## JOURNAL OF COSMETIC SCIENCE

The Official Journal of the Society of Cosmetic Chemists



SOCIETY OF COSMETIC CHEMISTS

Purchased for the exclusive use of nofirst nolast (unknown)
From: SCC Media Library & Resource Center (library.scconline.org)

WWW.SCCONLINE.ORG/JOURNAL

# Croda: Positively



With a long history of reporting, sustainability is an **integral** part of our Business, informing and guiding our development strategies. With around 60-70% of our raw materials coming from renewable sources, the **Ingredient Integrity™** of our products is central to our existing and future sustainable innovations. The **intimacy** of our customer relationship helps us to understand and meet both their needs and the demands of their consumers.

We can support you in meeting your sustainability goals and help you create new opportunities to have a sustainable **impact** on our world. Contact us to discuss how today.

Visit us at www.crodapersonalcare.com

Europe, Middle East & Africa pc-europe@croda.com
North America marketing-usa@croda.com
Latin America marketinglatam@croda.com
Asia Pacific pc-asia@croda.com

in Croda Personal Care

croda\_personal\_care

@CrodaPC

#### **Key Highlights:**

- Around 60 70% of our raw materials are from renewable sources, far above the average of our peers
- 21.1% Energy from non-fossil fuel sources
- 14 RSPO supply chain certified global manufacturing sites
- Committed to becoming Climate, Land and People Positive by 2030

Purchassed 166 the exclusive ase of no first no last (unknown)
From: SCC Media Library & Resource Center (library.scconline.org)

**CRODA** 



### Journal of Cosmetic Science

The Official Journal of the Society of Cosmetic Chemists

**Editor-in-Chief:** Paolo Giacomoni, PhD, Consultant to the Skin Care Industry

Senior Associate Editor: Trefor Evans, PhD, TRI-Princeton | Hair Expert

Associate Technical Editor: K.P. Ananthapadmanabhan, PhD, College of Pharmacy,

University of Cincinnati | Skin Expert



**President:** Liz Streland, Croda, Inc.

**Vice President:** Michelle Hines, PhD, Mary Kay, Inc.

Vice President-Elect: Mark Chandler, ACT Solutions Corporation

**Secretary:** Yulia Park, PhD, Amway Corporation

**Treasurer:** Karen Chun, Symrise, Inc.

**Executive Director/CEO:** Erica L. O'Grady, CAE, Society of Cosmetic Chemists HQ



© Copyright 2021 by the Society of Cosmetic Chemists. Permission is granted to readers and nonprofit libraries acting for them for fair use of the material contained in this Journal. Permission is further granted to quote from this Journal in scientific works with the customary acknowledgment of the source. Consent from EACH OF THE ORIGINAL AUTHORS along with notification to the Society of Cosmetic Chemists is required to reprint a figure, table or other excerpt. The republication, systematic or multiple reproduction of any material in this Journal (including abstracts) is permitted under written license from the Society of Cosmetic Chemists. The Society of Cosmetic Chemists may also require that permission must be obtained from EACH OF THE AUTHORS. Address inquiries to the Editor.

SUBSCRIPTION: JOURNAL OF COSMETIC SCIENCE, the Official Journal of the Society of Cosmetic Chemists, is published six times per year with January/February, March/April, May/June, July/August, September/October, November/December issues. Yearly subscription price is \$250.00 for 1-10 users, \$350 for 11-50 users, \$490 for 51-100 users and \$686 for 100+ users. JOURNAL OF COSMETIC SCIENCE, the Official Journal of the Society of Cosmetic Chemists, is a registered trademark of the Society of Cosmetic Chemists

**POSTMASTER, MEMBERS AND SUBSCRIBERS:** Send address changes to The Society of Cosmetic Chemists, 14 Wall Street, Suite 1620, New York, NY 10005.

RESPONSIBILITY FOR STATEMENTS PUBLISHED: The Society of Cosmetic Purionized flor the exclusive are of the first from the exclusive are of the first from the first from the exclusive are of the first from the first fr

responsibility for statements or opinions advanced by contributors to this Journal.

Missing issues will not be supplied if claims are received more than 60 days after the date of the issue, or if loss was due to failure to give notice of change of address. The JCS cannot accept responsibility for foreign delivery when its records indicate shipment was made.

**EDITORS AND PUBLISHERS:** Abstracts or digests of articles not exceeding 400 words may be published, duly credited to the author and JOURNAL OF COSMETIC SCIENCE, the Official Journal of the Society of Cosmetic Chemists. **AUTHORS:** When using illustrations or quotations taken from copyrighted publications, authors must get written permission from the copyright holder to reproduce the same.

