

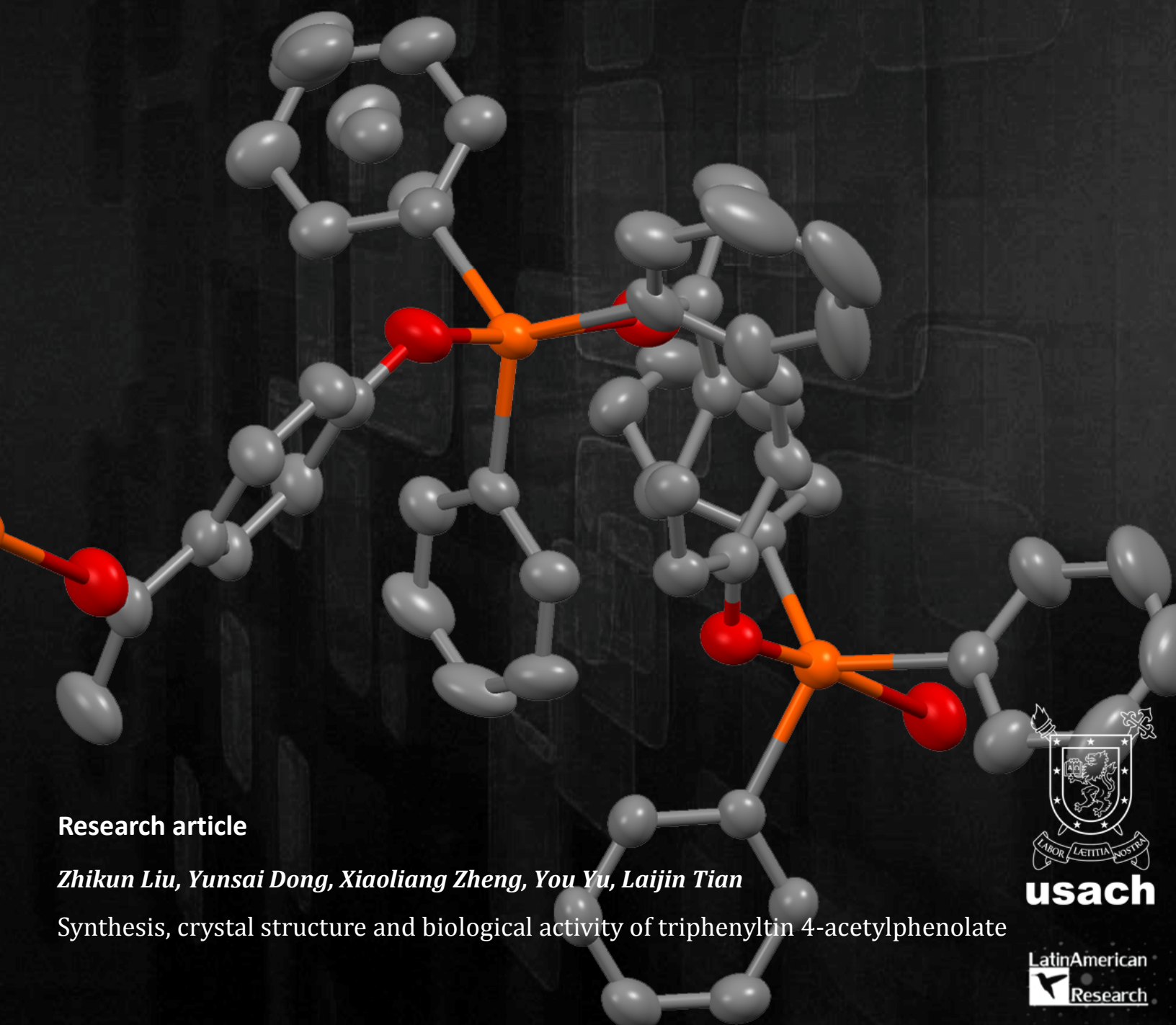
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Research article

Zhikun Liu, Yunsai Dong, Xiaoliang Zheng, You Yu, Laijin Tian

Synthesis, crystal structure and biological activity of triphenyltin 4-acetylphenolate



