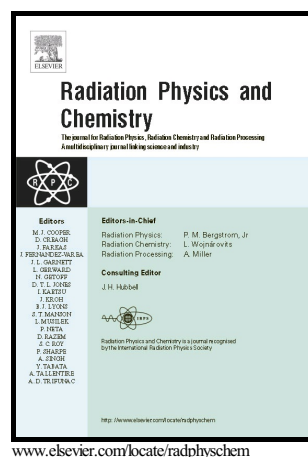


Thermoluminescence properties of CaO powder obtained from chicken eggshells

K.R. Nagabhushana, H.S. Loksha, S. Satyanarayana Reddy, D. Prakash, M. Veerabhadraswamy, H. Bhagyalakshmi, J.R. Jayaramaiah



PII: S0969-806X(16)30653-3
DOI: <http://dx.doi.org/10.1016/j.radphyschem.2017.03.015>
Reference: RPC7475

To appear in: *Radiation Physics and Chemistry*

Received date: 10 November 2016
Revised date: 3 March 2017
Accepted date: 6 March 2017

Cite this article as: K.R. Nagabhushana, H.S. Loksha, S. Satyanarayana Reddy, D. Prakash, M. Veerabhadraswamy, H. Bhagyalakshmi and J.R. Jayaramaiah Thermoluminescence properties of CaO powder obtained from chicken eggshells, *Radiation Physics and Chemistry* <http://dx.doi.org/10.1016/j.radphyschem.2017.03.015>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Thermoluminescence properties of CaO powder obtained from chicken eggshells

K.R. Nagabhushana^{1,2*}, H.S. Lokesha¹, S. Satyanarayana Reddy¹, D. Prakash^{1,3}, M.
Veerabhadraswamy^{4,2}, H. Bhagyalakshmi⁴ and J.R. Jayaramaiah⁵

¹Physics R & D Centre, PES Institute of Technology, BSK 3rd Stage, Bengaluru-560 085, India

²Department of Physics, PES University, BSK 3rd Stage, Bengaluru -560 085, India

³Department of Physics, Government Science College, Bengaluru -56001, India

⁴Green Chemistry Centre, PES Institute of Technology, BSK 3rd Stage, Bengaluru -560085, India

⁵Department of Physics, Government First Grade College, Naragunda - 582 207, India

bhushankr@gmail.com

nagkr@rediffmail.com

*Corresponding author: Tel: +91 9481037231, Fax: +91 80 26720886.

Abstract

Egg shell wastage has created serious problem in disposal of the food processing industry which has been triggered the thoughts of researchers to use wasted eggshells as good source of calcium. In the present work, calcium oxide (CaO) has been synthesized by combustion process in furnace (F–CaO) and microwave oven (M–CaO) using the source of chicken eggshells. The obtained F–CaO and M–CaO are characterized by XRD, SEM with EDX and thermoluminescence (TL)

Download English Version:

<https://daneshyari.com/en/article/5499296>

Download Persian Version:

<https://daneshyari.com/article/5499296>

[Daneshyari.com](https://daneshyari.com)