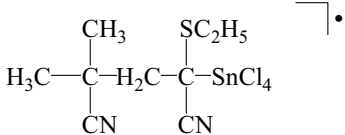
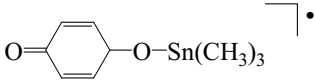
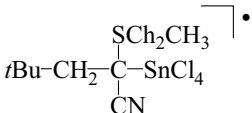
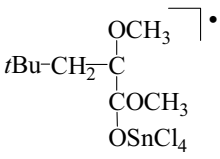
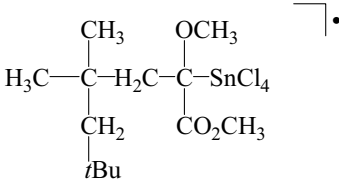
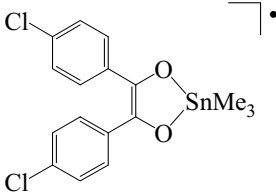
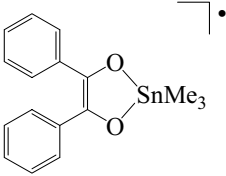
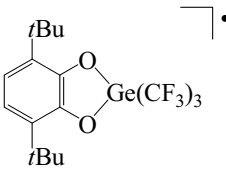
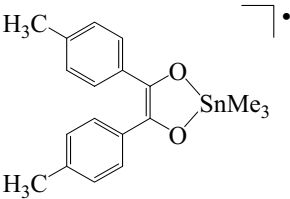
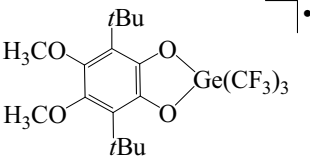
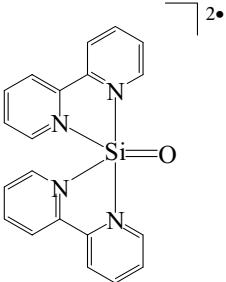
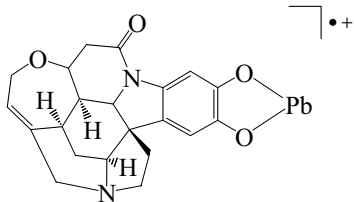
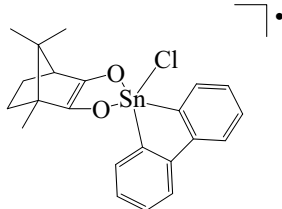
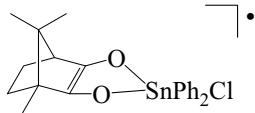
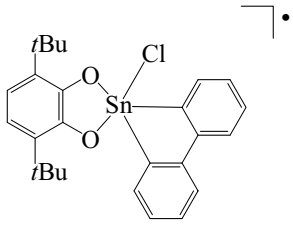
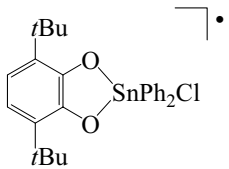
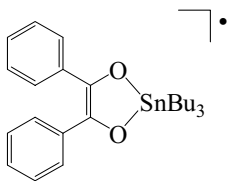
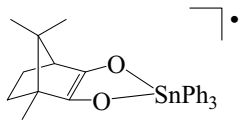
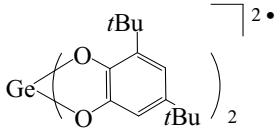
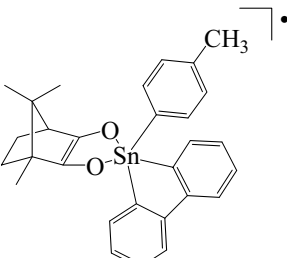
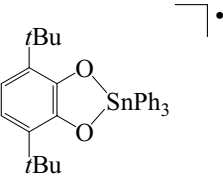
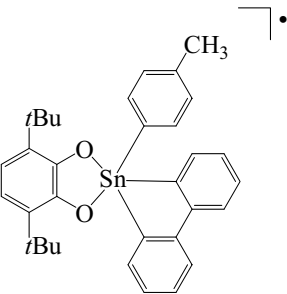


Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
3.15 Complexes of group 14 (Ge, Sn, Pb)			
$[\text{C}_9\text{H}_{13}\text{Cl}_4\text{N}_2\text{SSn}]^\bullet$ 	chemical reaction chlorobenzene ESR / 378	$H(\beta)$: 0.834 $H(\gamma)$: 0.301 $^{14}\text{N}(\delta)$: 0.345	85Tan
$[\text{C}_9\text{H}_{13}\text{O}_2\text{Sn}]^\bullet$ 	photochemical reaction benzene ESR / 283	2.0051 $H(A)$: 0.042 $H(B)$: 0.527	90Mar
$[\text{C}_9\text{H}_{16}\text{Cl}_4\text{NSSn}]^\bullet$ 	pyrolysis of dimer chlorobenzene ESR / 378	2.0056 $H(\beta)$: 0.880 $H(\gamma)$: 0.281 $^{14}\text{N}(\delta)$: 0.390	86Tan2
$[\text{C}_9\text{H}_{17}\text{Cl}_4\text{O}_3\text{Sn}]^\bullet$ 	chemical reaction chlorobenzene ESR / 296	$^{117,119}\text{Sn}$: 0.816 ^{35}Cl : 0.025 ^{37}Cl : 0.021 $H(\beta)$: 0.746 $H(\beta)$: 1.030 $H(\gamma)$: 0.239 $H(\delta)$: 0.227	86Tan1
temperature dependence, equilibrium data			
$[\text{C}_{13}\text{H}_{25}\text{Cl}_4\text{O}_3\text{Sn}]^\bullet$ 	pyrolysis of dimer chlorobenzene ESR / 297	$H(\beta)$: 1.02 $H(\beta)$: 0.794 $H(\gamma)$: 0.245 $H(\delta)$: 0.212	87Tan
$[\text{C}_{17}\text{H}_{17}\text{Cl}_2\text{O}_2\text{Sn}]^\bullet$ 	photochemical reaction benzene ESR / 283	2.0045 $H(o)$: 0.112 $H(m)$: 0.049	90Mar

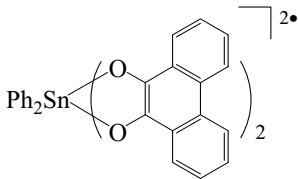
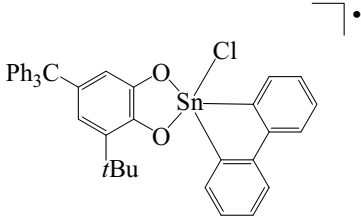
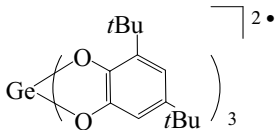
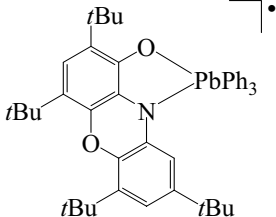
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{17}H_{19}O_2Sn]^{\bullet}$ 	photochemical reaction benzene ESR / 283	2.0044 ^{117}Sn : 0.807 ^{119}Sn : 0.849 $H(o,p)$: 0.111 $H(m)$: 0.045	90Mar
$[C_{17}H_{20}F_9GeO_2]^{\bullet}$ 	thermolysis toluene ESR / 290	2.0033 ^{73}Ge : 0.091 ^{19}F (9F): 0.032 $H(4,5)$: 0.425	95Aba
$[C_{19}H_{23}O_2Sn]^{\bullet}$ 	photochemical reaction benzene ESR / 283	2.0041 $H(o)$: 0.130 $H(m)$: 0.048 $H(CH_3)$: 0.113	90Mar
$[C_{19}H_{24}F_9GeO_4]^{\bullet}$ 	thermolysis toluene ESR / 290	2.0033 ^{73}Ge : 0.090 ^{19}F (9F): 0.035 $H(Me, 6H)$: 0.017	95Aba
$[C_{20}H_{16}N_4OSi]^{2\bullet}$ 	chemical reaction THF ESR / 77 adamantane ESR / 77 electronic and vibrational spectroscopy	2.003 $D = 15.8$ mT 2.002 $D = 17.6$ mT	91Row

