

SUPERCRITICAL WATCH

Your weekly report about supercritical and subcritical processes to make good decisions



Weekly Report : 29th November to 6th December 2018

| Collect and sorting of relevant data | All links are checked | **Subscribe now !**

SCF Companies

Scientific paper & news

SCF Products market

Extended technologies

Events

December 4 2018

[AlgaEurope 2018 Conference program](#)

<https://algaeurope.org/program2018-day2/>

The AlgaEurope 2018 Conference program at a glance! ...
Echno-economic analysis of supercritical CO₂ extraction of lipophilic compounds as part of a mild .



Conference from Reza Ranjbar, Team Leader-Functional Fats and Oils, FeyeCon D&I, The Netherlands in session 8 : LCA, TEA, Resources



December 5 2018

[Conférence : L'eau, l'homme, le monde @ Station Ausone Mollat](#)

...
<https://bordeaux.carpe-diem.events/.../8793823-conf-rence-leau-l-homme-le-monde-at...>

-Eau et Industrie: Nouveaux apports de la recherche / Les fluides supercritiques, avec Dominique SENTAGNES Industriel.
Administrateur de la Fédération des ...



Public conference including a talk of Dominique SENTAGNES on water, industry and supercritical fluids



SCF companies

November 30 2018

[Tendances et innovations matières plastiques - salon Plast 2018](#)

...
<https://www.allize-plasturgie.org/.../tendances-et-innovations-mati-eres-plastiques-salon...>

. technique vers Turin, avec la technologie Mucell développée par Trexel qui consiste à injecter un gaz à l'état supercritique au niveau de la vis d'injection.



Summary of Plast Event which took place last June. During this fair, ProPlast technical center from Turing show a product made using equipment from TREXEL Company (injection of CO₂) (see "allegement paragraphe")



November 30 2018

[DeviceMed France 6/2018](#)

www.devicemed.fr/wp-content/uploads/.../devicemed-novembre-decembre-2018.pdf

- roxyde d'hydrogène, CO₂ supercritique ou traitements hyperbares ont fait leur apparition. Elles n'ont toutefois pas encore trouvé à ce jour d'appli-

✔ Page 59 : review of sterilization process for Medical disposal. Supercritical CO₂ is quoted among others new techniques but described as either costly or not well optimized.



December 4 2018

[SFE Process supercritical CO₂ extraction](#)

[Jeremy Lagrue](#)

SFE Process is pleased to present you our extraction systems. Thanks to our experience of 12 years in the field of supercritical

✔ Detected on You Tube



December 5 2018

[ER INGENIERIE - La French Fab - La French Fab](#)

<https://www.lafrenchfab.fr/entreprise/er-ingenierie/>

de séchage et conditionnement jusqu'à des procédés d'extraction notamment par CO₂ supercritique ou par eau subcritique, de procédés d'encapsulation, ...

✔ Web-Page on Er Ingenierie Company on French Lab Repertory

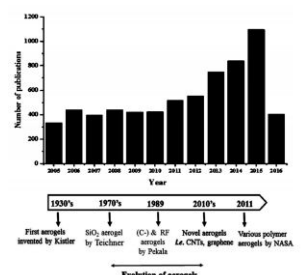


Scientific news & papers

November 30 2018

[A Review of Aerogel Applications in Adsorption and Catalysis](#)
jpst.ripi.ir/article_903_2a87f21fefbeccfb1c0bee50548b7bad.pdf

Keywords: Aerogel, Supercritical Drying, Catalyst, Sorbent, Carbon Capture. Davood Karami. Department of Chemical and Petroleum Engineering, Schulich ...



December 4 2018

[Recent Food Research International Articles - Elsevier](https://www.journals.elsevier.com/food-research.../recent-articles)

<https://www.journals.elsevier.com/food-research.../recent-articles>

Recently published articles from Food Research International. ...

Evaluating the impact of supercritical-CO₂ pressure on the recovery and quality of oil from ...



December 7 2018

[Brice Calvignac @bricecalvignac](#)

And also big thanks all people who liked and shared the video, and hence contributed to this #SFNano price!