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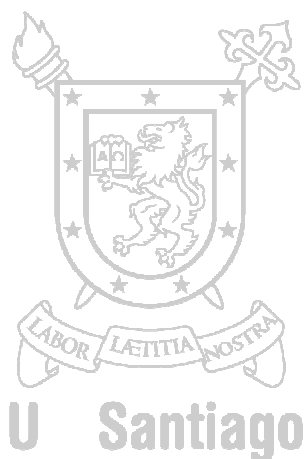
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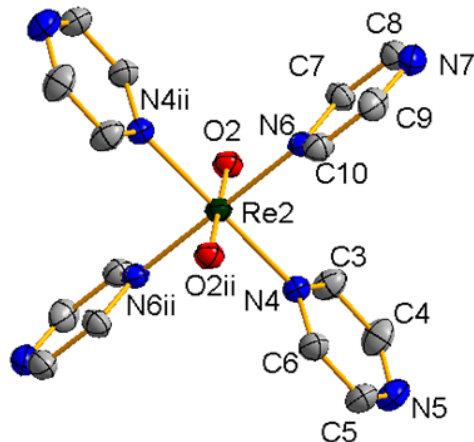
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Research Article



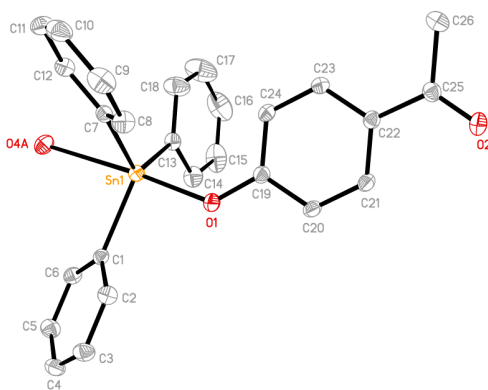
Synthesis, spectroscopic characterization and crystal structure of $[\text{ReV}(\text{O})_2(\text{pyz})_4][\text{ReII}(\text{NO})\text{Br}_4(\text{pyz})]$ (pyz = pyrazine)

Mario Pacheco^a, Alicia Cuevas^a, Javier González-Platas^b,
Carlos Kremer^{a*}

A novel Re(V)-Re(II) nitrosyl complex, $[\text{Re}(\text{O})_2(\text{pyz})_4][\text{Re}(\text{NO})\text{Br}_4(\text{pyz})]$ (pyz = pyrazine) was prepared and characterized by X-ray diffraction, elemental analysis, infrared and ultraviolet-visible absorption spectra. This product is obtained in the initial steps of the reaction of $(\text{NBu}_4)[\text{Re}(\text{NO})\text{Br}_4(\text{EtOH})]$ with pyrazine. Both, the cation and the anion are mononuclear complexes. The Re(V) atom in the cation is six-coordinate with four nitrogen atoms from pyrazine ligands, and two oxo ligands. The Re(II) anion is also six-coordinate, with four bromide ligands, a linear nitrosyl group and one nitrogen from pyrazine. The spectroscopic studies are discussed and compared with those already reported separately for the cation and the anion.

25-28

Research Article



Synthesis, crystal structure and biological activity of triphenyltin 4-acetylphenolate

Zhikun Liu^a, Yunsai Dong^a, Xiaoliang Zheng^b, You Yu^a, Laijin Tian^{a,*}

Triphenyltin 4-acetylphenolate, 4- $\text{CH}_3\text{COC}_6\text{H}_4\text{OSnPh}_3$ (**1**), has been synthesized and characterized by elemental analysis, IR, NMR (^1H , ^{13}C and ^{119}Sn) spectra, and X-ray single crystal diffraction. Compound **1** possesses a *trans*- C_3SnO_2 trigonal bipyramidal geometry with the axial positions occupied by the phenolate oxygen and carbonyl oxygen of an adjacent molecule and form an one-dimensional infinite chain. Bioassay results have shown that the compound has good in vitro anti-bacterial and anti-tumor activities.