PAGE CHANGES: The authors of a manuscript will no longer be assessed a page or color photograph charge for printed manuscripts. Any material set into type but ordered deleted from the publication at the page proof stage must also be paid for by the author. These changes will be invoiced to the senior author at the time of publication.

**MANUSCRIPTS:** Manuscripts should be prepared in accordance with "Information for Authors," which can be found at the end of this issue.

Periodicals postage paid at New York, New York and additional mailing offices.

Publication office: 14 Wall Street, Suite 1620, New York, NY 10005 (212) 668-1500, Fax: (212) 668-1504. Email: journal@scconline.org

From: SCC Media Library & Resource Center (library.scconline.org)





#### Journal of Cosmetic Science

The Official Journal of the Society of Cosmetic Chemists Volume 72 No. 2 | March/April 2021

#### ORIGINAL ARTICLES

# Religion and Cosmetics: Guidelines for Preparing Products Aimed at the Muslim World Based on the Interpretation of Halal Cosmetics in Malaysia

Fatin N. Majdina Nordin, Che W. Jasimah Wan Mohamed Radzi | pp. 139

#### Stability of a Natural-Based Cream Containing Lecythis pisonis Extract

Ana C. Hertel Pereira, Lorraine O. Ribeiro, Elisangela F. Pimentel, Fabiana G. Ruas, José A. Ventura, Denise C. Endringer | pp. 155

### Effectiveness of the Disinfection of Reusable Make-Up Applicators – Initial Experiences

Piotr Załęcki, Joanna Twardowska, Danuta Nowicka, Waldemar Andrzejewski | pp. 163

# **Next-Generation Natural Baby Barrier Cream Formulations: Physicochemical Analysis and Safety Assessment**

Ahmet Arif Kurt, Ismail Aslan, Gulengul Duman | pp. 173

### Improving Oxidative Stability of Cosmetic Emulsions with Plant Extracts: Current Status and Potential

Anica Petkovic, Vladimir Jakovljevic, Marina Tomovic, Jovana Jeremic, Gordana Ristic, Jovana Bradic | pp. 189

Purchased for the exclusive use of nofirst nolast (unknown) From: SCC Media Library & Resource Center (library.scconline.org)

### Comparison of Urea-Based Compounding Moisturizers and Similar Commercial Products on Skin Barrier Function: A Randomized Biometric Study

Aniseh Samadi, Atefeh Naeimifar, Saman Ahmad Nasrollahi, Alireza Firooz | pp. 201

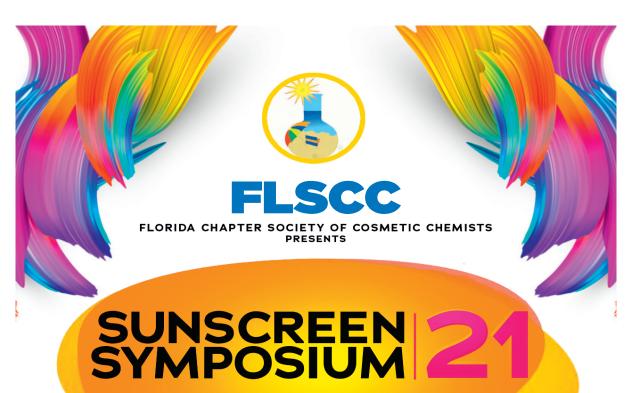
#### Review Articles

# Dermal Effects of Unsaponifiable Compounds: the Overlooked Perspective of Vegetable Butters and Oils

Nina Poljšak, Nina Kočevar Glavač | pp. 215

#### **Selected Alkaloids Used in the Cosmetics Industry**

Anna Stępniowska, Patrycja Cieplińska, Weronika Fac, Joanna Górska | pp. 229



**SEPT. 23 - SEPT. 25** 

**DISNEY'S YACHT & BEACH CLUB RESORT** 

Predicting the Future: Sun Care Trends in an Uncertain Regulatory Environment

**Attendee or Exhibitor Registration:** 

https://events.american-tradeshow.com/ sunscreensymposium21

**Hotels reservations:** 

Click here or call (407) 939-4686 https://book.passkey.com/go/sunscreen21

Don't forget to Register for the Golf event & GALA! See you there!

(GALA event included in full reg, Golf is seperate.)

#### Sponsorship Information

Be a part of the 2021 Sunscreen Symposium. Contact Peter Toth - flsccchair@gmail.com or Carol Holmes – flscctreasurer@gmail.com for your opportunity to be recognized!