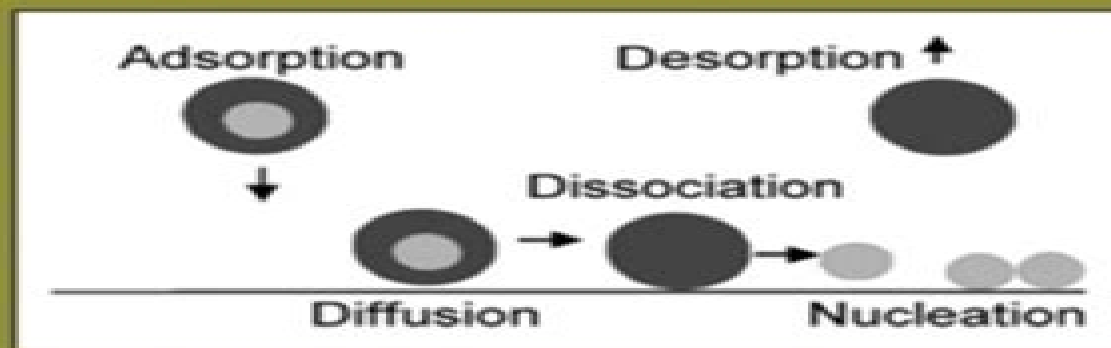


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LUMINOUS CHEMICAL VAPOR DEPOSITION and INTERFACE ENGINEERING



Hirotsugu Yasuda

Luminous Chemical Vapor Deposition And Interface Engineering

HIROTSUGU. YASUDA



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Luminous Chemical Vapor Deposition and Interface Engineering HIROTSUGU. YASUDA, 2020-06-30 Providing in depth coverage of the technologies and various approaches Luminous Chemical Vapor Deposition and Interface Engineering showcases the development and utilization of LCVD procedures in industrial scale applications It offers a wide range of examples case studies and recommendations for clear understanding of this innovative science The book comprises four parts Part 1 describes the fundamental difference between glow discharge of an inert gas and that of an organic vapor from which the concepts of Luminous Gas Phase derive Part 2 explores the various ways of practicing Luminous Vapor Disposition and Treatment depending on the type and nature of substrates Part 3 covers some very important aspects of surface and interface that could not have been seen clearly without results obtained by application of LCVD Part 4 offers some examples of interface engineering that show very unique aspects of LCVD interface engineering in composite materials biomaterial surface and corrosion protection by the environmentally benign process Timely and up to date the book provides broad coverage of the complex relationships involved in the interface between a gas solid liquid solid and a solid solid The author presents a new perspective on low pressure plasma and describes key aspects of the surface and interface that could not be shown without the results obtained by LCVD technologies Features Provides broad coverage of complex relationships involved in interface between a gas solid a liquid solid and a solid solid Addresses the importance of the initial step of creating electrical glow discharge Describes the principles of creating chemically reactive species and their growth in the luminous gas phase Focuses on the nature of surface state of solid and on the creation of imperturbable surface state by the contacting phase or environment which is vitally important in creating biocompatible surface providing super corrosion protection of metals by environmentally benign processes etc Offers examples on how to use LCVD in the interface engineering process Presents a new view on low pressure low temperature plasma and emphasizes the importance of luminous gas phase and chemical reactions that occur in the phase About the author Dr Yasuda is one of the pioneers who explored low pressure plasma for surface modification of materials and deposition of nano films as barrier and perm selective membranes in the late 1960s He obtained his PhD in physical and polymer chemistry working on transport properties of gases and vapors in polymers at State University of New York College of Environmental Science and Forestry at Syracuse NY He has over 300 publications in refereed journals and books and is currently a Professor Emeritus of Chemical Engineering and Director Center for Surface Science Plasma Technology University of Missouri Columbia and is actively engaged in research on the subjects covered by this book

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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.

Nuclear Magnetic Resonance Studies of Interfacial Phenomena Vladimir M. Gun'ko, Vladimir V. Turov, 2013-04-08 Properties and applications of high surface area materials depend on interfacial phenomena including diffusion sorption dissolution solvation surface reactions catalysis and phase transitions. Among the physicochemical methods that give useful information regarding these complex phenomena nuclear magnetic resonance NMR spectroscopy is the

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