

Reference	Measured species	Wavelength	Methodology	Spatial resolution	Application
Ma et al [126],	H <sub>2</sub> O and T	1350 nm	2D hyperspectral tomography, three FDM, lasers for ~10 cm <sup>-1</sup> sweep each at 50 kHz	38.3 mm	Exhaust of an aerospace engine
Cai and Kaminski [123]	-	-	Frequency-angle tomography, simultaneous reconstruction of T, $\mu$ , and P	-	Representative flame phantom
Saitake et al [133],	NH <sub>3</sub>	2200.5 nm	Limited-data tomography, Tikhonov regularization temporal resolution: 1 s	-	Diesel engine exhaust
Liu et al [130],	CO <sub>2</sub> and T	4.2 $\mu$ 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 <sub>2</sub> O and T	744.36 cm <sup>-1</sup> 7185.6 cm <sup>-1</sup>	Coplanar fan-beam illumination	7.8 mm	Lean blowout limit in a swirling flame
Wei et al [128],	CO, CO <sub>2</sub> , C <sub>2</sub> H <sub>2</sub> , and T	4.97, 4.19, and 3.34 $\mu$ m	High-speed IR camera, 1D laser sheet imaging, 2D imaging with burner scan	50–125 $\mu$ m	Laboratory Bunsen flame
Rancin et al [129],	CO and T	4.8 $\mu$ m	High-speed IR camera, 2D laser sheet imaging, temporal resolution: 0.1 s	140 $\mu$ m	Laminar partially premixed flame
Gruer et al [134],	H <sub>2</sub> O and T	7326–7519 cm <sup>-1</sup>	Linear HAT	-	Turbulent phenomena, nonuniform cylinder
Huang et al [135],	H <sub>2</sub> O and T	744.36 cm <sup>-1</sup> 7185.6 cm <sup>-1</sup>	Convolutional neural network (CNN) inversion, 3D-beam arrangement	-	Laboratory circular test rig
Wei et al [136],	CH <sub>4</sub>	3.34 $\mu$ m	Deep neural network (DNN) inversion, 3D species imaging	70 $\mu$ m	Laboratory Bunsen 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 $\mu$ m	Volumetric imaging, LES-trained DNN	70 $\mu$ m	Laboratory Bunsen flame
Wei et al [139],	CO, CO <sub>2</sub> , and T	4.19 and 4.85 $\mu$ m	Volumetric imaging, 3D-masked Tikhonov regularization	70 $\mu$ m	Laboratory Bunsen flame

# Recent Developments In The Absorption Of

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

## **Recent Developments In The Absorption Of:**

**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* Po Li. N N,2018-05-04 Volume two of the series focuses on the topics of extraction filtration heatless adsorption hydrometallurgical extraction interfacial phenomena separation of gases by regenerative sorption various polymeric membrane systems such as electrodialysis ultrafiltration reverse osmosis Gas and liquid separations by selective permeation through polymeric membrane and the origin of separate system The last topic as a special feature of interest provides an analysis of the genesis and development of new separation techniques 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 *Modern Developments in Powder Metallurgy* Henry H. Hausner,2013-03-09 Of Volume 2 Ferrous Powder Metallurgy Some Aspects of the Sintering of Iron Powder The Mechanism of Sintering of Iron Alpha and Gamma Phase Sintering of Carbonyl and Other Iron Powders Investigation of the Activated Sintering of Iron Powder The Use of Byproduct Steel Powder from Ball Bearing Production in Powder Metallurgy The Corrosion Resistance of Sintered Austenitic Stainless Steel Dispersion Strengthening Dispersion Strengthened Nickel by Compaction and Rolling of Powder Produced by Pressure Hydrometallurgy On the Mechanisms of Plastic Deformation of SAP Type Alloys *Recent Developments in Separation Science* Norman N. Li,1972

**New Developments in Mining Engineering 2015** Genadiy Pivnyak,Volodymyr Bondarenko,Iryna

Kovalevska,2015-10-14 This annual series of books includes scientific papers on mining profiles This volume presents multiple aspects of mining technology implementation in several aspects extraction of coal iron manganese uranium and other ores Capturing and utilization of coalbed methane by various methods including alternative ones safety measures in mining ecological aspects etc Specific attention is paid to intensification of mineral resources extraction processes by way of modernizing opening methods development and mining methods depending on mining geological conditions Experimental results of stress strain state rock massif forecast by means of computational experiments using recursive methods are also discussed Any mining operations should finally result in adequate recovery of land surface and utilization of mining wastes using various environmentally friendly methods thus sufficient attention is paid to this scientific trend Non traditional methods of minerals mining are becoming more topical and of higher demand in the modern society Hence several papers chapters are devoted to underground coal gasification and its subsequent processes In addition extraction technologies of gas hydrate as a source of an abundant amount of natural gas are thoroughly examined in this book including implementation of gas hydrate technologies for mine methane utilizations with its following transportation in a solid state Furthermore attention is given to evaluation of economic efficiency of minerals mining by the proposed methods their ways of enrichment ecological aspects and the influence of mining production on the environment innovational logistic solutions at mining enterprises and also to perspectives of Ukraine s mining industry integration to the European standards 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 CO<sub>2</sub> 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 CO<sub>2</sub> capture biomass transformations organic reactions etc **New Developments in**

**Polymer Analysis, Stabilization and Degradation** Gennadiĭ Efremovich Zaikov, 2005 *New Developments in Polymer Analysis Stabilisation Degradation* *Recent Developments in Mass Spectrometry in Biochemistry and Medicine*, 6 Alberto Frigerio, Malcolm McCamish, 1980 *Journal of the Society of Chemical Industry* Society of Chemical Industry (Great Britain), 1893 Includes list of members 1882 1902 and proceedings of the annual meetings and various supplements

**Transactions of the American Institute of Chemical Engineers** American Institute of Chemical Engineers, 1924

**Current Developments in Optical Design and Engineering VI** Robert Edward Fischer, Warren J. Smith, 1996

*Recent Developments in the Clinical Use of Norfloxacin* Ragnar Norrby, 1988 *Handbook on the Physics and Chemistry of Rare Earths: without special title* Karl A. Gschneidner, LeRoy Eyring, 1987 This volume of the handbook covers a variety of topics with three chapters dealing with a range of lanthanide magnetic materials and three individual chapters concerning equiatomic ternary ytterbium intermetallic compounds rare earth polysulfides and lanthanide organic complexes Two the chapters also include information of the actinides and the comparative lanthanide actinide behaviors *Toxicokinetics and New Drug Development* Avraham Yacobi, Jerome P. Skelly, Vijay K. Batra, 1989 *Wintrobe's Clinical Hematology* John P. Greer, 2009 Now available in a thoroughly revised Twelfth Edition Wintrobe's Clinical Hematology continues to be an industry leader with its ability to correlate basic science with the clinical practice of hematology With the first edition of Wintrobe's Clinical Hematology published in 1942 clearly establishing hematology as a distinct subspecialty of Internal Medicine the latest edition continues the influence of the Wintrobe name and helps to set this book apart from the competition With its strong focus on the clinical aspects of hematology the book has generated a strong following among internists and general practitioners who want a single resource to consult for their patients who present any blood related disorder The Twelfth Edition is in full color for the first time boasts a new editorial team and includes expanded coverage of new medications and four new chapters on Newborn Anemias Pathology of LHC Spleen Tumors and Myeloproliferative Disorders and Mast Cell Disease A companion Website will offer the fully searchable text and an image bank **Dictionary**  
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*the chemical and biological sciences* Henry Smith Williams, Edward Huntington Williams, 1904  
Gastroenterology, 1970

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