

Reference	Measured species	Wavelength	Methodology	Spatial resolution	Application
Ma et al [126]	H ₂ O and T	1350 nm	2D hyperspectral tomography, three FDM lasers for ~10 cm ⁻¹ sweep each at 50 kHz	38.3 mm	Exhaust of an aerospace engine
Cai and Kaminski [127]	-	-	Frequency-angle tomography, simultaneous reconstruction of T, μ , and P	-	Representative flame phantom
Saitake et al [128]	NH ₃	2200.5 nm	Limited-data tomography, Tikhonov regularization temporal resolution: 1 s	-	Diesel engine exhaust
Liu et al [129]	CO ₂ and T	4.2 μ m	2D scanning of the burner, phase-locked tomographic reconstruction, temporal resolution: 0.1 ms	0.5 mm	Acoustically forced swirling burner
Liu et al [125]	H ₂ O and T	744.36 cm ⁻¹ 7185.6 cm ⁻¹	Coplanar fan-beam illumination	7.8 mm	Lean blowout limit in a swirling flame
Wei et al [128]	CO, CO ₂ , C ₂ H ₂ , and T	4.97, 4.19, and 3.34 μ m	High-speed IR camera, 2D laser sheet imaging, 2D imaging with burner scan	50-125 μ m	Laboratory burner flame
Rancin et al [129]	CO and T	4.8 μ m	High-speed IR camera, 2D laser sheet imaging, temporal resolution: 0.1 s	140 μ m	Laminar partially premixed flame
Grauer et al [134]	H ₂ O and T	7326-7519 cm ⁻¹	Linear NAT	-	Turbulent phantom, nonuniform cylinder
Huang et al [135]	H ₂ O and T	744.36 cm ⁻¹ 7185.6 cm ⁻¹	Convolutional neural network (CNN) inversion, 3D-beam arrangement	-	Laboratory circular test rig
Wei et al [136]	CH ₄	3.34 μ m	Deep neural network (DNN) inversion, 3D species imaging	70 μ m	Laboratory burner flame
Deng et al [137]	T	-	Comparison of CNN with a deep belief network and a recurrent neural network for inversion	-	Simulated phantom
Wei et al [138]	CO	4.85 μ m	Volumetric imaging, LES-trained DNN	70 μ m	Laboratory burner flame
Wei et al [139]	CO, CO ₂ , and T	4.19 and 4.85 μ m	Volumetric imaging, 3D-masked Tikhonov regularization	70 μ m	Laboratory burner flame

