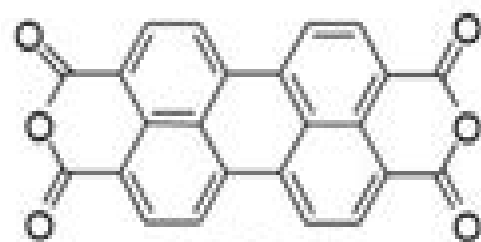
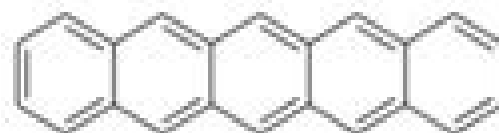


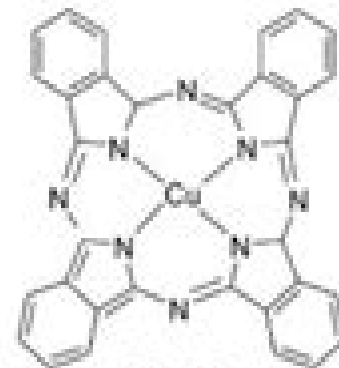
(a)



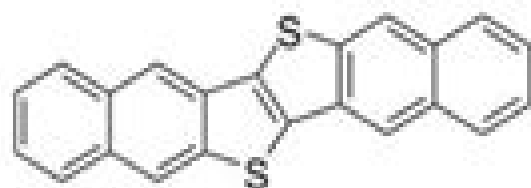
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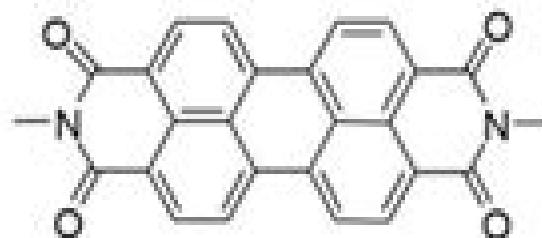
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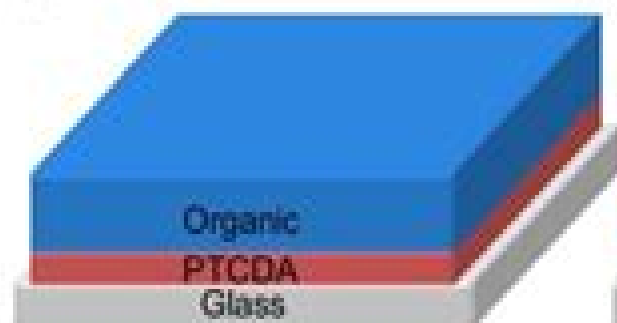


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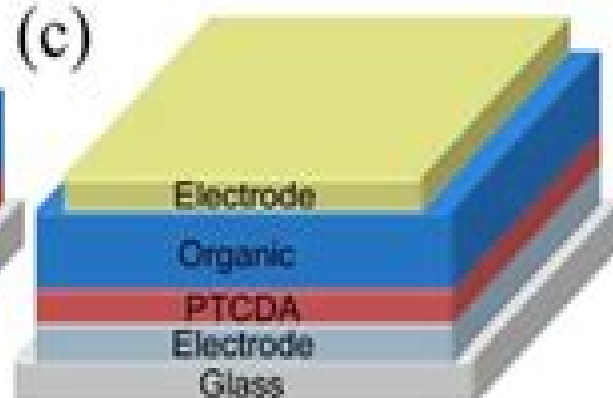


MePTC

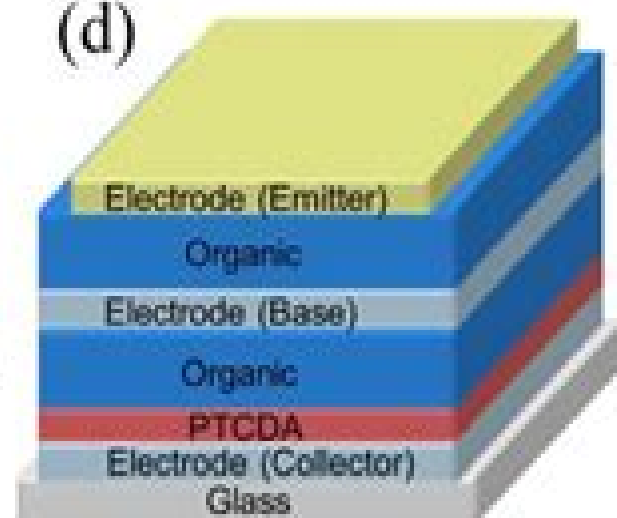
(b)



