

## New directions in the chemistry of luminescent 1,3-benzoxaphospholes and 1,3-benzazaphospholes

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2-R-1,3-benzoxaphospholes (**R-BOPs**) and 2-R-1,3-benzazaphospholes (**R-BAPs**) are rare examples of low coordinate phosphorus compounds that display photoluminescence (PL). We have been working to prepare new related molecules having greater extension of their  $\pi$ -systems and to integrate these building blocks into extended materials having increasing conjugation. Our latest work on these new materials, as well as their characterization by X-ray crystallography, electrochemistry, and UV-visible spectroscopy, and fluorescence measurements, will be discussed.

