

# Linklist ACS Webinar:

Dr. H.N. Cheng, ACS President 2021

1. All publications

<https://hncheng-acis.org/research/>

2. Selected open access publications Table:

DOI	Focus	Details
10.3390/suschem1030017	Cottonseed Protein Chemistry and Non-Food Applications	H. N. Cheng, Zhongqi He, Catrina Ford, Wade Wyckoff, Qinglin Wu. A Review of Cottonseed Protein Chemistry and Non-Food Applications. Sustainable Chem., 2020, 1, 256–274;
<a href="https://doi.org/10.1021/bk-2020-1373.ch011">10.1021/bk-2020-1373.ch011</a>	Review: Agro-Based Food Packaging Films	H. N. Cheng, Atanu Biswas, Roselayne F. Furtado, Carlucio R. Alves, Qinglin Wu. Design and Evaluation of Agro-based Food Packaging Films. ACS Symp. Ser., 2020, 1373, 193-204.
<a href="https://doi.org/10.1021/bk-2017-1258.ch012">10.1021/bk-2017-1258.ch012</a>	Novel polymeric products from biodiesel	Atanu Biswas, Zengshe Liu, R. Furtado, C.R. Alves, H. N. Cheng, Novel polymeric products derived from biodiesel. ACS Symp. Ser., 2017, 1258, 207-223
<a href="https://doi.org/10.1021/bk-2015-1192.ch015">10.1021/bk-2015-1192.ch015</a>	Review: Modifications of plant oils for value-added uses	H. N. Cheng and A. Biswas, Modification of Plant Oils for Value-Added Uses. ACS Symp. Ser., 2015, 1192, 235-247.
<a href="https://doi.org/10.3390/polym4021311">10.3390/polym4021311</a>	Review: Enzyme-catalyzed modifications of polysaccharides and poly(ethylene glycol)	H. N. Cheng, Q.-M. Gu, Enzyme-Catalyzed Modifications of Polysaccharides and Poly(ethylene Glycol), Polymers, 2012, 4, 1311-1330.

3. my poll for you is based on the following statistical data:

[Report of Results Global Survey on Sustainability and the SDGs](#)

**Dr. Frank Roschangar, Boehringer Ingelheim, Highly Distinguished Research Fellow, Innovation Unit Sustainability**

1. Latest publication in context (open access):

Improved iGAL 2.0 Metric Empowers Pharmaceutical Scientists to Make Meaningful Contributions to United Nations Sustainable Development Goal 12

Frank Roschangar\*, Jun Li\*, Yanyan Zhou, Wim Aelterman, Alina Borovika, Juan Colberg, David P. Dickson, Fabrice Gallou, John D. Hayler, Stefan G. Koenig, Michael E. Kopach, Birgit Kosjek, David K. Leahy, Erin O'Brien, Austin G. Smith, Manuel Henry, Jutta Cook and Roger A. Sheldon

<https://pubs.acs.org/doi/10.1021/acssuschemeng.1c01940>

2. Selected publications Table (not open access, but as always you can connect with the author to ask for a copy):

DOI	Focus	Details
<a href="https://pubs.acs.org/doi/10.1039/c8gc00616d">10.1039/c8gc00616d</a>	green manufacturing metric: iGAL	Roschangar, Frank; Zhou, Yanyan; Constable, David J. C.; Colberg, Juan; Dickson, David P.; Dunn, Peter J.; Eastgate, Martin D.; Gallou, Fabrice; Hayler, John D.; Koenig, Stefan G.; et al, Inspiring process innovation via an improved green manufacturing metric: iGAL, Green Chemistry, 2018, 20,10 2206- 2211
<a href="https://pubs.acs.org/doi/10.1002/9781119288152.ch1">10.1002/9781119288152.ch1</a>	Conference: Review: Green Chemistry Metrics	Roschangar, Frank; Colberg, Juan Edited by Zhang, Wei; Cue, Berkeley W.; Green Chemistry Metrics, Green Techniques for Organic Synthesis and Medicinal Chemistry (2 <sup>nd</sup> Edition), 2018, 1-19
<a href="https://pubs.acs.org/doi/10.1039/c6gc02901a">10.1039/c6gc02901a</a>	Sustainable drug manufacturing	Roschangar, Frank; Colberg, Juan; Dunn, Peter J.; Gallou, Fabrice; Hayler, John D.; Koenig, Stefan G.; Kopach, Michael E.; Leahy, David K.; Mergelsberg, Ingrid; Tucker, John L.; et al A deeper shade of green: inspiring sustainable drug manufacturing, Green Chemistry (2017) 19(1), 281-285
Geen ISBN Medicine Maker #0215	Minimization of waste and avoidance of toxic and hazardous substances in pharmaceutical products.	Roschangar, Frank; Senanayake Chris H., Kurose G, Sheldon Roger A. How Green is Green? Texerre Publishing Ltd 2015, 5, 26-27

<u>10.1039/c4gc01563k</u>	Overcoming barriers to green chemistry in the pharmaceutical industry	F. Roschangar, R. A. Sheldon and C. H. Senanayake; Overcoming barriers to green chemistry in the pharmaceutical industry – the Green Aspiration Level™ concept, Green chemistry, 2015, 17, 852-786
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**Klaus Kümmerer, Director, Institute of Sustainable and Environmental Chemistry and Chair of Sustainable Chemistry and Material Resources, Leuphana University Lüneburg**Links:

1. Community Poll JCF 2020 "Sustainability in Education"  
<https://jcf.io/en/organization/teams/team-sustainability>.

2. Study options at Leuphana University in Germany:

<https://www.leuphana.de/en/professional-school/masters-studies/sustainable-chemistry.html> (MSc)

<https://www.leuphana.de/en/professional-school/masters-studies/sustainable-chemistry-management.html> (MBA)

3. Selected publications Table: (not open access, but as always you can connect with the author to ask for a copy):

DOI	Focus	Details
10.1016/j.scp.2020.100270	Master of Science, Sustainable Chemistry	Elschami, Myriam & Kümmerer, Klaus. Design of a Master of Science, Sustainable Chemistry. Sustainable Chemistry and Pharmacy. 2020, 17, 100270
<a href="#">10.1039/D0GC03313H</a>	Education in green chemistry and in sustainable chemistry	Vânia G. Zuin, Ingo Eilks, Myriam Elschami and Klaus Kümmerer, Education in green chemistry and in sustainable chemistry: perspectives towards sustainability, Green Chemistry. 2021, 23, 1594-1608
10.1038/s41570-021-00253-w	Towards more sustainable curricula	Vânia G. Zuin, Klaus Kümmerer, Towards more sustainable curricula .Nature Reviews Chemistry, 2021, 5, 76–77

If you like to learn more about searching for green and sustainable chemistry in CAS SciFinder-n please select one of the two trainings sessions tomorrow.

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- Search Examples from Green or Sustainable Chemistry
- One hour webinar with experienced CAS experts including Q&A
- Pick from two options on Friday, September 10:
  - **5 AM EDT (11 AM CEST)** <https://bit.ly/SciFinderTraining1>
  - **9 AM EDT (3 PM CEST)** <https://bit.ly/SciFinderTraining2>

[Link](https://bit.ly/SciFinderTraining1)

[Link](https://bit.ly/SciFinderTraining2)

