

SUPERCRITICAL WATCH

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



Weekly Report : 7th to 14th March 2018

Watch realized by **Kasop Tech & Event** | Collect and sorting of relevant data | All links are checked | [Subscribe now](#)

Events Events

March 7 2018

[First Circular](#)

https://www.gdch.de/fileadmin/.../ISRS-19_First_Circular.pdf

www.isrs2018.uni-bayreuth.de. The Conference will be held between Sunday 15th and Wednesday 18th of July 2018 at the University of Bayreuth's campus. This is the week ... Chemistry in unconventional media (ionic liquids, supercritical fluids, ...) ◦ Advances in characterization of reacting solids.



A section is dedicated to chemistry in unconventional media



March 12 2018

[Salons internationaux - Liste de salons en Avril 2018 - EventsEye](#)

https://www.eventseye.com/fairs/d0_salons_avril_2018_16.html

INTERNATIONAL SYMPOSIUM
ONSUPERCRITICAL FLUIDS Symposium sur les fluides supercritiques, Antibes > France, ts les trois ans. 22.04 - 26.04 2018,



March 10 2018

[233rd ECS Meeting \(May 13-17, 2018\): Recycling of All Battery Types](#)

<https://ecs.confex.com/ecs/233/webprogram/Session17590.html>

Recycling of Rare Earth Elements from Nickel Metal Hydride Battery Utilizing Supercritical Fluid Extraction. Y. Yao, N. F. Farac, and G. Azimi (University of Toronto). 17:00. 618 · ...



March 10 2018

[DECHEMA | 2nd Green Solvents Workshop
dechema.de/GSWS2018.html](http://dechema.de/GSWS2018.html)

... hands-on training with case studies was very good to know the challenges of solvents systems; The course allowed me to be fully involved in the main meeting. ... The prospective lectures cover molecular and engineering principles of non-conventional solvents, comprising aqueous phases, ionic liquids and supercritical ...



DECHEMA

Gesellschaft für Chemische Technik und Biotechnologie e.V.

SCF
Companies
SCF
Companies

March 14 2018

[A Systematic Approach to Developing Terpene
Extraction Conditions ...](https://www.chromatographytoday.com/.../supercritical...supercriti...)

<https://www.chromatographytoday.com/.../supercritical...supercriti...>

Supercritical fluid extraction (SFE) is an effective method for the separation of monoterpenes from sesquiterpenes, their alcohol derivatives, and cannabinoids. The most popular supercritical solvent used is carbon dioxide (CO₂). CO₂ is inexpensive and is generally recognised as safe solvent. CO₂ reaches supercritical ...

SUPERCritical FLUID (SFC), GREEN
CHROMATOGRAPHY



March 11 2018

[Offre d'emploi de Superviseur atelier process
technologique CO₂ et ...](https://fr.linkedin.com/.../superviseur-atelier-process-technologique-co2-et-s2-f-h-at-fir...)

<https://fr.linkedin.com/.../superviseur-atelier-process-technologique-co2-et-s2-f-h-at-fir...>

une Vision Globale Du Fonctionnement De La Production Tout En Étant Accessible Aux Autres Services ... Process de production supervisés: Distillation sur colonne, Distillation moléculaire, Hydrodistillation, Estérification, Extraction au CO₂ supercritique, Extraction solvant.



Job offer : Manager Position for extraction process workshop including Sc CO₂ process, Firmenich, France

Firmenich

March 12 2018

[SCFN](#)

www.scfn.eu/

Separeco is the CO2 systems designer. Exenia Group comes from scientific world. Exenia Group is the first company in Italy who developed the technology making use of supercritical fluid state and has a very detailed knowledge about herbal drugs and natural substances extraction processes. Mancin and Coproget comes ...



Web-page up dating of italian Supercritical fluid Network



March 13 2018

[Industrial Supercritical CO2 extraction equipment - YouTube](#)

<https://www.youtube.com/watch?v=Y3fYJJUy290>

Ajouté par DANZY CO LTD

Supercritical CO2 extraction machine Hemp CO2 Extraction Machine /CBD Extraction Machine for Cannabis ...



More information on Danzy Companie : <http://www.danzy.cn/index.asp>



March 7 2018

[Hiku Brands Applies for Cannabis Oil License, Launches Innovative ...](#)

<https://investingnews.com/.../hiku-brands-applies-cannabis-oil-lice...>

Vitalis is a Kelowna-based engineering and manufacturing company, producing the highest-flowing industrial supercritical CO2 extraction system for the cannabis market. The company's core focus on innovation and design has vaulted it to the forefront of the market. Renowned for their reliability, scalability, and continuous ...

H I K U

March 9 2018

[Large scale Supercritical co2 extraction machine installation 1 3 - CAREDDI SUPERCRITICAL CO2 EXTRACTION SYSTEM](#)

Large scale Supercritical co2 extraction machine installed in Miskolc, Hungary in March 2018.

