

SUPERCRITICAL WATCH

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



Weekly Report : 11th to 18th April 2018

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Events Events

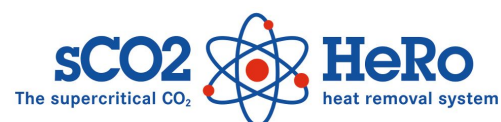
April 14 2018

[The 2nd European sCO₂ Conference | sCO₂-HeRo](#)

www.sco2-hero.eu/european-sco2-conference-2018/

After its initiation in 2016, the 2nd European sCO₂ Conference in 2018 is focussed on supercritical carbon dioxide for cycle applications.

Researchers, industry and end users are invited to share and discuss recent results on sCO₂ research and establish valuable cooperation's of future developments in the field of sCO₂.



April 12 2018

[Workshops – EMN 2018 - emn meetings emnmeeting.org/2018/barcelona/workshops/](#)

Synthesis and processing of MOFs in supercritical CO₂; Didier Dubreuil, Université de Nantes, France Pyridazine chemistry for bioorganic and supramolecular applications using electrochemical coupling, ring contraction and catalysis reactions; Alberto Galussi, Universidad Nacional de Entre Ríos, Argentina; Chan-Cuk ...

EMN 2018

Energy Materials and Nanotechnology

SCF Companies SCF Companies

April 13 2018

[Ceapro Inc. to Present at the 12th International Symposium on ...](#)

ceapro.com/.../ceapro-inc-to-present-at-the-12th-international-sym...

Ceapro Inc. to Present at the 12th International Symposium on Supercritical Fluids.

EDMONTON, ALBERTA – April 13, 2018 ...



April 12 2018

[.CO2 supercritico: Aplicaciones industriales - AINIA Centro Tecnológico](#)

www.ainia.es/.../co2-supercritico-aplicaciones-industriales-que-esta...

ISSF 2018: 12th International Symposium Supercritical, 22-25 de abril. AINIA estará un año más en el evento de referencia mundial sobre la tecnología de fluidos supercríticos. El simposio se orientará en dar a conocer las novedades científicas y las nuevas aplicaciones industriales de los fluidos supercríticos, ...



April 17 2018

[Solabia Solutions For The Eco-Conscious Consumer - HAPPY](#)

<https://www.happy.com/.../solabia-solutions-for-the-eco-conscious-...>

Specialized in plant conventional extraction, Solabia designed a unique industrial bifunctional equipment and related extraction processes, Solagreen Super Fluids Technology. This high performance eco-extraction is based upon the complementary extracting properties of two Superfluids: The subcritical water and the ...



April 15 2018

[Messer valorise le CO2 pour une chimie verte - Industrie Mag](#)

www.industrie-mag.com/article16565.html

Au travers de l'extraction par CO2 supercritique, Messer France accompagne au quotidien les acteurs de ces différentes filières qui se sont engagés sur cette voie. Au-delà de 31 °C et de 74 bar, le CO2 atteint l'état supercritique, 4e état de la matière entre liquide et gazeux. Il agit alors comme un solvant à « géométrie ...



April 14 2018

[ER INGENIERIE – ER INGENIERIE est un Fabricant de machines ...](#)

www.eringenie.com/



ER INGENIERIE
CONCEPTEUR DE MACHINES SPÉCIALES ET D'INSTALLATIONS INDUSTRIELLES

Unité Industrielle d'extraction utilisant le CO2 supercritique. Conçu pour extraire différents API (substances actives pharmaceutiques) d'une matière première végétale.

April 15 2018

[From waste to wealth](#)

[The Star Online](#)-15 avr. 2018

UTM vice-chancellor Prof Datuk Dr Wahid Omar said the discovery was made possible through a collaboration with the Malaysia-Japan Institute of Technology (MJIT) to build Malaysia's first subcritical water-waste management reactor system. "It is the first of its kind in Malaysia and Asia. "Unlike conventional incinerators ...



