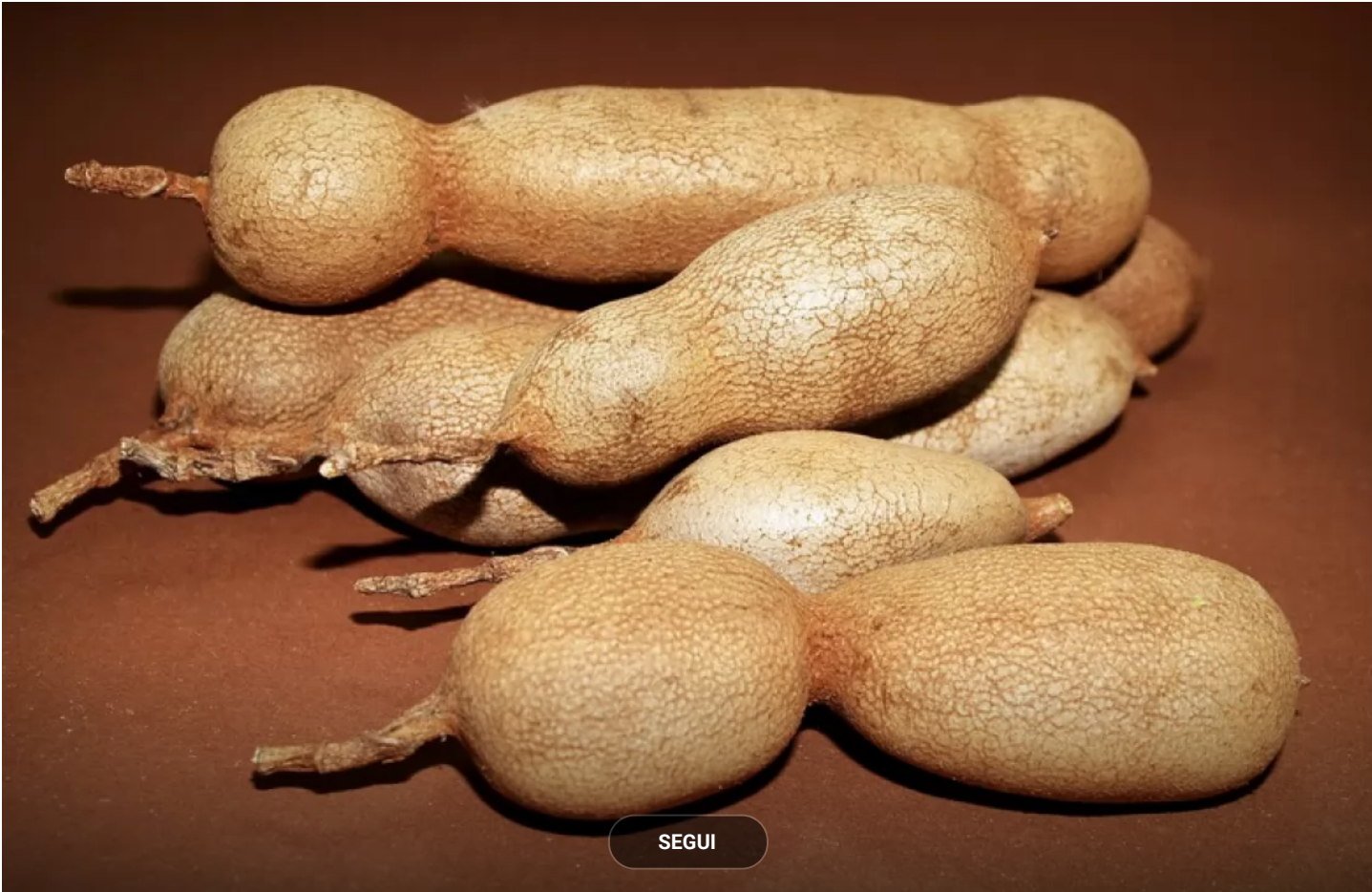


I STUDY



☰ CARD INFORMATION

Of Aurelio Vindigni Ricca | July 16, 2021, 09:37 Am

How many of you know tamarind? It is a tropical fruit now consumed all over the world, whose shells represent a bulky waste material. On Everyeye we still don't have

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In fact, it seems that **tamarind shells are rich in carbon** and with proper processing it is possible to transform them into carbon nanosheets, [a key component of the new supercapacitors](#) . These supercapacitors could in the future represent a key innovation in the field of energy storage, both for new electric vehicles and charging infrastructures.

The discovery specifically comes from the *Nanyang Technological University* of Singapore, from the *Western Norway University of Applied Sciences* and from the *Alagappa University* in India, it is therefore a combined study just published in the journal *Chemosphere* - in this regard to learn more about the publication of the scientific studies there we invite you to read [this interesting article in our Science section](#) .

These are the words of NTU professor Steve Cuong Dang: *"We have discovered that in terms of performance, the tamarind nanosheets obtained from the treatment of the shells are practically identical to those created industrially, with the same porous structure and the same electrochemical properties. The creation process is also identical to the industrial one "* .

To obtain these nanosheets, the researchers dried the shells for 6 hours at 100 degrees Celsius, then reduced them to dust. Subsequently this same powder was **placed in a furnace at 700-900 degrees centigrade for 150 minutes** in total absence of oxygen, thus obtaining the carbon nanosheets. Tamarind shells are so close to becoming a precious natural resource that today it is completely wasted. By collaborating with the agricultural industry, the automotive industry could draw many advantages from the treatment of tamarind, we just have to wait for new developments.

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