Supplementary Material



Figure S1. ⁷⁷Se-NMR spectra of pure diaryl selenide 16 in DMSO-*d*₆.



Figure S2. ESI-Mass spectrum of compound 16. ESI-MS (m/z) Calcd, C₂₆H₂₂N₄O₂Se: 502.4, found: 525.1 [M + Na]⁺.



Figure S3. ¹H-NMR spectra of pure spirodiazaselenurane 30 in CDCl₃.



Figure S4. ¹³C-NMR spectra of pure spirodiazaselenurane 30 in DMSO-*d*₆.



Figure S5. ⁷⁷Se-NMR spectra of pure spirodiazaselenurane **30** in DMSO-*d*₆.



Figure S6. ESI-Mass spectrum of compound **30**. ESI-MS (*m/z*) Calcd, $C_{26}H_{20}N_2O_4Se$: 503.4, found: 523.1 [M + Na]⁺.



Figure S7. ¹H-NMR spectra of pure spirodiazaselenurane 34 in CDCl₃.



Figure S8. ¹³C-NMR spectra of pure spirodiazaselenurane 34 in CDCl₃.



Figure S9. ⁷⁷Se-NMR spectra of pure spirodiazaselenurane 34 in CDCl₃.



Figure S10. ESI-Mass spectrum of compound **34**. ESI-MS, (m/z) Calcd, C₂₂H₂₆N₂O₄Se: 462.4, found: 487.0 [M + Na]⁺.



Figure S11. ¹H-NMR spectra of pure spirodiazaselenurane 35 in CDCl₃.



Figure S12. ¹³C-NMR spectra of pure spirodiazaselenurane 35 in CDCl₃.



Figure S13. ESI-Mass spectrum of compound 35. Calcd, $C_{26}H_{36}N4O_2Se$: 516.0, found: 517.1 [M + H]⁺.



Figure S14. ⁷⁷Se-NMR spectrum of the diaryl selenide **16** with 1 equiv of H₂O₂ in CH₂Cl₂. Formation of selenoxide **23** and spirodiazaselenurane **30** were observed.



Figure S15. ⁷⁷Se-NMR spectrum of the monoselenide **36** with 1 equiv of H₂O₂ in CH₂Cl₂. Formation of the selenoxide **37** was observed.



Figure S16. ⁷⁷Se-NMR spectrum of the diaryl selenide **16** with excess of ONOO⁻ in CH₂Cl₂. Formation of selenoxide **23**, spirodiazaselenurane **30** and selenurane oxide **38** were observed.



Figure S17. ESI-Mass spectrum of diaryl selenide **16** upon addition of excess of $ONOO^-$ in CD₃OD. Calculated Mass for compound **30**: 500.07, Observed Mass: 501.91 $[M + H]^+$, Calculated Mass for compound **38**, Calculated Mass: 516.07, Observesd Mass: 537.65 $[M + Na]^+$.



Figure S18. ⁷⁷Se-NMR spectra of pure monoselenide 36 in CDCl₃.



Figure S19. ESI-Mass spectrum of compound 36. ESI-MS (m/z) Calcd, C₃₀H₃₀N₄O₂Se: 558.1, found: 581.0 [M + Na]⁺.



Figure S20. ¹H-NMR spectra of pure selenoxide 37 in CDCl₃.



Figure S21. ¹³C-NMR spectra of pure selenoxide 37 in CDCl₃.



Figure S22. ⁷⁷Se-NMR spectra of pure selenoxide 37 in CDCl₃.



Figure S23. ESI-Mass spectrum of compound 37. ESI-MS (m/z) Calcd, C₃₀H₃₀N₄O₃Se: 574.6, found: 575.1.0 [M + H]⁺.



Figure S24. ¹H-NMR spectra of pure selenurane oxides 38 in CDCL₃.



Figure S25. ¹³C-NMR spectra of pure selenurane oxides 38 in DMSO-*d*₆.



Figure S26. ⁷⁷Se-NMR spectra of pure spirodiazoselenurane 38 in DMSO-*d*₆.



Figure S27. ESI-Mass spectrum of compound **38.** ESI-MS (m/z) Calcd, C₂₆H₂₀N4O₃Se: 516.8, found: 537.9 [M + Na]⁺.