

Charge Transport In Disordered Solids With Applications In Electronics

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In the realm of organic solids the analogous class of materials are polymeric solids since large area polymeric films can be readily made from solution. ... Mort J. (1974) Charge Injection and Transport in Disordered Organic Solids. In: Masuda K., Silver M. (eds) Energy and Charge Transfer in Organic Semiconductors. Springer, Boston, MA. https://doi.org/10.1007/978-1-4614-0000-0_10

The field of charge conduction in disordered materials is a rapidly evolving area owing to current and potential applications of these materials in various electronic devices This text aims to cover conduction in disordered solids from fundamental physical principles and theories, through practical material development with an emphasis on applications in all areas of electronic materials.

Charge Transport in Disordered Organic Photoconductors a ...

Charge transport in disordered organic solids: A Monte Carlo simulation study on the effects of film morphology Mohan, S. Raj; Joshi, M. P.; Singh, Manoranjan P. Abstract. The influence of ordered regions (micro crystallites

and aggregates) in the other wise disordered polymer host ...

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Charge transport in disordered molecular solids J. Chem. Phys. 94, 5447 (1991); <https://doi.org/10.1063/1.461111> Charge transport Complex solids ... The results are described within the framework of the disorder transport formalism.

Charge transport in disordered solids with applications in ...

Charge Transport in Disordered Organic Solids: Refining the Bässler Equation with High-Precision Simulation Results Mariusz Wojcik,* Irmina Zawieja, and Kazuhiko Seki Cite This: J. Phys. Chem. C 2020, 124, 17879-17888 Read Online ACCESS Metrics & More Article Recommendations *s? Supporting Information

Charge Injection and Transport in Disordered Organic Solids

Charge Transport In Disordered Solids

Charge transport in disordered organic solids: A Monte ...

Many characteristics of charge transport in disordered materials differ markedly from those in perfect crystalline systems. The term disordered materials usually refers to noncrystalline solid materials without perfect order in the spatial arrangement of atoms. One should distinguish between disordered materials with ionic conduction and those with electronic conduction.

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Charge Transport in Disordered Solids with Applications in Electronics. Sergei Baranovski. Wiley, Sep 22, 2006 - Technology & Engineering - 498 pages. 0 Reviews. The field of charge conduction in disordered materials is a rapidly evolving area owing to current and potential applications of these materials in various electronic devices .

Charge Transport in Disordered Organic Solids: Refining ...

This paper presents a theoretical and computational study of charge-carrier transport in organic solids in the presence of Gaussian energy disorder. A simulation methodology is developed to calculate the equilibrium low-field charge-carrier mobility with high precision irrespective of the magnitude of disorder. Using the simulation results obtained for several lattice models, we give accurate ...

Charge Transport in Disordered Solids with Applications in ...

Mariusz Wojcik, Irmina Zawieja, Kazuhiko Seki, Charge Transport in Disordered Organic Solids: Refining the Bässler Equation with High-Precision Simulation Results, The Journal of Physical Chemistry C, 10.1021/acs.jpcc.0c03064, (2020). *Charge Transport in Disordered Solids with Applications in ...* Charge transport via delocalized states in disordered materials / Igor Zvyagin --Description of charge transport in amorphous semiconductors / Sergei Baranovski, Oleg Rubel --Hydrogenated amorphous silicon : material properties and device applications / Walther Fuhs --Applications of disordered semiconductors in modern electronics : selected examples / Safa Kasap, John Rowlands, Kenkichi ...

Charge transport in disordered solids with applications in ...

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Theory. Crystalline solids and molecular solids are two opposite extreme cases of materials that exhibit substantially different transport mechanisms. While in atomic solids transport is intra-molecular, also known as band transport, in molecular solids the transport is inter-molecular, also known as hopping transport. The two different mechanisms result in different charge mobilities.

[Charge transport mechanisms - Wikipedia](#)

This book has been written to meet the growing interest of researchers in charge-transport properties of disordered solids, that is, materials without a long-range order in the spatial distribution of atoms. Disordered systems are very useful for various applications, particularly in low-cost large-area devices.

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