[Detected on You Tube](#)



March 7 2018

[Leader Biomedical's proprietary eCOO® Technology - Leader Biomedical](#)

eCOO® Technology is Leader Biomedical's unique proprietary solution to clean, sterilise, and impregnate human and animal-

[Detected on You Tube : go directly at 1.29 min for CO2 cleaning explanation](#)



March 9 2018

[Extraction Technician Job at CanMar Recruitment Inc. in New ...](#)

<https://ca.linkedin.com/.../extraction-technician-at-canmar-recruitm...>

Extraction techniques could include but are not limited to supercritical fluid extraction. Knowledge of various techniques to characterize and ... Cleaning of equipment and extraction facility Maintaining strict inventory records of raw materials, chemicals and equipment. Record keeping of all details pertinent to extraction ...

[Detected on LinkedIn](#)



Scientific papers and news
scientific papers and news

March 10 2018

[Extraction of astaxanthin from microalgae: process design and ...](#)

iopscience.iop.org/article/10.1088/1757-899X/323/1/.../pdf

IOP Conference Series: Materials Science and Engineering ... main steps being the harvesting

process, the cell disruption, the spray drying, the supercritical Supercritical CO₂ extraction is widely used to extract high value products from microalgae such as astaxanthin [20, 21]. The fundamental principle behind this ...

March 8 2018

[JKU | CTO » Equipment - Polymer Reaction Engineering](#)

<https://www.jku.at/cto/content/e179610>

High pressure laboratory JKU Linz High pressure reactors. High Pressure Extraction Unit Supercritical Carbon Dioxide Extraction • Extraction unit: 0,7 l • Pressure: 1000 bar max • Temperature: 220 °C max • Condensation unit: 0,7 l • Pressure: 100 bar max • Temperature: 220 °C max ...



Up-dating of Johannes Laboratory, Australia web-page



Institute for
Chemical Technology of
Organic Materials



JOHANNES KEPLER
UNIVERSITÄT LINZ

March 9 2018

[Solubility of Tolbutamide and Chlorpropamide in Supercritical Carbon](#)

<https://pubs.acs.org/doi/full/10.1021/acs.jced.8b00000> Supercritical carbon dioxide (scCO₂) is a green solvent that is successfully employed in many research fields such as the biomedical,(8) food,(9) and textile(10) area. ... To the authors' knowledge, some non tabulated solubility data of TBD in scCO₂ are displayed in a plot that is reported in a conference paper,(23) while no ...



Journal of
chemical&engineering
data

March 11 2018

[Extraction of citronella grass solutes with supercritical CO₂ ...](#)

<https://www.sciencedirect.com/science/article/.../S08968446183005...> -

As an alternative to the traditional methods, the extraction with supercritical carbon dioxide has been emphasized [17,18], since the operation is commonly performed at low temperature, and



one of the most important advantages of using this technique is to prevent loss of thermolabile compounds by evaporation or thermal .

March 9 2018

[Optimization of supercritical carbon dioxide extraction of lutein and ...](#)

<https://www.sciencedirect.com/science/article/.../S00236438183023...> - - Highlights. • Valorization of Spinach residues for the development of nutraceutical food products. • Sustainable supercritical carbon dioxide extraction of Lutein and Chlorophyll. • Optimization of SC-CO₂ extraction parameters using response surface methodology.



March 9 2018

[Polymers | Free Full-Text | Extraction Optimization, Purification ... - MDPI](#)

www.mdpi.com/2073-4360/10/3/292
The arctic strain of Chlorella sp. (Chlorella-Arc) exists in the coldest and driest arctic ecosystems, and it is a new resource of active polysaccharides. The extraction of crude polysaccharide from Chlorella-Arc was optimized using the response surface methodology. A crude polysaccharide yield of approximately 9.62 ± 0.11% ...



March 9 2018

[Supercritical Hydrothermal Synthesis of Nanoparticles - Nanoparticle ...](#)

<https://www.sciencedirect.com/science/.../B9780444641106000603> -

In this chapter, nanoparticle synthesis using supercritical water is introduced. ...Synthesis of metal nanoparticles is possible in homogeneous reductive atmosphere provided in supercritical water. Nanocatalysts and radiation ... Figure 53.3. Flow-type rapid heating reactor for hydrothermal synthesis in supercritical fluid [6].

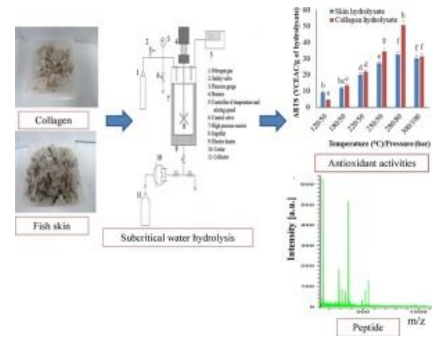


[Subcritical water hydrolysis for the production of bioactive peptides from tuna skin collagen](#)

In Press, Accepted Manuscript, Available online
12 March 2018

Raju Ahmed, Byung-Soo Chun

[Source : Science Direct](#)