[@Kevin_Matha](#) from [@LabMint](#) [@UnivAngers](#) [@FacSante_Angers](#) [@ISTIA_Angers](#) [@Inserm](#) [@INC_CNRS](#) [@InsermGrdOuest](#), time

now for celebrity, video is online! 😊



have a look directly at the video :

<https://www.youtube.com/watch?v=tdqIVAS65-s&t=9s>



December 7 2018

[Molecules | Free Full-Text | Supercritical CO₂ Extraction of Eruca ...](https://www.mdpi.com/1420-3049/23/12/3240/htm)

<https://www.mdpi.com/1420-3049/23/12/3240/htm>

Supercritical carbon dioxide (SCO₂) could be an alternative and environmentally friendly The effect of the temperature of supercritical fluid extraction on the ...

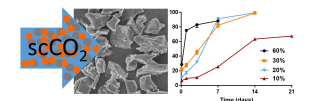


December 6 2018

[Formulation of Bioerodible Ketamine Microparticles as an Analgesic Adjuvant Treatment Produced by Supercritical Fluid Polymer Encapsulation](#)

Received: 7 November 2018 / Revised: 28 November 2018 /

Accepted: 4 December 2018 / Published: 6 December 2018

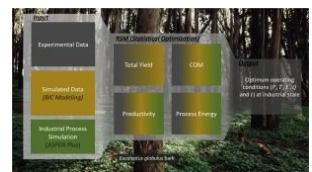


[Simulation and techno-economic optimization of the supercritical CO₂ extraction of Eucalyptus globulus bark at industrial scale](#)

Vítor H. Rodrigues, Marcelo M.R. de Melo, Inês Portugal, Carlos M. Silva

In Press, Accepted Manuscript, Available online 1 December 2018

[Source Science Direct](#)

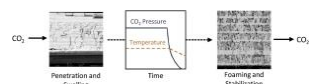


[Foaming of polystyrene and poly\(methyl methacrylate\) multilayered thin films with supercritical carbon dioxide](#)

Jenna L. Sumey, Joseph A. Sarver, Erdogan Kiran

In Press, Accepted Manuscript, Available online 3 December 2018

[Source Science Direct](#)



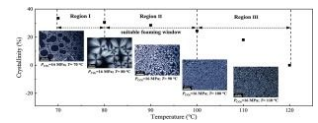
[Foaming of poly\(lactic acid\) with supercritical CO₂: the combined effect of crystallinity and crystalline morphology on cellular structure](#)

Yongchao Yang, Xiangyu Li, Qingqing Zhang, Chenghao Xia, ...

Peng Yu

In Press, Accepted Manuscript, Available online 5 December 2018

[Source Science Direct](#)

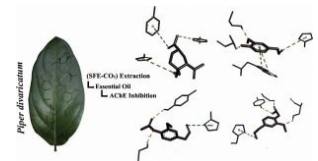


[Phytochemical profile, antioxidant activity, inhibition of acetylcholinesterase and interaction mechanism of the major components of the Piper divaricatum essential oil obtained by supercritical CO₂](#)

Mozaniel Santana de Oliveira, Jorddy Neves da Cruz, Sebastião Gomes Silva, Wanessa Almeida da Costa, ... Raul Nunes de Carvalho

In Press, Accepted Manuscript, Available online 6 December 2018

[Source Science Direct](#)

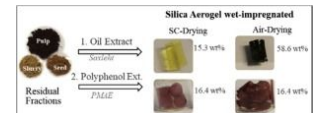


[Impregnation of Açai Residue Extracts in Silica-Aerogel](#)

Rafaella T. Buratto, Edwin G. Hoyos, María José Cocero, Ángel Martín

In Press, Accepted Manuscript, Available online 6 December 2018

[Source Science Direct](#)

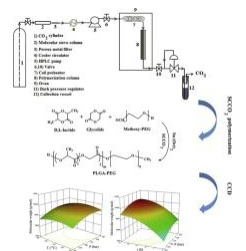


[Ring-Opening Polymerization of Poly\(D,L-lactide-co-glycolide\)-poly\(ethylene glycol\) Diblock Copolymer Using Supercritical CO₂](#)

