

Abstract Submitted
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Thermoelectric properties of the ReCN¹ A. REYES-SERRATO,
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versity Park, Pennsylvania 16802, USA — We present thermoelectric properties of
the new material, ReCN. Combining first principles band structure calculation with
semi classical model analysis; we obtained the Seebeck coefficient as well as the
electrical conductivity as a function of the relaxation time for the electrons. The
results indicate the potential of the ReCN as a good thermoelectric material in the
low region of the temperature.

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