

Organic Molecular Photophysics

Volume 27

Editor

John D. Roberts
University of California,
Los Angeles and National Institute of
Standards and Technology

ISSN 0022-286X (print)

ISSN 1097-0513 (electronic)

JOHN WILEY & SONS

Editorial

Volume 27

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Organic Molecular Photophysics

Fei-Wern Jeng

Organic Molecular Photophysics:

Organic Molecular Photophysics John Betteley Birks,1973 Organic Molecular Photophysics John Betteley Birks,1973 **Organic Molecular Photophysics. Editor: John B. Birks** John Betteley Birks,1973 *Organic Molecular Photophysics and Photochemistry with Hydrophylic Derivatives of Thionine* Lolita de los A. Rodríguez Rodríguez,1985

Excited States and Photochemistry of Organic Molecules Martin Klessinger,Josef Michl,1995 A significantly updated translation of Lichtabsorption und Photochemie Organischer Moleküle published by VCH in 1989 A graduate textbook that provides a qualitative description of electronic excitation in organic molecules and of the associated spectroscopy photophysics and photochemistry The treatment is non mathematical and emphasizes the use of simple qualitative models for developing an intuitive feeling for the course of photophysical and photochemical processes in terms of potential energy hypersurfaces Special attention is paid to recent developments particularly to the role of conical intersections Annotation copyright by Book News Inc Portland OR

Photophysics of Organic Molecules at High Pressure Dean James Mitchell,1978 Photochemical Processes in Organized Molecular Systems K. Honda,2012-12-02

Photochemical processes form the basis of life Energy transfer through photons also underlies a wide range of phenomena ranging from the motion of atoms and molecules to the assembly of systems of molecules such as polymers Langmuir Blodgett films and even liquid crystals Photochemical Processes in Organized Molecular Systems provides an overview of recent photochemical investigations of systems of molecules The book is divided into four parts the first two deal with current progress on the understanding of photoinduced chemical processes the third and fourth chapter deal with the photochemistry of organized molecular systems including polymers micelles and liquid crystals This book should be studied by all who want to know more about this promising field of photochemical research and about the fascinating processes that light can bring about

Principles of Fluorescence Spectroscopy Joseph R. Lakowicz,2007-12-05 The third edition of this established classic text reference builds upon the strengths of its very popular predecessors Organized as a broadly useful textbook Principles of Fluorescence Spectroscopy 3rd edition maintains its emphasis on basics while updating the examples to include recent results from the scientific literature The third edition includes new chapters on single molecule detection fluorescence correlation spectroscopy novel probes and radiative decay engineering Includes a link to Springer Extras to download files reproducing all book artwork for easy use in lecture slides This is an essential volume for students researchers and industry professionals in biophysics biochemistry biotechnology bioengineering biology and medicine

A Catalog of Data Compilations on Photochemical and Photophysical Processes in Solution James G. Brummer,W. Phillip Helman,Alberta B. Ross,1980 **Photophysics of Organic Molecules at High Pressure** ,1978 The pressure dependence of emission intensities energies and lifetimes of several classes of organic compounds in plastic media were investigated over the range 0 140 kilobars The fluorescence intensity of 9 anthraldehyde 9 acetylanthracene and 9 benzoylanthracene

increases remarkably with increasing pressure accompanied by a large red shift in the emission spectrum For azulene and several derivatives the efficiency of fluorescence from both the second and first excited singlet states was pressure dependent as was the relative energy of these states The rate of internal conversion depended strongly on the energy separating the relevant states The energy and quantum efficiency of fluorescence for fluorenone in crystalline form and in several polymeric matrices was measured as a function of pressure The quantum yield ranged from 0.001 at low pressure to a maximum of about 0.1 at high pressure in paraffinic plastics Fluorescence quantum yields and phosphorescence quantum yields and lifetimes were measured for pyrazine P 2 6 dimethylpyrazine and tetramethylpyrazine TMP in PMMA over the pressure range 20–120 kbar An additional emission which is attributed to excimer fluorescence was also observed for these samples and for crystalline pyrazine The phosphorescence radiative lifetime for P and TMP was about 18 ms

