C_{56}H_{78}N_2O_4Zn]^{2•}$ 	chemical reduction ESR / 77	$D = 18.8$ mT $D = 32.9$ mT	89Kar
$[C_{56}H_{80}CdN_2O_4]^{•-}$ 	electrochemical reduction dichloromethane ESR / RT electrochemistry, UV-VIS spectroscopy	2.003 ^{14}N : 0.65 H : 0.21	90Mai

Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{56}H_{80}N_2O_4Zn]^{\bullet-}$ 	electrochemical reduction dichloromethane ESR / RT	2.003 ^{14}N : 0.70 H: 0.19	90Mai
$[C_{57}H_{54}N_3OZn]^{\bullet}$ 	chemical reaction toluene ESR / 298	^{14}N : 1.199 H(o): 0.208 H(m): 0.087	98Shu1
$[C_{58}H_{52}N_4O_7Zn]^{\bullet-}$ 	chemical generation methanol ENDOR / 230	H(2 β , 2 H): 0.119 H(3 β): 0.0845 H(3 β): 0.0957 H(5 β , 1 H): 0.161 H(6): -0.231 H(γ , 4 H): 0.012	95Kur
	structure from molecular model calculations		

Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{58}\text{H}_{52}\text{N}_4\text{NaO}_7\text{Zn}]^\bullet$ 	chemical generation methanol ENDOR / 250	^{23}Na : 0.106 $\text{H}(2\beta, 2\text{H})$: 0.125 $\text{H}(3\beta)$: 0.069 $\text{H}(3\beta)$: 0.098 $\text{H}(5\beta, 1\text{H})$: 0.180 $\text{H}(6)$: -0.222 $\text{H}(\gamma, 4\text{H})$: 0.012	95Kur
$[\text{C}_{59}\text{H}_{54}\text{N}_5\text{OZn}]^\bullet$ 	chemical reaction toluene ESR / 298	^{14}N : 1.123 $\text{H}(\text{o})$: 0.224 $\text{H}(\text{m})$: 0.099	98Shu1
$[\text{C}_{59}\text{H}_{56}\text{N}_5\text{OZn}]^\bullet$ 	chemical reaction toluene ESR / 298	^{14}N : 1.144 $\text{H}(\text{o})$: 0.216 $\text{H}(\text{m})$: 0.094 $\text{H}(\text{CH}_2)$: 0.099 $\text{H}(\text{CH}_2)$: 0.131	98Shu1

Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{60}H_{36}N_4Zn]^{\bullet+}$ 	electrochemical oxidation toluene- d_8 ESR / 298 $^{15}N_4$ -substituted	$^{14}N(4 N)$: 0.078 $H(8 H, o\text{-phenyl})$: 0.054 $H(8 H, m\text{-}, p\text{-phenyl})$: 0.037 $^{15}N(4 N)$: 0.108 $H(8 H, o\text{-phenyl})$: 0.054 $H(8 H, m\text{-}, p\text{-phenyl})$: 0.018	90Ren
$[C_{76}H_{92}N_4O_4Zn]^{\bullet+}$ 	air oxidation basic dichloromethane ESR / 298	2.0078	88Mil
$[C_{82}H_{50}N_8Zn_2]^{\bullet+}$ $[Zn(TPP\text{-}p\text{-}TPP)]^{\bullet+}$	electrochemically or chemically generated dichloromethane ESR / 200 ENDOR / 254 TRIPLE / 193	2.0027 ^{14}N : 0.078 H : 0.015 H : 0.022	90Hub
$[C_{82}H_{50}N_8Zn_2]^{\bullet+}$ $[Zn(TPP\text{-}m\text{-}TPP)]^{\bullet+}$	electrochemically or chemically generated dichloromethane ESR / 200 ENDOR / 254 TRIPLE / 193	2.0027 ^{14}N : 0.075 H : -0.007 H : 0.033 H : 0.021	90Hub

Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{89}\text{H}_{56}\text{N}_8\text{Zn}_2]^{\bullet+}$ $[\text{Zn}(\text{TPP}-\text{CH}_2-\text{TPP})]^{\bullet+}$	electrochemically or chemically generated dichloromethane ESR / 200 ENDOR / 254 TRIPLE / 193	2.0027 ^{14}N : 0.149 H: 0.027 H: 0.041	90Hub
$[\text{C}_{92}\text{H}_{116}\text{N}_8\text{Zn}]^{\bullet-}$  $\text{R} = \text{CHO}(\text{CH}_2)_{11}\text{CH}_3$	electrochemical reduction 1,2-dichloroethane ESR / 298 electrochemistry	2.0025	91Gir
$[\text{C}_{113}\text{H}_{133}\text{B}_2\text{N}_{12}\text{O}_5\text{Zn}_2]^{2\bullet}$  $\text{L} = \text{HB} \left(\text{N} \begin{array}{c} \diagup \text{C} \diagdown \\ \diagdown \text{C} \diagup \end{array} \text{C}_6\text{H}_4 \text{C(CH}_3)_3 \right)_3$	reaction with PbO_2 2-methyl-THF ESR / 77 UV-VIS spectroscopy	$g_x = g_y = 2.00232$ $g_z = 2.00350$	99Shu