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MaxEmil changes the LED lens market

Founded in 1996, MaxEmil Photonics Corp. started as an optical design company, offering the optical system designs and consulting services. In order to service our customer from design to manufacturing, we set up a factory to produce polymer optics in the year of 2000.

We are proud of assisting our customers in developing novel and state-of-the-art solutions to optical challenges. We have extensive experience in the design and manufacturing of optical products, such as LED lens, camera zoom lenses, optical pickup head, scanner, video lens and digital data projector. It is our pleasure to establish the partnerships with customers, and work with them on the stages of : Idea, engineering, prototyping, tooling, trial runs and mass production.

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Fig. Carl Zeiss 3-D measuring machine



Testweezer

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Feature

Delicate Testing Testweezer (DT-10) for easy and quick testing mechanical contact of micro-electronic components such as switch, fuse, PCB circuit. By connecting with multi-meter with special connector cable. Testing Testweezer can test resistor value. Adjustable electrical current to another holder for lighting up all kinds of LED. Very useful for engineers and labors persons for instant check and display.

Test LED light. Fuse. Resistor. Switches PCB circuit electrical contact test. etc.



Golden Probe

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Synthesis Of Cathode Materials Utilizing A Green Soft Chemical Ebook {Via This website, you'll be able to profit a great deal as it separates books in various types, and you'll not only download the books you wish, but in addition come across other similar types.

Why do we use it?

Synthesis Of Cathode Materials Utilizing A Green Soft Chemical Ebook Within an alternate 2018, it's been almost 45 decades since the UK as well as United states of america went to war, along with the nations remain bitter enemies. So when two People in america are framed for an assault and fulfill younger British law enforcement officer Luke Dazzling, there's outrage every time a friendship forms involving them.

Where does it come from?

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1. Development of a Green Soft Chemical Method for the

The **Green Soft Chemical** method (MADHAMS) is a useful alternative solution-combustion method for the **synthesis of** highly pure, fine-sized, spherical & cubic **cathode** powders. With the global demand pushing industrial applications toward **green** chemistry, we developed this technique with environmental friendly solvents.

2. Review on Synthesis Characterizations and

Journal of **Material Science & Engineering Journal of Material Sciences & Engineering** ISSN: 21-22 © 2018 Synthesis, Characterizations, and Electrochemical Properties of **Cathode Materials** for Lithium Ion Batteries

3. Review on Synthesis Characterizations and

Citation: Bensalah N, Dawood H (2016) Review on **Synthesis**, Characterizations, and Electrochemical Properties of **Cathode Materials** for Lithium Ion Batteries. *J Material Sci Eng* 5: 258. doi: 10.4172 ...

4. An overview of cathode materials for microbial

The applicability of microbial electrosynthesis (MES) for **chemical synthesis** from carbon dioxide (CO₂) requires improved production and energetic efficiencies. Microbial catalysts, electrode **materials**, and reactor design are the key components which influence the functioning of such processes. In particular, International Symposium on **Green Chemistry** 2017

5. Greener synthesis of chemical compounds and materials

For the organic **synthesis**, where hazardous solvents are mostly used, the 12 rules of **green** chemistry can be successfully applied [4,12]: maximal atom economy (avoiding by-products and wastes, in particular by solvent-less techniques, i.e. dry media), safe and non-hazardous **chemical** routes without harmful **chemicals**, use of renewable precursors ...

6. Synthesis and Characterization of La_{0.8}Sr_{0.2}MnO₃

sol-gel and **soft-chemical** methods without using chelating agents are shown in . Figures 3. and . 4. The total weight losses are 3.43 mg and 7.02 mg for the sol-gel and **soft-chemical** method **materials** from room temperature to 1300°C in three steps. The first weight losses are 0.96 mg and 1.37 mg, they can be attributed to evaporation of water.

7. Lithium Batteries and Cathode Materials Chemical Reviews

Synthesis and Mechanism of High Structural Stability of Nickel-Rich **Cathode Materials** by Adjusting Li-Excess. *ACS Applied Materials & Interfaces* 2020, 12 (36) , 40393-40403.

8. Green Synthesis

Studies on **green synthesis** toward newer **materials** have been conducted with a variety of biological **materials** together with bacteria, fungi, and plant extracts. Mostly, the phytochemicals that are available in biological systems are responsible for the formation of metal/metal-oxide nanostructured **materials**.

9. Hydrothermal Syntheses of Layered Lithium Nickel Manganese

A series of mixed layered Ni(OH)₂ manganese oxides with Ni/Mn molar ratios up to near 1 were prepared by using a novel exfoliation-restacking hydrothermal method and a hydrothermal intercalation method. A series of lithium nickel manganese oxides with hexagonal layered structure (space group R $\bar{3}m$) can be obtained by hydrothermal treatment of the mixed layered Ni(OH)₂ manganese oxides in ...

10. Novel Soft Chemical Synthesis Methods of Ceramic Materials

We report novel **soft chemical synthesis** method, solid hydrate thermal reaction (SHR) method as a new **soft** chemistry. This method is very simple and can synthesize the ceramic **materials** just by storing the mixture of raw **materials** added a small amount of water in a reactor at low temperature below 373 K. For example, nanosize YVO₄ (under 100 nm in diameter) was obtained using the SHR method.

