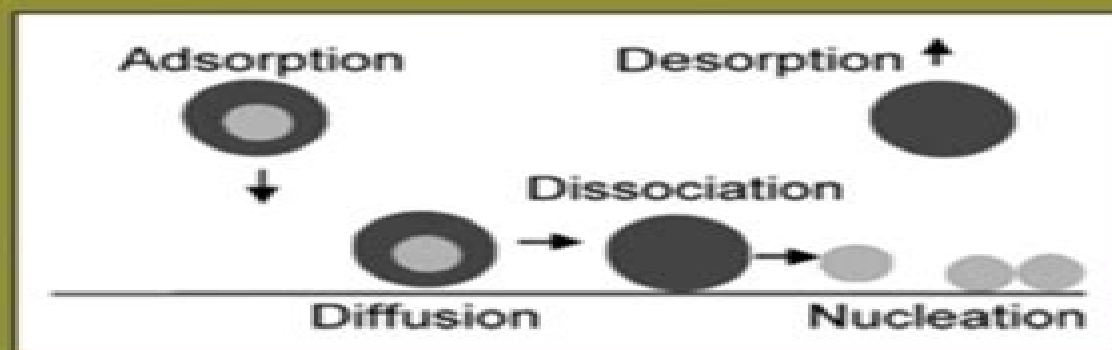


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LUMINOUS CHEMICAL VAPOR DEPOSITION and INTERFACE ENGINEERING



Hirotsugu Yasuda

Luminous Chemical Vapor Deposition And Interface Engineering

Stoyl P. Stoylov, Maria V. Stoimenova



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luminous chemical vapor deposition MLCVD method is the perfect example of the front end green process. It employs an entirely new process that expends the minimum amount of materials in gas phase, yields virtually no effluent, and therefore requires no environmental remediation. Unlike the back end green process which calls for add on processes to deal with effluent problems, the newer MLCVD approach is a completely different phenomenon that has never been adequately described until now. Dispelling previous misconceptions and revealing new areas for investigation, Magneto Luminous Chemical Vapor Deposition describes the key process of dielectric breakdown of gas molecules under the influence of a magnetic field. It emphasizes behavioral distinctions between molecular gases that cause plasma polymerization, such as methane and trimethylsilane, and mono atomic gases, e.g. helium and argon, when dealing with the dielectric breakdown of the gas phase under low pressure. The author also reveals his minimum perturbation theory of biocompatibility. This is based on the realization that nanofilms prepared using MLCVD have unique stable interfacial characteristics necessary to achieve a surface that can be tolerated in various biological environments. The author presents alternating views based on NASA's recent discovery that a magnetic field burst from the earth triggers the inception of the aurora borealis. Detailing similarities between this phenomenon and the inception of the magneto luminous gas phase described in this book, the author proposes that proof of the one occurrence could shed light on the other. Expanding on the author's previous works, this book introduces new discoveries, highlights the newfound errors of previous assumptions, and juxtaposes many cutting edge alternative views and anomalies associated with the field.

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should also be appreciated that over the past decades a number of novel nanostructures have been developed but whatever we call them we cannot forget that their properties and behavior are still in the realm of colloid and interface science. However, one views it the interest and funding in nano science is a tremendous opportunity to advance critical research in colloid chemistry. *Nanoscience Colloidal and Interfacial Aspects* brings together a prominent roster of 42 leading investigators and their teams who detail the wide range of theoretical and experimental knowledge that can be successfully applied for investigating nanosystems many of which are actually well known colloidal systems. This international grouping of pioneering investigators from academia and industry use these pages to provide researchers of today and tomorrow with a full examination of nano disperse colloids homogeneous and heterogeneous nano structured materials and their properties and shelf organization at the nano scale. This cutting edge reference provides information on investigations into non linear electrokinetic phenomena in nano sized dispersions and nano sized biological systems. It discusses application aspects of technological processes in great detail providing scientists and engineers across all fields with authoritative commentary on colloid and interface science operating at the nanoscale. *Nano Science Colloidal and Interfacial Aspects* provides an authoritative resource for those wanting to familiarize themselves with current progress as well as for those looking to make their own impact on the development of new technologies and practical applications in fields as diverse as medicine materials and environmental science to name but a few. Whether you call the technology nano or colloids the field continues to be ripe with opportunity.

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modification of fibres for use in composites and the potential use of plasma technologies for the finishing of fabrics made of man made fibres The final chapter in the book gives a comprehensive analysis of the surface chemical and physical characterisation of plasma treated fabrics Written by a distinguished international team of experts Plasma technologies for textiles is an invaluable reference for researchers scientists and technologists alike Summarises both the science and technology of plasma processing and its practical applications Discusses how plasma technology improves textile properties such as wettability and liquid repelling An invaluable reference for researchers scientists and technologists Microporous Media Freddy Romm, 2004-03-29 Microporous Media presents new developments from nearly a decade of advancement Written by a leading researcher in the field this reference provides examples of the most original scientific and technical research impacting studies in porosity and microporosity and illustrates methods to forecast the properties of microporous structures for impro

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