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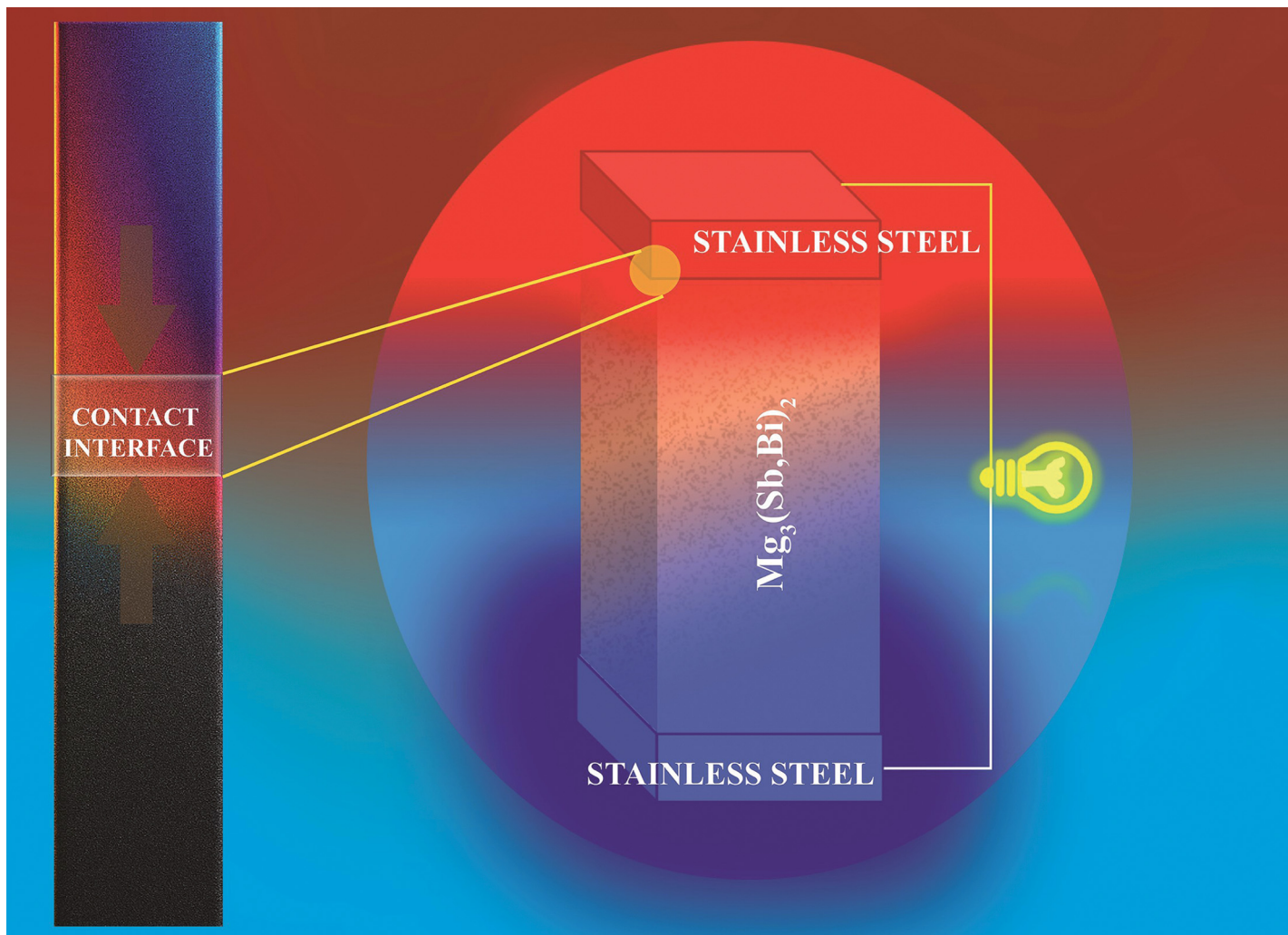
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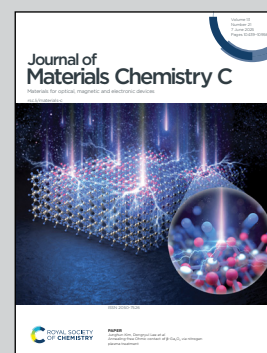
Showing research from Thermoelectric Materials Group,
Research Center for Materials Nanoarchitectonics (MANA),
National Institute for Materials Science (NIMS), Japan.

Process optimization of contact interface layer for
maximizing the performance of $\text{Mg}_3(\text{Sb,Bi})_2$ based
thermoelectric compounds

This work demonstrates the reduction of specific contact
resistivity (ρ_c) through the optimization of sintering
temperatures, leading to a maximum conversion efficiency
(η_{max}) of 9.3% at $\Delta T = 380$ K for $\text{SS}_f/\text{Mg}_3\text{Sb}_{1.5}\text{Bi}_{0.5}/\text{SS}_f$
thermoelectric (TE) single leg, emphasizing the potential
of stainless-steel foil (SS_f) interface layer for thermoelectric
applications.

Image reproduced by permission of Takao Mori from
J. Mater. Chem. C, 2025, **13**, 10567.

As featured in:



See Raju Chetty, Takao Mori *et al.*,
J. Mater. Chem. C, 2025, **13**, 10567.