



Hyperion Series Bruker

**Thierry Djenizian, Nicolas Hans
Voelcker**



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Van Gogh's Sunflowers Illuminated Ella Hendriks, Marije Vellekoop, Maarten Bommel, Muriel Geldof, 2025-10-01
Vincent van Gogh's Sunflowers are seen by many as icons of Western European art. Two of these masterpieces, the first version painted in August 1888 (The National Gallery London) and the painting made after it in January 1889 (Van Gogh Museum Amsterdam) have been the subject of a detailed comparison by an interdisciplinary team of experts. The pictures were examined in unprecedented depth using a broad array of techniques, including state-of-the-art non-invasive imaging analytical methods to look closely at and under the paint surface. Not only the making but also the subsequent history of the works was reconstructed, including later campaigns of restoration. The study's conclusions are set out in this book, along with the fascinating genesis of the paintings and the sunflower's special significance to Van Gogh. More than 30 authors, all specialists in the field of conservation science and art history, have contributed to the research and publication, presenting the outcomes of this unique project.

Linear Electrodynamical Response of Topological Semimetals Artem V. Pronin, 2023-08-17
This book provides a model description for the electromagnetic response of topological nodal semimetals and summarizes recent experimental findings in these systems. Specifically, it discusses various types of topological semimetals: Dirac, Weyl, nodal line, triple point, and multifold semimetals, and provides a description for the characteristic features of the linear electrodynamic response for all these types of materials. Topological semimetals possess peculiar bulk electronic band structures which lead to unusual electrodynamic responses. For example, the low-energy inter-band optical conductivity of nodal semimetals is supposed to demonstrate power-law frequency dependence, and the intra- and inter-band contributions to the conductivity are often mixed. Further, the magneto-optical response is also unusual because of the non-equidistant spacing between the Landau levels. Finally, in semimetals with chiral electronic bands (e.g., in Weyl semimetals), the simultaneous application of parallel magnetic and electric fields leads to the chiral anomaly, i.e., to a misbalance between the electrons with different chiralities. This misbalance affects the electrodynamic properties of the material and can be detected optically. All these points are addressed here in detail. The book is written for a wide audience of physicists working in the field of topological condensed matter physics. It gives a pedagogical introduction, enabling graduate students and non-experts to familiarize themselves with the subject.

Chemistry and Industry, 2002
Metal Soaps in Art Francesca Casadio, Katrien Keune, Petria Noble, Annelies Van Loon, Ella Hendriks, Silvia A. Centeno, Gillian Osmond, 2019-03-23
This goes to reference work surveys the current state of knowledge in the field of metal soap-related degradation phenomena in art works. It contains detailed descriptions and images of the different phenomena and addresses the practical aspects of soap formation, preventive conservation, and treatment. The occurrence of metal soaps is one of the defining issues in the conservation of painted surfaces and one that presently leaves innumerable open questions. It is estimated that around 70% of paintings in museum collections are affected by some form of metal soap-related degradation. In recent years, significant

advances have been made in the detection and characterization of these compounds through interdisciplinary approaches including conventional spectroscopy and microscopy as well as emerging synchrotron based techniques This book for the first time captures a panoramic overview of the state of knowledge of metal soaps related to both scientific analysis and implications for conservation and treatment It also critically examines open questions The book is accessible to audiences with varied backgrounds e g conservators students of conservation science while simultaneously presenting the technical details indispensable for academics and researchers active in this field **American Laboratory** ,2002 **Advances in Porous Semiconductor Research** Thierry Djenizian,Nicolas Hans Voelcker,2020-03-30 Material Research and Applications Duan Ling Li, Da Wei Zheng, Jun Shi, 2014-02-27 Selected peer reviewed papers from the 2012 International Conference on Advanced Material and Manufacturing Science ICAMMS 2012 December 20 21 2012 Beijing China