Hossein Kamali, Ramin Mollaei, Elham Khodaverdi, Farzin Hadizadeh, Gholam Hossein Zohuri

In Press, Accepted Manuscript, Available online 6 December 2018

[Source Science Direct](#)

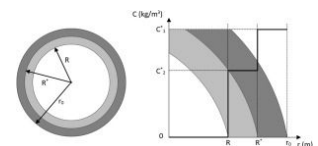


[Extraction of solid lanoline from raw wool with near-critical ethanol-modified CO₂ – A mass transfer model](#)

Abel Valverde, Francesc Recasens

In Press, Accepted Manuscript, Available online 7 December 2018

[Source Science Direct](#)

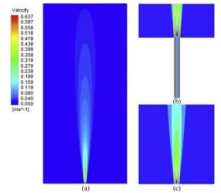


The use of polynomial models to determine thermodynamic properties of turbulent supercritical mixture in SAS process: a statistical analysis

F.A.R. Cardoso, R.A. AlmFieida, R.V.P. Rezende, T.P.B Vecchi, ...
L. Cardozo-Filho

In Press, Accepted Manuscript, Available online 7 December 2018

Source Science Direct



SCF markets & products

November 30 2018

Saw palmetto NUTRIVIE - abiocom

<https://www.abiocom.com> > Nos marques > Nutrivie >

Compléments alimentaires

Les + du produit. 100% d'origine Végétale. Extraction au CO2 supercritique : aucun solvant chimique, préservation de l'ensemble des constituants de la plante.



Food supplement containing CO2 extract elaborated in France



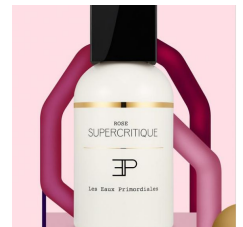
November 30 2018

Rose Supercritique | Les Eaux Primordiales

Les Eaux Primordiales

Rose - Les Eaux Primordiales

olfactifs, cette ROSE à l'haleine miellée, qui fleure bon l'essence d'Orient, s'habille à peine de CARDAMOME, de VANILLE et d'ENCENS pour que s'écoule in



December 2 2018

New Chapter. Ginger Force. 60 Vegetarian Capsules - iHerb.com

<https://www.iherb.com/pr/new-chapter-ginger-force-60-vegetarian-capsules/64459>

New Chapter delivers the wisdom of whole food. Using only natural supercritical CO2 or traditional techniques of extraction, our Force extracts guarantee the ...



December 4 2018

Peach Flavor Co2 Extract - Pure Anada Cosmetics

Pure Anada

Kiwi Flavor Co2 Extract



December 2 2018

Supercritical CO2 Gel Mask - OHA - Vital Organic Skincare Oha Skin Care

The OHA Supercritical CO2 Gel Mask is a healthy indulgence! It's teeming with seven CO2 extracts combined in an Organic Aloe Vera Gel have been proven to ...



Extended
technologies

December 3 2018

HIE 2018 : les ingrédients santé à la recherche de valeurs plus éco ...

<https://ingrebio.fr/.../hie-2018-les-ingredients-sante-a-la-recherche-de-valeurs-plus-ec...>

Parmi des pré-requis de plus en plus naturels et durables, comment se démarquent les ingrédients santé bio? | Événements, Salons | INGREBIO fournisseurs ...



Summary of Food Ingredient Fair (HIE) : key-word of this event : « health », « well-being », « claims », « natural », « origins », « sustainable », « vegan » ...




December 6 2018

Supercritical coal-fired EGUs are advanced, clean and in use ... - EPA

https://www.epa.gov/sites/.../supercritical_egus_in_2018_map.pdf

- Supercritical coal-fired EGUs are advanced, clean and in use today. There are 112 units at 63 power plants in the United States. Based on review of U.S. Energy ...



If information about event, company, scientific articles appear on the Internet several times (either on one week or one month) : the piece of information will be placed only once in the Supercritical Watch Weekly Report. Due to the huge number of data editing or up-dating every week on CBD process, products, consumer advice : only a selection of news is done and reported in the Supercritical Watch Report.  Comments or advice on web article lecture is provided through the following icon :