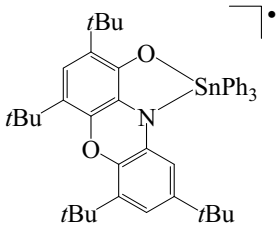
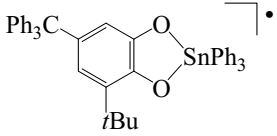
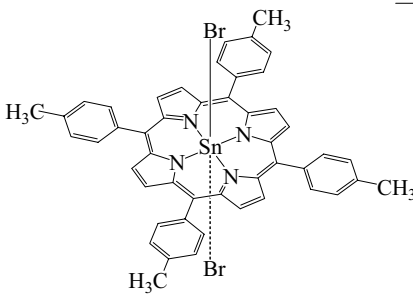
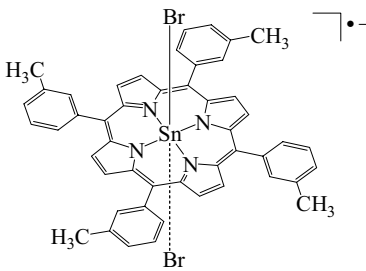
Substance	Generation / Matrix or Solvent / Method / <i>T</i> [K]	<i>g</i> -Factor / <i>a</i> -Value [mT]	Ref. / add. Ref.
$[C_{21}H_{22}N_2O_4Pb]^{\bullet+}$ 	chemical reduction dimethylformamide ESR / 295 HMO calculations	1.9976 ^{207}Pb : 2.56	92Boc1
$[C_{22}H_{24}ClO_2Sn]^{\bullet}$ 	photochemical reaction toluene ESR / 233	species 1: H(1): 0.015 H(4): 0.236 H(5): 0.440 H(6): 0.248 H(7): 0.072 species 2: H(1): 0.015 H(4): 0.263 H(5): 0.411 H(6): 0.321 H(7): 0.072	92Reb
$[C_{22}H_{26}ClO_2Sn]^{\bullet}$ 	photochemical reaction toluene ESR / 233	species 1: H(1): 0.014 H(4): 0.244 H(5): 0.422 H(6): 0.264 H(7): 0.074 species 2: H(1): 0.014 H(4): 0.278 H(5): 0.390 H(6): 0.309 H(7): 0.074	92Reb