(c)



(d)



Organic Semiconductors Part B

H. B. Senin, N. H. Idris



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Applications A. Graja, B.R. Bulka, F. Kajzar, 2012-12-06 A presentation and discussion of the most recent advances in the field by the world's leading experts. Topics dealt with include new organic metals with quasi two dimensional structure, new organic superconductors, conducting and magnetic hybrid organic inorganic materials and highly conducting organic composites. Also reported are very interesting significant results on optically controllable gratings in liquid crystals and polymers, organic electroluminescent materials, functionalised polymers and photonics and nonlinear optics. Some new fascinating fullerene derivatives and organic and metallic clusters are also presented. The chemical design of logic gates and molecular logic machines and the analysis of the roles of defects in clusters are attracting great interest. The properties of semiconducting quantum wires, electronic transport through magnetic molecular nanostructure and electronic transport properties of nanostructures containing both ferromagnetic and superconductors are also presented and discussed.

Processing by Centrifugation Liya L. Regel, William R. Wilcox, 2011-06-28 This volume constitutes the proceedings of the Fourth International Workshop on Materials Processing at High Gravity held at Clarkson University May 29 to June 2 2000. There were 73 attendees from 16 countries. Since the topics extended well beyond materials processing it was felt appropriate to name this proceedings *Centrifugal Processing*. *Processing by Centrifugation* includes the traditional bench scale centrifuges as well as all rotating systems utilizing the centrifugal and Coriolis forces to provide unique performance. Centrifugation led to the formation of sticky porous Teflon membranes as well as improved polymeric solar cells. Centrifugation on large equipment improved the chemical vapor deposition of diamond films, influenced the growth and dissolution of semiconductor crystals and elucidated the influence of gravity on coagulation of colloidal Teflon. A million g centrifuge was constructed and used to study sedimentation in solids and to prepare compositionally graded materials and new phases. Rotation of a pipe about its axis allowed the casting of large diameter metal alloy pipes as well as coating the interior of pipes with a cermet utilizing self propagating high temperature synthesis. Such coatings are highly corrosion and erosion resistant. Flow on a rotating disk was shown to be useful for process intensification such as large scale manufacturing of nano particles, polymerization reactions and heat mass transfer. Several theoretical studies dealt with the influence of rotation on fluid convection on surfaces and in pipes, tubes and porous media. These have applications to integrated circuit chip manufacturing, alloy casting, oil production, crystal growth and the operation of rotating machinery.

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Bulletin of the Chemical Society of Japan Nihon Kagakkai, 1991

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Metallomesogens Jose Luis Serrano, 1996-01-18 Metallomesogens Synthesis Properties and Applications Edited by Jose Luis Serrano Research on metal containing liquid crystals is a rapidly expanding multidisciplinary field with new materials continually being synthesized and novel applications being developed Metallomesogens is the first comprehensive survey of the field introducing the reader to materials design synthesis physical properties emerging applications Carefully selected references round off this well organized compendium It is an indispensable guide for experienced researchers in coordination and organometallic chemistry as well as in liquid crystal and materials science Newcomers and graduate students will also benefit from this didactically sound introduction to the field

Solid State Science and Technology H. B. Senin, N. H. Idris, 2007-05-22 This book contains papers presented at the Second International Conference on Solid State Science and Technology 2006 ICSSST 2006 a three day conference on solid state science and technology The conference provides a forum for the exchange of knowledge in a highly interdisciplinary field and brings together scientists working in academic and applied research in the field of solid state science and technology

Molecular Crystals and Liquid Crystals ,1989 *Optical Materials Technology for Energy Efficiency and Solar Energy Conversion* ,1992 **Current Issues of Physics in Malaysia** H. B. Senin,2008-06-04 The two volumes of this work provide the first comprehensive interpretation of the philosophy of Marcus Aurelius The central thesis is that a particular combination of form and content is characteristic of Marcus Aurelius s Meditations He wrote the earliest extant self dialogue whereby the composition of the mainly contemplative text can at the same time be a kind of Stoic philosophical practice Volume 1 analyses general characteristics of form and their philosophical significance Volume 2 analyses the themes terms and arguments in analogy to the Stoic division of the philosophy Science in China ,2008 **The International Who's Who, 1989-90** ,1989 Luminescent Materials and their Applications Hardev Singh Virk,2015-01-29 Special topic volume with invited peer reviewed papers only **Database** ,1994 **Indian Journal of Pure & Applied Physics** ,2001
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