

Silicon Containing Dendritic Polymers By Petar R Dvornic



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Silicon dioxide, also known as silica, is an oxide of silicon with the chemical formula SiO_2 , most commonly found in nature as quartz and in various living organisms. In many parts of the world, silica is the major constituent of sand. Silica is one of the most complex and most abundant families of materials, existing as a compound of several minerals and as synthetic product.

Silicon dioxide - Wikipedia

Among all potential lithium-ion battery (LIB) anodes, silicon (Si) is one of the most promising candidates to replace graphite due to following reasons: (1) Si possesses the highest gravimetric capacity (4200 mA h g⁻¹, lithiated to Li_{4.4}Si) and volumetric capacity (9786 mA h cm⁻³, calculated based on the initial volume of Si) other than lithium metal; (2) Si exhibits an appropriate discharge

...

Silicon based lithium-ion battery anodes: A chronicle ...

Aluminium hydroxide, $\text{Al}(\text{OH})_3$, is found in nature as the mineral gibbsite (also known as hydrargillite) and its three much rarer polymorphs: bayerite, doyleite, and nordstrandite. Aluminium hydroxide is amphoteric in nature, i.e., it has both basic and acidic properties. Closely related are aluminium oxide hydroxide, $\text{AlO}(\text{OH})$, and aluminium oxide or alumina (Al_2O_3), the latter of which is ...

Aluminium hydroxide - Wikipedia

Tailoring the polymer micro-structure or its molecular design and engineering is the most successful method to enhance the membrane morphology towards a desirable separation performance [3,14,31]. The most important method to improve PI membrane properties is the change in chemical structure of diamine and dianhydride, the two basic constituents of PIs, by introducing non-coplanar structures ...

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Lithium-ion batteries have had a profound impact on our daily life, but inherent limitations make it difficult for Li-ion chemistries to meet the growing demands for portable electronics, electric ...

Reviving the lithium metal anode for high-energy batteries ...

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87. Yuan Chen, Baofang Li, Kun Cao, Bo-Geng Li*, “Phase inversion during bulk polymerization of N-phenyl maleimide/styrene in presence of polybutadiene (II) Effects of operation conditions and recipes on occurrence of phase inversion and structure of rubber phase”, Journal of Chemical Industry and Engineering (China), 2000, 51(4): 506-511

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Paper. 80. Quantitative Assessment on the Importance of Purity on the Properties of Single Wall Carbon Nanotubes Naoyuki Matsumoto, Guohai Chen, Motoo Yumura, Don Futaba, and Kenji Hata Nanoscale, 7, 5126-5133 (2015)

Don N. Futaba - nanocarbon.jp

Advanced Sensor Systems and Applications VIII Beijing, China Advanced Sensor Systems and Applications VIII SPIE , (2018).9781510622401 9781510622418 Pengfei Qi, Lie Lin, Weiwei Liu, Rui Huang, Qingheng Zhang, Sicong Zhao, Haolin Tian and Shuai Li Image fiber-based miniature multi-functional suspended solid sensor, (2018).

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