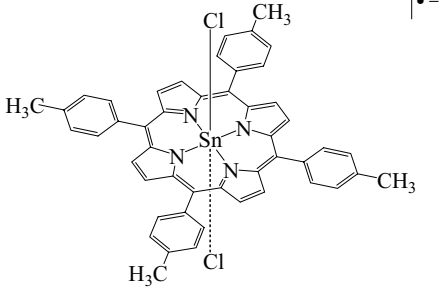
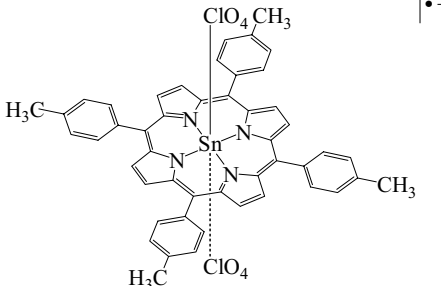
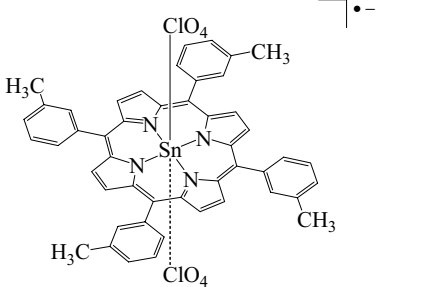
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{26}\text{H}_{28}\text{ClO}_2\text{Sn}]^\bullet$ 	chemical reaction toluene ESR / 443 toluene ESR / 295	 ^{117}Sn : 1.52 ^{119}Sn : 1.58 H(4): 0.37 H(5): 0.37 ^{117}Sn : 1.59 ^{119}Sn : 1.66 H(4): 0.49 H(5): 0.26	88Ste1
$[\text{C}_{26}\text{H}_{30}\text{ClO}_2\text{Sn}]^\bullet$ 	chemical reaction toluene ESR / 463 toluene ESR / 295	 $^{117,119}\text{Sn}$: 1.46 H(4): 0.378 H(5): 0.378 ^{117}Sn : 1.603 ^{119}Sn : 1.698 H(4): 0.476 H(5): 0.282	88Ste1
$[\text{C}_{26}\text{H}_{37}\text{O}_2\text{Sn}]^\bullet$ 	photochemical reaction benzene ESR / 283	H(o,p): 0.110 H(m): 0.046	90Mar
$[\text{C}_{28}\text{H}_{31}\text{O}_2\text{Sn}]^\bullet$ 	photochemical reaction toluene ESR / 233	H(1): 0.013 H(4): 0.275 H(5): 0.338 H(6): 0.327 H(7): 0.070	92Reb
$[\text{C}_{28}\text{H}_{40}\text{GeO}_4]^{2\bullet}$ 	chemical reaction powder ESR / 77 UV-VIS spectroscopy, electrochemistry	2.008 D / G : 155 E / G : 7	01ElH

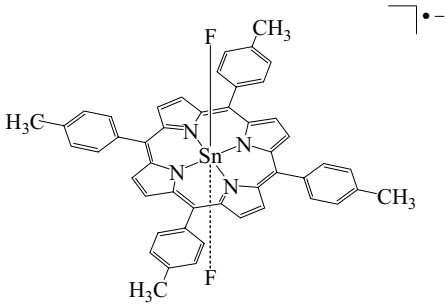
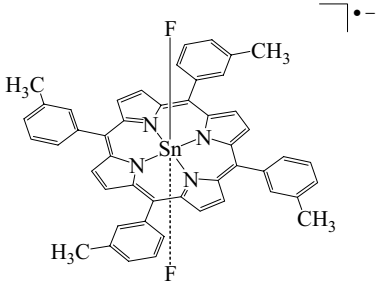
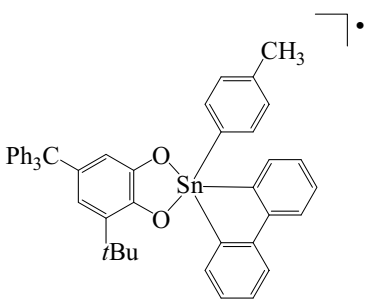
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{29}H_{31}O_2Sn]^{\bullet}$ 	photochemical reaction toluene ESR / 293	H(1): 0.012 H(4): 0.276 H(5): 0.334 H(6): 0.321 H(7): 0.071	92Reb
$[C_{32}H_{35}O_2Sn]^{\bullet}$ 	chemical reaction toluene ESR / 295 <i>n</i> -pentane ESR / 295	$^{117,119}Sn$: 1.14 H(4): 0.365 H(5): 0.365 ^{117}Sn : 1.17 ^{119}Sn : 1.22 H(4): 0.52 H(5): 0.21	88Ste1
$[C_{33}H_{35}O_2Sn]^{\bullet}$ 	chemical reaction <i>n</i> -pentane ESR / 295 <i>n</i> -pentane ESR / 223 <i>n</i> -pentane ESR / 173 toluene ESR / 295 toluene ESR / 193	^{117}Sn : 1.16 ^{119}Sn : 1.22 H(4): 0.365 H(5): 0.365 ^{117}Sn : 1.26 ^{119}Sn : 1.32 H(4): 0.365 H(5): 0.365 ^{117}Sn : 1.31 ^{119}Sn : 1.37 H(4): 0.47 H(5): 0.26 ^{117}Sn : 1.16 ^{119}Sn : 1.22 H(4): 0.365 H(5): 0.365 ^{117}Sn : 1.31 ^{119}Sn : 1.37 H(4): 0.47 H(5): 0.265	88Ste1