April 12 2018

[Muradel making progress](#)

[Whyalla News](#)-12 avr. 2018

"Our prototype Sub Critical Water Reactor (SCWR) dissolves ground-up tyre rubber in water under high pressure and heat, in a process is known as hydrothermal liquefaction," he said. "Our next phase will be to customise the SCWR to handle different feeds of tyres and other organic materials that can be processed through



April 10 2018

[OCO Labs Videos| Supercritical CO2 Extraction Support](#)

<https://ocolabs.com/support/>

CO2 extraction or Supercritical Fluid Extraction (SFE) is known for being the most effective way to extract beneficial essences from plant matter.



April 13 2018

[16 Best Co2 Extraction jobs \(Hiring Now!\) |](#)


[SimplyHired](#)

<https://www.simplyhired.com/search?q=co2+extraction>

Assist the Extraction Engineer in the operation



and maintenance of closed loop hydrocarbon solvent extraction using BHO, CO2 and VTA Distillate machines.... Estimated: Primarily responsible for providing CAD design services to support the development of Supercritical CO2 Fluid Extraction Systems.... Estimated: ...

 [Job offers for Mayflower Medicinal company and Green Mills Supercritical Company](#)

April 16 2018

[Supercritical Fluid Extraction of Dabai Dabai - YouTube](#)

<https://www.youtube.com/watch?v=uM5ZJ5-nIIQ>

PILOT PLANT FACILITY @ CURTIN MALAYSIA
Pilot scale extraction of oil and fat from dried dabai (Canarium ..



April 16 2018

[High yield CBD extracted by 300L supercritical co2 extractin machine ...](#)

<https://www.youtube.com/watch?v=zipIQDpn5FY>

Ajouté par CAREDDI SUPERCritical CO2 EXTRACTION SYSTEM

300L supercritical co2 extraction machine working on extracting CBD.



April 17 2018

[Henan Subcritical Extraction Biological Technology Co., Ltd - Quality](#)

yalinjie.sell.everychina.com/quality.html

Henan Subcritical Extraction Biological Technology Co., Ltd quality control information, view quality Production Line products from china Production Line manufacturer.



April 16 2018

[CO2 Extraction System | LabX](#)

<https://www.labx.com> > ... >

[Chromatograph-HPLC > HPLC Systems](#)

New Supercritical Fluid Extractor for the Processing of Natural Products Supercritical Fluid Technologies (SFT) is pleased to introduce a new pilot scale ... SiliCycle MiniBlock® XT Multifunctional synthesis platform Parallel Synthesis Reaction Screening Catalyst Screening Reflux and Inerting View the ...



April 17 2018

[Zotefoams investissement plc dans la technologie de mousse unique ...](#)

bitcoinfr.biz/zotefoams-investissement-plc-dans-la-technologie

Ces mousses pures, cohérentes sont fabriqués en utilisant une technologie d'expansion de l'azote unique, respectueux de l'environnement graphique Bitcoin ... a mis en place une position exclusive mondiale des brevets et savoir sous la marque MuCell® en mousse microcellulaire en utilisant l'azote supercritique et CO2.



Scientific papers and news
scientific papers and news

April 10 2018

[Innovative chocolate with ginseng was created in FEFU](#)

https://www.dvfu.ru/.../innovative_chocolate_with_ginseng_was_c...

According to Maya Razgonova, the author of the invention, a postgraduate student at the Department of Food Science and Technology, FEFU School of Biomedicine, for the ginseng extract to be obtained they used a special technology of supercritical extraction with carbon dioxide under pressure of 400 bar (5802 psig).



April 10 2018

[Rapid Continuous Supercritical CO2 Extraction and Separation of ...](https://pubs.acs.org/doi/abs/10.1021/acs.iecr.8b00812)

<https://pubs.acs.org/doi/abs/10.1021/acs.iecr.8b00812>

From 2013, he is a researcher at Research Institute for Chemical Process Technology, National Institute of Advanced Industrial Science and Technology (AIST). His research interest is supercritical fluid technologies especially using CO2 and water. He is studying on continuous extraction process using supercritical CO2 as ...