Recent Developments In The Absorption Of

**Ashish Pandey, Bhagyashree
Tiwari, Ashok Pandey, Suzana Yusup**

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Current Developments in Biotechnology and Bioengineering Sunita Varjani, Ashok Pandey, R. D. Tyagi, Huu Hao Ngo, Christian Larroche, 2020-02-19 *Current Developments in Biotechnology and Bioengineering Emerging Organic Micropollutants* summarizes the current knowledge of emerging organic micropollutants in wastewater and the possibilities of their removal/elimination. This book attempts a thorough and exhaustive discussion on ongoing research and future perspectives on advanced treatment methods and future directions to maintain and protect the environment through microbiological/nanotechnological application of membrane technology, molecular biological, and by policymaking means. In addition, the book includes the latest developments in biotechnology and bioengineering pertaining to various aspects in the field of emerging organic micropollutants, including their sources, health effects, and environmental impacts. **Recent Developments in Separation Science** Norman N. Li, 1972 **New and Future Developments in Microbial Biotechnology and Bioengineering** Vijai Kumar Gupta, Susanne Zeilinger, Harikesh Bahadur Singh, Irina Druzhinina, 2020-07-12 *New and Future Developments in Microbial Biotechnology and Bioengineering Recent Developments in Trichoderma Research* covers topics on Trichoderma biodiversity, strain improvement, and related researches in bioprocess technology, chemical engineering, bioremediation, process, secondary metabolite production, protein production, plant disease resistance, and biocontrol technology. This book includes unique compilations of different chapters with emerging issues in the area of Trichoderma research and its related importance in the Biochemical Industry, Agri Food sector. Includes recent developments on Trichoderma research in plant biotechnology, agriculture, and in the environment. Provides a detailed and comprehensive coverage of the biodiversity and biochemistry of Trichoderma. Covers potential applications of Trichoderma in biotechnology, including secondary metabolites and protein engineering. [Guyton and Hall Textbook of Medical Physiology E-Book](#) John E. Hall, 2010-07-19 The 12th edition of *Guyton and Hall Textbook of Medical Physiology* continues this bestselling title's long tradition as one of the world's favorite physiology textbooks. The immense success of this book is due to its description of complex physiologic principles in language that is easy to read and understand. Now with an improved color art program, thorough updates reflecting today's medicine and science, this textbook is an excellent source for mastering essential human physiology knowledge. Learn and remember vital concepts easily thanks to short, easy-to-read, masterfully edited chapters and a user-friendly full-color design. See core concepts applied to real-life situations with clinical vignettes throughout the text. Discover the newest in physiology with updates that reflect the latest advances in molecular biology, cardiovascular, neurophysiology, and gastrointestinal topics. Visualize physiologic principles clearly with over 1000 bold, full-color drawings and diagrams. Distinguish core concepts from more in-depth material with a layout that uses gray shading to clearly differentiate between need-to-know and nice-to-know information. *Transactions of the American Institute of Chemical Engineers* American Institute of Chemical Engineers, 1924 **Current Developments in**

Biotechnology and Bioengineering Pooja Sharma, Ashok Pandey, Yen Wah Tong, Huu Hao Ngo, 2022-08-24 Advances in Phytoremediation Technology offers in depth information regarding the strategies and approaches facilitating the integration of technologies for wastewater treatment The book highlights the role of hydrophytes hyperaccumulators and native plants for accumulation and detoxification of industrial wastewater Various chapters presented in the book are focused on the sustainability approaches as the centre theme to facilitate industries policymakers in adopting circular economy goals Since the principle idea of circular bioeconomy is to make transition from linear economy it involves advanced technological and designing breakthroughs to reduce waste with a closed looped system This pioneers a cradle to cradle and waste to resources approach Integration of various technologies has been considered as possible best ways to utilize the industry wastewater treatment Covers integration of technologies and processes for wastewater treatment Reports plants species useful in effectively accumulating heavy metals from the treated wastewater Describes Phytoremediation for mass biotechnological processing of the industrial areas Academicians engineers researchers and stakeholders will find this book helpful in adaptation of suitable technologies for wastewater management

Current Developments in Biotechnology and Bioengineering Ashish Pandey, Bhagyashree Tiwari, Ashok Pandey, Suzana Yusup, 2022-09-10 Deep eutectic solvents represent the newest addition among all other non conventional and alternate solvent systems Deep Eutectic Solvent Fund Emerging Applications provides detailed insights on these neoteric solvents their synthesis methods types physicochemical properties and sustainable applications in emerging scientific areas The book follows a mechanistic approach on understanding the role of DESs as sustainable media for CO₂ capture biomass pretreatment as catalysts as reaction media for material synthesis cross coupling reactions templates for drug delivery etc The book offers a springboard for encouraging vital discussions and inspiring further innovations in the field of environmentally benign eutectic solvent systems Provides a detailed account of development on DESs with special focus on hydrophilic hydrophobic DESs Describes experimental and theoretical outlook on the physical and chemical properties of DESs Discusses the toxicity profiling of DESs and their importance in designing biocatalytic routes Includes DESs in emerging areas pharmaceuticals drug discovery functional materials and membrane science Covers use of DESs in CO₂ capture biomass transformations organic reactions etc

Performance of Explosives and New Developments Bibhu Mohanty, Vinay Kumar Singh, 2012-11-05 There is considerable scope for improving the outcome of any blasting operation through basic understanding and application of the principles of blasting science and technology The main objective of Performance of Explosives and New Developments is to sensitize the practitioner to critically examine the various empirical approaches in blasting whi **Petroleum Times**, 1919

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