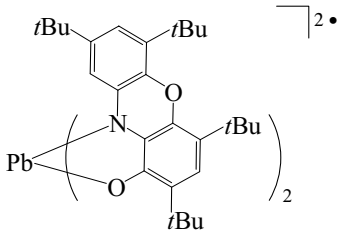
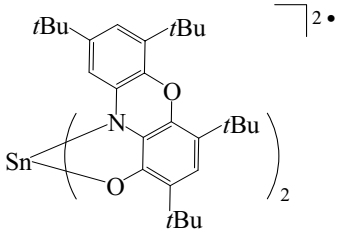
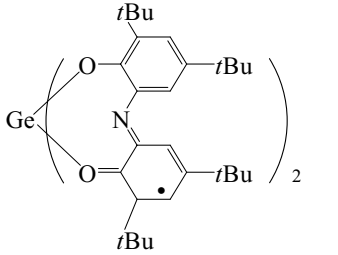
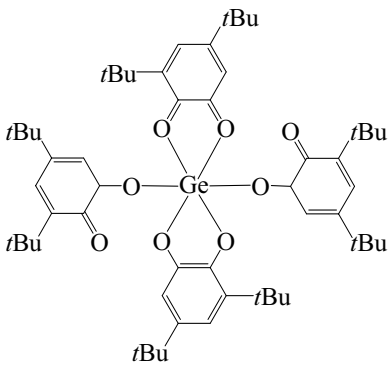
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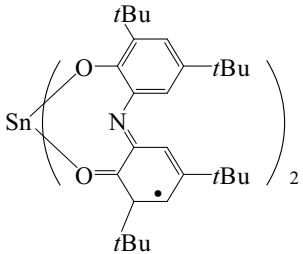
Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{33}H_{35}O_2Sn]^{\bullet}$ (<i>continued</i>)	pyridine ESR / 295 pyridine ESR / 223	^{117}Sn : 1.155 ^{119}Sn : 1.20 H(4): 0.365 H(5): 0.365 H(4): 0.47 H(5): 0.27	
$[C_{40}H_{26}O_4Sn]^{2\bullet}$ 	chemical reaction frozen dichloromethane ESR / not given crystal structure	$D = 104 \times 10^{-4} \text{ cm}^{-1}$	97Bat
$[C_{41}H_{34}ClO_2Sn]^{\bullet}$ 	chemical reaction xylene ESR / 434 toluene ESR / 253	^{117}Sn : 1.48 ^{119}Sn : 1.54 H(4): 0.355 H(6): < 0.03 species 1: H(4): 0.27 H(6): 0.077 species 2: H(4): 0.47 H(6): 0.043	88Ste1
$[C_{42}H_{60}GeO_6]^{2\bullet}$ 	chemical reaction powder ESR / 77 UV-VIS spectroscopy, electrochemistry	2.007 D : 17.5 mT E : 1.0 mT	01ElH
$[C_{46}H_{54}NO_2Pb]^{\bullet}$ 	chemical reaction toluene ESR / 298	^{207}Pb : 0.66 ^{14}N : 0.79 H(3): 0.34 H(7): 0.41 H(9): 0.24	89Kar

Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{46}H_{54}NO_2Sn]^{\bullet}$ 	chemical reaction toluene ESR / 298	^{117}Sn : 0.165 ^{14}N : 0.79 $H(3)$: 0.35 $H(7)$: 0.41 $H(9)$: 0.24	89Kar
$[C_{47}H_{41}O_2Sn]^{\bullet}$ 	chemical reaction toluene ESR / 295 toluene ESR / 243	^{117}Sn : 0.97 ^{119}Sn : 1.015 $H(4)$: 0.283 $H(6)$: 0.043 ^{117}Sn : 0.956 ^{119}Sn : 0.998 $H(4)$: 0.282 $H(6)$: 0.48	88Ste1
$[C_{48}H_{36}Br_2N_4Sn]^{\bullet-}$ 	electrochemically generated THF ESR / 115 electrochemistry, UV-VIS spectroscopy	2.003	89Kad3
$[C_{48}H_{36}Br_2N_4Sn]^{\bullet-}$ 	electrochemically generated THF ESR / 115 electrochemistry, UV-VIS spectroscopy	2.003	89Kad3

Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{48}H_{36}Cl_2N_4Sn]^{•-}$ 	electrochemically generated THF ESR / 115	2.004	89Kad3
electrochemistry, UV-VIS spectroscopy			
$[C_{48}H_{36}Cl_2N_4O_8Sn]^{•-}$ 	electrochemically generated THF ESR / 115	$g_{\perp} = 2.002$ $g_{\parallel} = 1.987$	89Kad3
electrochemistry, UV-VIS spectroscopy			
$[C_{48}H_{36}Cl_2N_4O_8Sn]^{•-}$ 	electrochemically generated THF ESR / 115	2.003	89Kad3
electrochemistry, UV-VIS spectroscopy			

Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{48}H_{36}F_2N_4Sn]^{\bullet-}$ 	electrochemically generated THF ESR / 115	$g_{\perp} = 2.004$ $g_{\parallel} = 1.988$	89Kad3
$[C_{48}H_{36}F_2N_4Sn]^{\bullet-}$ 	electrochemically generated THF ESR / 115	$g_{\perp} = 2.002$ $g_{\parallel} = 1.989$	89Kad3
$[C_{48}H_{41}O_2Sn]^{\bullet}$ 	chemical reaction toluene ESR / 403 toluene ESR / 295 toluene ESR / 213	$H(4): 0.300$ $H(6): 0.02$ $^{117}Sn: 1.120$ $^{119}Sn: 1.170$ $H(4): 0.315$ $H(6): 0.025$ species 1: $H(4): 0.23$ $H(6): 0.070$ species 2: $H(4): 0.44$ $H(6): 0.046$	88Ste1

Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[C_{56}H_{78}N_2O_4Pb]^{2\bullet}$ 	chemical reduction toluene ESR / 298	^{207}Pb : 6.40 ^{14}N : 0.77 $H(3)$: 0.33 $H(7)$: 0.42 $H(9)$: 0.21	89Kar
$[C_{56}H_{78}N_2O_4Sn]^{2\bullet}$ 	chemical reduction ESR / 77	N : 0.80 $H(3)$: 0.30 $H(7)$: 0.38 $H(9)$: 0.19 $D = 8.5 \text{ mT}$ $D = 19.0 \text{ mT}$	89Kar
$[C_{56}H_{80}GeN_2O_4]^{2\bullet}$ 	chemical reaction dichloromethane / toluene 1:1 ESR / 4	2 $D = 0.014 \text{ cm}^{-1}$ $E \cong 0$	94Bru
magnetic data, electrochemistry, UV-VIS and IR spectroscopy			
$[C_{56}H_{80}GeO_8]^{2\bullet}$ 	chemical reaction toluene ESR / 77	2.007 D : 26 mT E : 2.2 mT	01ElH
UV-VIS spectroscopy, electrochemistry			

Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{56}\text{H}_{80}\text{N}_2\text{O}_4\text{Sn}]^{2\bullet}$ 	synthesis from catechol and metal salt dichloromethane / toluene 1:1 ESR / 4	2 $D = 0.0635 \text{ cm}^{-1}$ $E \cong 0$	94Bru magnetic data, electrochemistry, UV-VIS and IR spectroscopy crystal structure
			98Ben