I&EC research
Industrial & Engineering Chemistry Research

April 12 2018

[Effects of process parameters on peanut skins extract and CO2 ...](https://iopscience.iop.org/article/10.1088/1757-899X/334/1/.../meta)

iopscience.iop.org/article/10.1088/1757-899X/334/1/.../meta -

At present, only a few studies have been conducted to study the effects of parameters on the peanut skins oil extraction. Therefore, this study aimed to determine the best extraction condition in order to obtain the highest extract yield using supercritical carbon dioxide (SC-CO2) with co-solvent Ethanol as compared to ...

IOPscience

April 11 2018

[On-line supercritical fluid extraction—Supercritical fluid ...](https://www.sciencedirect.com/science/article/.../S15700232183027...)

<https://www.sciencedirect.com/science/article/.../S15700232183027...>

On-line supercritical fluid extraction – supercritical fluid chromatography – mass spectrometry (SFE-SFC-MS) has been applied for the determination of polyc. ... Certified reference materials, CRM Clean Sediment #2, CRM Clean Clay #5, and CRM Clean Sand #4, were purchased from Sigma-Aldrich (St. Louis, MO).



April 17 2018

[Universidade do Minho: Potential of Portuguese vine shoot wastes as ...](#)

<https://repositorium.sdum.uminho.pt/handle/1822/54423>

To reach this goal, three techniques were explored, namely microwave-assisted extraction (MAE), subcritical water extraction (SWE) and conventional extraction (CE). The phenolic composition of the extracts, antioxidant and biological activities were evaluated by spectrophotometry and chromatography. MAE and SWE ...



April 14 2018

[Comparison of three types of drying \(supercritical CO₂, air and freeze ...](#)

<https://www.sciencedirect.com/science/article/.../S00236438183033...>

The aim of this study was to develop a quality index and examine the effects of drying apples using three technologies (supercritical CO₂ drying, air drying and.



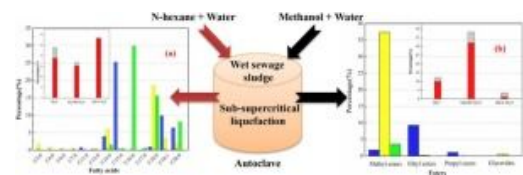
[Sub-supercritical liquefaction of municipal wet sewage sludge to produce bio-oil: Effect of different organic-water mixed solvents](#)

In Press, Accepted Manuscript, Available online

13 April 2018

Rundong Li, Zhiming Ma, Tianhua Yang, Bingshuo Li, ... Yang Sun

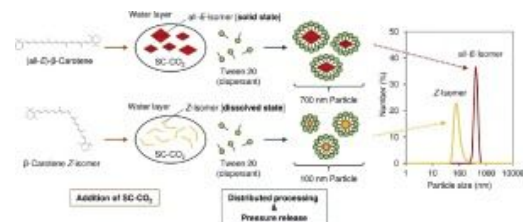
[Source : Science Direct](#)



[Production of β-carotene nanosuspensions using supercritical CO₂ and improvement of its efficiency by Z-isomerization pre-treatment](#)

In Press, Accepted Manuscript, Available online

12 April 2018





Maiko Ono, Masaki Honda, Wahyudiono, Keiji Yasuda, ... Motonobu Goto

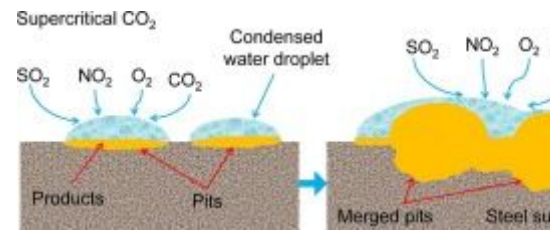
[Source : Science Direct](#)

[Understanding the pitting corrosion mechanism of pipeline steel in an impure supercritical CO2 environment](#)

