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Interest in green chemistry and clean processes has grown so much in recent

years that topics such as fluororous biphasic catalysis, metal organic frameworks, and process intensification, which were barely mentioned in the First Edition, have become major areas of research. In addition, government funding has ramped up the development of fuel cells and biofuels. This reflects the evolving focus from pollution remediation to pollution prevention. Copiously illustrated with more than 800 figures, the Third Edition provides an update from the frontiers of the field. It features supplementary exercises at the end of each chapter relevant to the chemical examples introduced in each chapter. Particular attention is paid to a new concluding chapter on the use of green metrics as an objective tool to demonstrate proof of synthesis plan efficiency and to identify where further improvements can be made through fully worked examples relevant to the chemical industry. **NEW AND EXPANDED RESEARCH TOPICS** Metal-organic frameworks Metrics Solid acids for alkylation of isobutene by butanes Carbon molecular sieves Mixed micro- and mesoporous solids Organocatalysis Process intensification and gas phase enzymatic reactions Hydrogen storage for fuel cells Reactive distillation Catalysts in action on an atomic scale **UPDATED AND EXPANDED CURRENT EVENTS TOPICS** Industry resistance to inherently safer chemistry Nuclear power Removal of mercury from vaccines Removal of mercury and lead from primary explosives Biofuels Uses for surplus glycerol New hard materials to reduce wear Electronic waste Smart growth The book covers traditional green chemistry topics, including catalysis, benign solvents, and alternative feedstocks. It also discusses relevant but less frequently covered topics with

chapters such as "Chemistry of Long Wear" and "Population and the Environment." This coverage highlights the importance of chemistry to everyday life and demonstrates the benefits the expanded exploitation of green chemistry can have for society.

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<https://pub.norden.org/temanord2022-510/> Per- and polyfluoroalkyl substances (PFASs) are a large group of substances that have been widely used in articles

since many years. They are found wherever extreme conditions prevail and particularly high demands are placed on materials. Their use spans over many different sectors ranging from fire-fighting foams to the manufacture of everyday articles like water-repellent outdoor jackets or stain-proofing agents. On the other side, PFASs are not easily degradable and can remain in the environment for decades. In addition, the use of PFASs has raised human and environmental concerns. In Europe, some PFASs are therefore classified as persistent, bioaccumulative and toxic (PBT) and very persistent and very bioaccumulative (vPvB) under the REACH Regulation. The following report provides an overview of currently available analytical methods for PFASs in different matrices.

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