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Table S1. Quantum Yields at 540 nm for the Reaction with CCl₄ and F_{CP} Values for [CpCH₂CH₂OSiR₃]₂Mo₂(CO)₆ (R = Me, *i*-Pr, *n*-Pr, *n*-Hx) at various viscosities and 23 ± 1 °C ^a

viscosity (cP)	R = Me		R = <i>i</i> -Pr		R = <i>n</i> -Pr		R = <i>n</i> -Hx	
	Φ _{obs}	F _{CP} ^b	Φ _{obs}	F _{CP} ^b	Φ _{obs}	F _{CP} ^b	Φ _{obs}	F _{CP} ^b
0.47	0.555 ± 0.008	0.14 ± 0.01	0.511 ± 0.006	0.15 ± 0.01	0.490 ± 0.006	0.16 ± 0.02	0.395 ± 0.006	0.17 ± 0.02
0.72	0.488 ± 0.007	0.19 ± 0.02	0.442 ± 0.005	0.21 ± 0.02	0.420 ± 0.005	0.22 ± 0.02	0.346 ± 0.006	0.24 ± 0.02
0.90	0.442 ± 0.007	0.23 ± 0.02	0.404 ± 0.005	0.25 ± 0.02	0.396 ± 0.005	0.26 ± 0.02	0.314 ± 0.006	0.28 ± 0.02
2.21	0.343 ± 0.006	0.42 ± 0.02	0.305 ± 0.004	0.45 ± 0.02	0.289 ± 0.006	0.46 ± 0.03	0.226 ± 0.006	0.49 ± 0.03
3.62	0.282 ± 0.005	0.54 ± 0.02	0.243 ± 0.003	0.57 ± 0.02	0.232 ± 0.004	0.58 ± 0.03	0.179 ± 0.005	0.62 ± 0.03

^a All error bars represent ±1σ. ^b The φ_{pair} values were: [CpCH₂CH₂OSiMe₃Mo(CO)₃]₂ 0.61 ± 0.02, [CpCH₂CH₂OSi(*i*-Pr)₃Mo(CO)₃]₂ 0.56 ± 0.02, [CpCH₂CH₂OSi(*n*-Pr)₃Mo(CO)₃]₂ 0.55 ± 0.02, [CpCH₂CH₂OSi(*n*-Hx)₃Mo(CO)₃]₂ 0.46 ± 0.02.