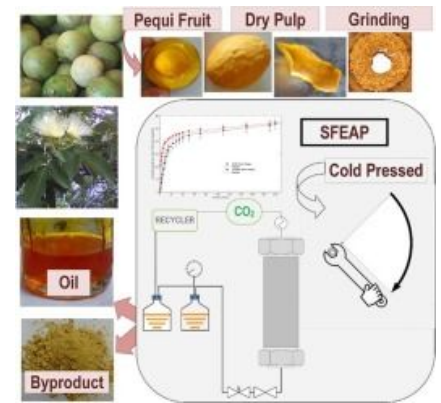


[Developing a supercritical fluid extraction method assisted by cold pressing: A novel extraction technique with promising performance applied to pequi \(Caryocar brasiliense\)](#)

In Press, Accepted Manuscript, Available online
12 March 2018

Júlio C.F. Johner, Tahmasb Hatami, M. Angela A. Meireles

[Source : Science Direc](#)

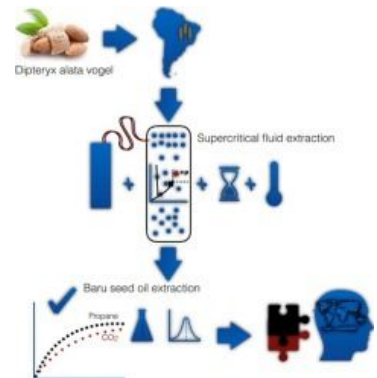


[Extraction of baru \(Dipteryx alata vogel\) seed oil using compressed solvents technology](#)

In Press, Accepted Manuscript, Available online 9
March 2018

Damian L. Fetzer, Pollyanna N. Cruz, Fabiane Hamerski, Marcos L. Corazza

[Source : Science Direct](#)



SCF
Products
Market
SCF
Products
Market

March 7 2018
[Médicaments à base d'extrait de Serenoa repens : non substituables](#)

www.celtipharm.com/.../Medicaments-a-base-d-extrait-de-Serenoa-repens-non-substit...
... Palmier de Floride BIOGARAN, Pharmatoka (Extrait CO2 supercritique). Dans la monographie européenne de Serenoa repens, seule la substance active (extrait) obtenue par



un procédé d'extraction utilisant un solvant hexanique – est classée par le Comité sur les médicaments à base de plantes de l'EMA (EMA/HMPC) ...



This article is about legal delivery of serenoa repens medicine produced by hexan process versus those produced by CO₂ extraction - source press release from Pierre Fabre Laboratory

March 8 2018

[Capsules de CBD avec Zéolite \(30 x 10 mg\) de Pharmahemp](#)

<https://www.cannamed.fr/capsules-de-cbd-avec-zéolite-de-pharmahemp-30-x-10-mg-...>

Cet extrait riche en CBD qui possède la particularité d'être soluble dans l'eau est obtenu grâce à la technique du CO₂ supercritique, permettant d'obtenir un résultat de qualité exceptionnelle. Les plantes de chanvre soigneusement sélectionnées par Pharmahemp sont cultivées de manière totalement biologique dans la ...



Microencapsulation of CO₂ CBD extracts enables to enhance CBD bioavailability



March 8 2018

[6 ml Raspberry Seed CO₂ Oil - New Directions Australia](#)

[https://shop.newdirections.com.au/6-ml-Raspberry-Seed-CO₂-Oil](https://shop.newdirections.com.au/6-ml-Raspberry-Seed-CO2-Oil)

Botanical Name: Rubus Idaeus. Common Name: Raspberry Seed Oil. Plant Parts: Seeds. Extraction Method: Supercritical carbon dioxide. ...



March 11 2018

[Hemp for Pets Ingredients | Learn What Pet Hemp Products Consist Of](#)

<https://canna-pet.com> › [How it Works](#)

Our commercial capsule products are formulated using industrial hemp. Specifically, they contain highly concentrated subcritical and supercritical CO2 extracts that are cGMP manufactured on an industrial scale, refined in our US laboratories, and ultimately formulated for palatability and safety. Our hemp is organic, ...



March 13 2018

[Astaxanthin 5 mg Softgels Liquid Capsules | Astaxanthin Antioxidant ...](#)

<https://www.pipingrock.com/astaxanthin/astaxanthin-5-mg-251>

24,99 \$US - En stock

Buy Discounted Astaxanthin 5 mg 120 Softgels Vitamins & Supplements online at PipingRock.com.



March 13 2018

[Hermitage Essential Oils](#)
<https://hermitageoils.com/>

We currently offer over 450 specialist essential oils, absolutes, CO2 extracts, natural isolates, extraits by enfleurage, balsams, resins, oleoresins, resinoids and artisan perfumery materials. There is a minimum order spend of €35 for the selection of countries we can supply. Normally all orders are dispatched within a ...



Hermitage Essential oil is an italian company - CO2 extracts are produced in Poland, India ..

hermitageoils

Europe's Specialist Supplier of Naturals Since 1979



Extended
technologies
extended
technologies


March 11 2018

[Global Leader in CO2 Cleaning, Dry Machining, & CO2 Extraction](#)

coolclean.com/

Machining using CO2 cooling enables the tool to remain at near ambient temperature, which increases tool life and cutting speeds compared to MQL and dry processes. CO2 extraction technology is improving the way oils are extracted from outgassing, botanical, and silicone applications. The extraction process effectively ...



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 icone :