Conservation of Modern Oil Paintings Klaas Jan van den Berg, Ilaria Bonaduce, Aviva Burnstock, Bronwyn Ormsby, Mikkel Scharff, Leslie Carlyle, Gunnar Heydenreich, Katrien Keune, 2020-02-17 Artists oil paints have become increasingly complex and diverse in the 20th Century applied by artists in a variety of ways This has led to a number of issues that pose increasing difficulties to conservators and collection keepers A deeper knowledge of the artists intent as well as processes associated with material changes in paintings is important to conservation which is almost always a compromise between material preservation and aesthetics This volume represents 46 peer reviewed papers presented at the Conference of Modern Oil Paints held in Amsterdam in 2018 The book contains a compilation of articles on oil paints and paintings in the 20th Century partly presenting the outcome of the European JPI project Cleaning of Modern Oil Paints It is also a follow up on Issues in Contemporary Oil Paint Springer 2014 The chapters cover a range of themes and topics such as patents and paint manufacturing in the 20th Century characterization of modern contemporary oil paints and paint surfaces artists materials and techniques the artists voice and influence on perception of curators conservators and scientists model studies on paint degradation and long term stability approaches to conservation of oil paintings practical surface treatment and display The book will help conservators and curators recognise problems and interpret visual changes on paintings which in turn give a more solid basis for decisions on the treatment of these paintings WIRMS 2009 5th International Workshop on Infrared Microscopy and Spectroscopy with Accelerator Based Sources Adriana Predoi-Cross, Brant E. Billinghamurst, 2010-03-01 The 5th International Workshop on Infrared Microscopy and Spectroscopy with Accelerator Based Sources brought Synchrotron and Free Electron Laser Scientists together to discuss the latest developments and future developments in the rapidly advancing fields of accelerator based Spectroscopy and microscopy and the applications of said fields **New Material and Chemical Industry** Shixuan Xin, 2020-05-12 4th International Conference on New Material and Chemical Industry NMCI 2019 Selected peer reviewed papers from the 4th International Conference on New Material and Chemical Industry NMCI 2019 November 16 18 2019 Xiamen China Infrared and Raman Spectroscopy Günter G. Hoffmann, 2023-09-18 Quite a few excellent books

about vibrational spectroscopy have already been published So why write a new one The last years have seen the birth of new techniques and first of all a wealth of new applications Therefore a lot of new users need an introduction to these techniques and applications but if they are new to vibrational spectroscopy an introduction to the parent techniques as well Vibrational spectroscopies can detect and analyze vibrations in molecules Mainly two different forms are used today Infrared and Raman spectroscopy Vibrational spectroscopy is used by chemists to characterize their substances If the spectra of substances are known analytical chemists can use them to analyze a mixture of chemicals Samples may be analyzed even with spatial resolution on the microscopic as well as on the macroscopic scale Infrared and Raman Spectroscopy is intended for researchers or lecturers in Chemistry Physics Materials Science and Life Sciences who are interested in the composition and properties of their samples It describes how vibrational spectroscopy will enable them to examine thin layers surfaces and interfaces and also improve their knowledge about the properties of composites Special chapters introduce VCD ROA and TERS The book can serve as a short introduction to vibrational spectroscopy too so that students at the first graduate level will benefit from it as well Proglucagon-Derived Peptides Peter Flatt,Filip K. Knop,Andrei I. Tarasov,2022-01-06

Science and Art Antonio Sgamellotti,Brunetto Giovanni Brunetti,Costanza Miliari,2020-02-24 Science and art are increasingly interconnected in the activities of the study and conservation of works of art Science plays a key role in cultural heritage from developing new analytical techniques for studying the art to investigating new ways of preserving the materials for the future For example high resolution multispectral examination of paintings allows art historians to view underdrawings barely visible before while the use of non invasive and micro sampling analytical techniques allow scientists to identify pigments and binders that help art conservators in their work It also allows curators to understand more about how the artwork was originally painted Through a series of case studies written by scientists together with art historians archaeologists and conservators Science and Art The Painted Surface demonstrates how the cooperation between science and humanities can lead to an increased understanding of the history of art and to better techniques in conservation The examples used in the book cover paintings from ancient history Renaissance modern and contemporary art belonging to the artistic expressions of world regions from the Far East to America and Europe Topics covered include the study of polychrome surfaces from pre Columbian and medieval manuscripts the revelation of hidden images below the surface of Van Gogh paintings and conservation of acrylic paints in contemporary art Presented in an easily readable form for a large audience the book guides readers into new areas uncovered by the link between science and art The book features contributions from leading institutions across the globe including the Metropolitan Museum of Art New York Art Institute of Chicago Getty Conservation Institute Opificio delle Pietre Dure Firenze National Gallery of London Tate Britain Warsaw Academy of Fine Art and the National Gallery of Denmark as well as a chapter covering the Thangka paintings by Nobel Prize winner Richard Ernst *Journal of the American Institute for Conservation* American Institute for Conservation of Historic

and Artistic Works,2007 *Complex Dynamics and Fluctuations in Biomedical Photonics ...* ,2006 *Catalog of the Library of the Museum of Modern Art: Rej* Museum of Modern Art (New York, N.Y.). Library,1976 *Applied Spectroscopy* ,2009

Homage to Marcel Gromaire, 1892-1971 R.S. Johnson International,Marcel Gromaire,1977 The Bauvist Painters
Georges Guthuit ,1950 The Fauvist Painters Georges Duthuit,1950 The eleventh volume in the series The Documents of Modern Art edited by Robert Motherwell

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