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Special Publication ,1980 **High Pressure Photophysics of Organic Molecules** Larry Alden Brey,1979 **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards,1976

Organic

Photochemistry and Photophysics V. Ramamurthy,Kirk S. Schanze,2005-11-14 Featuring contributions from leading experts Organic Photochemistry and Photophysics is a unique resource that addresses the organic photochemistry and photophysical behavior in aromatic molecules thiocarbonyls selected porphyrins and metalloporphyrins The book presents theories pertaining to radiative and radiationless transitions It

Principles and Applications of Photochemistry Richard

Peer Wayne,1988 An attempt to explain and chart the photochemical processes and to provide an understanding of the relationships between reactivity and electronic and molecular structure The book surveys photochemical processes found in

nature and some commercial and laboratory applications

Photophysics and Photochemistry of Some Organic Molecules

Including Liquid Crystal Systems Fei-Wern Jeng,1988

Photochemistry and Photophysics Vincenzo Balzani,Paola

Ceroni,Alberto Juris,2024-08-22 Connects principles processes and experimental techniques with current research in the continuously expanding field of photochemistry and photophysics Photochemistry and Photophysics covers a wide spectrum of concepts in photochemistry and photophysics introducing principles processes and experimental techniques with a wealth of examples of current applications and research spanning natural photosynthesis photomedicine photochromism

luminescent sensors energy conversion and storage and sustainability issues In this Second Edition several chapters have been revised considerably and others have been almost entirely rewritten A number of schemes and figures have been added and the reference list at the end of each chapter has been extended and updated Clearly structured the first part of the text discusses the formation properties and reactivity of excited states of inorganic and organic molecules and supramolecular species and the second part focuses on photochemical and photophysical processes in natural and artificial systems Readers will learn how photochemical and photophysical processes can be exploited for novel unusual and unexpected applications Written by world renowned experts in the field Photochemistry and Photophysics includes information on Formation

electronic structure properties chemical reactivity and radiative and nonradiative decay of electronically excited states Fundamental concepts and theoretical approaches concerning energy transfer and electron transfer Peculiar light absorption emission spectra and the photochemical properties of the various families of organic molecules and metal complexes Equipment techniques procedures and reference data concerning photochemical and photophysical experiments including warnings to avoid mistakes and misinterpretations Relationships between photochemical photophysical and electrochemical properties of molecules that enable interconversion between light and chemical energy With an appropriate mix of introductory intermediate and advanced content this is an ideal textbook resource for related undergraduate and postgraduate courses The text is also valuable for scientists already active in photochemical and photophysical research who will find helpful suggestions to undertake novel scientific projects *Optics and Spectroscopy*, 1980 *Modern Molecular Photochemistry of Organic Molecules* Nicholas J. Turro, V. Ramamurthy, J.C. Scaiano, 2010-02-10 A complete revision of Turro's classic text *Modern Molecular Photochemistry* which has been the standard of the field for three decades It presents a clear introduction to organic chemistry and goes on to cover the mechanisms of organic photoreactions and the photochemistry of the basic functional groups of organic chemistry *High Pressure Photophysics of Organic Molecules*, 1979 High pressure spectroscopic studies on several classes of organic compounds were made both in fluid solution to 10 kbar and in polymeric media to 40 kbar The first three studies were conducted in fluid solution and concern the effect of solvent viscosity on the nonradiative deactivation rates from electronically excited states Pressure was utilized to attain high viscosities in organic solvents at room temperature The primary experimental technique used was fluorescence emission spectroscopy In the fourth and last study observations were made both in fluid solution and in plastic films The focus of this study was the effect of pressure on the solvent chromophore dispersion interaction in several polyenes and the concomitant changes in both the radiative and non radiative rates from the excited states Extensive use was made of fluorescence lifetime measurements and excitation spectra 105 references

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