In Press, Accepted Manuscript, Available online 11 April 2018

Yong Xiang, Chen Li, Wuermanbieke Hesitao, Zhengwei Long, Wei Yan

[Source : Science Direct](#)



SCF
Products
Market
SCF
Products
Market

April 16 2018

[Supercritical Extract - Kaffe Bueno](#)

<https://kaffebueno.com/kaffe-bueno-coffee-recycled-coffee-oil/>

Kaffe Bueno ® Supercritical Coffee Oil [Recycled Coffea Arabica Used Grounds] combines all the benefits of the volatile compounds coffee essential oil, with all the nutrients inside its lipid fraction. It is obtained through a Supercritical CO2 extraction from lightly roasted Spent Coffee Grounds (SCG) that Kaffe Bueno collects ...



April 15 2018

[Ultra Uni-Pro-Trol™ - Douglas Labs](#)

<https://www.douglaslabs.com/ultra-uni-pros-trol-trade.html>

Ultra Uni-Pro-Trol™ provides a wide range of nutrients to support prostate health, including a supercritical CO2 extract of saw palmetto, as well as lycopene, standardized pygeum, and nettle extracts.† Additionally, Ultra Uni-Pro-Trol provi.



April 16 2018

[Champaca Supercritique Les EAUX Primordiales perfume - a new ...](#)

<https://www.fragrantica.com/.../Champaca-Supercritique-49555.ht...>

This is a new fragrance . Champaca supercritique was launched in 2018. The nose behind this fragrance is Arnaud Poulain



Extended technologies
extended technologies

April 16 2018

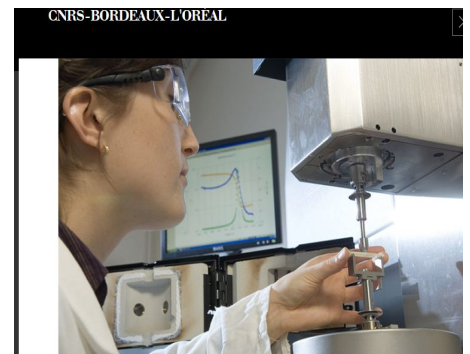
[L'Oréal R&I et le Laboratoire de Chimie des Polymères Organiques ...](#)

<https://mediaroom.loreal.com/loreal-ri-et-le-laboratoire-de-chimie-des-polymeres-orga...>

Communiqués de presse L'Oréal R&I et le Laboratoire de Chimie des Polymères Organiques inaugurent à Bordeaux le JointLab dédié à l'innovation des polymères « verts ». Clichy, le 16 avril 2018. Partageant une vision commune de la science, respectueuse des hommes et de l'environnement, L'Oréal Recherche ...



Inauguration of a joint lab between L Oreal and CNRS - Bordeaux dedicated to innovative green polymers



April 17 2018

[Brésil : des opportunités agroalimentaires à explorer - Vitagora](#)

<https://www.vitagora.com/blog/2018/opportunite-a-groalimentaire-bresil/>

... production et process, des technologies de séparation et de filtration, membranaires ou non, extraction supercritique, fermentation, technologies enzymatiques; En emballages : nouveaux matériaux, emballages actifs/intelligents, design et facilité d'ouverture/fermeture. En conservation : plats sous vide, hautes pressions, ...



Brazil : an opportunity for food business



April 11 2018

[Les sept pôles de compétitivité en santé français se constituent en ...](#)

www.biotechinfo.fr/les-sept-poles-de-competitivite-en-sante-francais-se-constituent-en...

Ensemble, les 270 membres du collectif EUROBIOMED (dont 225 entreprises) constituent un formidable moteur de développement régional (172 projets de R&D ... de l'agroalimentaire, de la pharmacie, des biotechnologies innovantes, ainsi que des centres de recherche investis dans le domaine de la Nutrition Santé.



"7 French Competitiveness Cluster focus on health work together. "

BIOTECH.INFO
30

La lettre des biotechnologies

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 :