11. Wired Porous Cathode Materials A Novel Concept for

To increase the power density of battery **materials**, without significantly affecting their main advantage of a high energy density, novel **material** architectures need to be developed. Using the example of LiFePO₄, we demonstrate a simple, sol-gel-based route that leads to large (up to 20 μ m) primary LiFePO₄ particles, each of which contains hierarchically organized pores in the meso and macro ...

12. "Soft on rigid" nanohybrid as the self

Herein, a unique "soft on rigid" composite consist of oxygen-deficient and Co cluster-decorated TiO₂ nanofibers with carbon nanofibers (CNF), embedding numerous Co nanoparticles (denoted as "Co-TiO_{2-x}/CNF") is developed as a high-performance self-supporting multifunctional **cathode** electrocatalyst.

13. Cathode Materials for LIB Synthesis and Materials

The performance of the rechargeable battery is directly related to the **materials** employed. Intercalation-type **cathode material** exhibits a higher capability, and LiCoO₂ is widely used in this **cathode**. Considering the effect on battery performance, **material** selection for **cathode** construction is a critical component for battery technology ...

14. Synthesis Characterization and Electrochemical

in carbon. We used a commercial sucrose source to do the carbon coating of the **cathode**. **Synthesis of the cathode material** $\text{Li}_2\text{Fe}_x\text{Mn}_{1-x}\text{SiO}_4$ was done with a sol-gel process developed in our laboratory. **Cathode** samples of $x=1, 0.7, 0.5, 0.3$ and 0 were all created for the purpose of optimizing the **material**.

15. Facile Controlled Synthesis of MnO_2 Nanostructures of

In this paper, MnO_2 nanomaterials of different crystallographic types and crystal morphologies have been selectively synthesized via a facile hydrothermal route and electrochemically investigated as the **cathode** active **materials** of primary and rechargeable batteries. $\hat{\text{P}}^2\text{-MnO}_2$ nano/microstructures, including one-dimensional (1-D) nanowires, nanorods, and nanoneedles, as well as 2-D hexagramlike ...

16. Green Sustainable Process for Chemical and Environmental

Green Sustainable Process for **Chemical** and Environmental Engineering and Science: Ionic Liquids as **Green** Solvents discusses the application of ionic liquids as environment-friendly solvents in the extraction, separation and purification of organic and inorganic compounds, as reaction media in biochemical and **chemical** reactions and catalysis, and in **green** organic and drug syntheses.

17. Atomistic Simulation Software Materials Modeling

Simulate Li-ion diffusion in **cathode materials** using the multi-model computational approach with an applied electric field. Obtain Li-ion diffusion paths and rates using combinations of various techniques such as the nudged elastic band (NEB), the harmonic transition state theory (HTST), adaptive kinetic Monte Carlo (AKMC), and time-stamped ...

18. Soft Chemistry Routes

Soft Chemistry Routes. C.N.R. Rao. ... It is a wet **chemical** method and a multistep process involving both **chemical** and physical processes such as hydrolysis, polymerization, drying and densification. ... Electrochemical methods have been employed to advantage for the **synthesis of** many solid **materials**. Typical **materials** prepared in this manner ...

19. synthesis of nanomaterials

synthesis of nanomaterials 1. $\hat{\text{A}}\hat{\text{C}}\hat{\text{C}}$ Different Methods (Top-down and Bottom up approaches) $\hat{\text{A}}\hat{\text{C}}\hat{\text{C}}$ Growth Kinetics (Cluster Formation followed by Nucleation

and Growth) **Synthesis of Nanomaterials** Design and preparation of nanoparticles with high functionality i.e., to fabricate nanomaterials which have the suitable properties for applications The fabrication of nanomaterials of tailored properties ...

20. Synthesis of Li

4 as an active **material** in **cathode materials** in Li-ion batteries has shown outstanding advantages compare to other **cathode materials** such as low cost, low toxicity and environmental compatibility, good thermal stability, high theoretical specific capacity of 170 mAh/g and operating reversibility at 3.4V.

21. Structure and Electrochemistry of Copper Fluoride

Near-theoretical utilization of high-energy-density CuF₂ positive electrode **materials** for lithium batteries was enabled through the use of nanocomposites consisting of 20-30 nm domains of CuF₂ within a mixed ionic + electronic conducting matrix of a metal oxide. Small but significant crystallographic changes to the core crystal of the CuF₂ were found to occur in all oxide-based matrices ...

22. Cathode Materials for Lithium Sulfur Batteries Design

With the rapid development of electronic devices, portable electronics, and electric vehicles, the energy density and cycle life of LIBs are insufficient for the demands. Based on the reaction mechanisms, lithium-sulfur (Li-S) batteries have a high specific capacity of 1672 mAh/g, with a theoretical energy density up to 2600 Wh/Kg. However, the sulfur cannot serve as **cathode** individually ...

23. A novel morphology

In summary, by introducing and **utilizing** the self-assembly behaviors of low molecular weight anionic surfactants, SDS and SDBS, into the **synthesis** process, a novel 3D porous skeleton-supported core and hierarchical structure of Li_{1.2} Ni_{0.13} Co_{0.13} Mn_{0.54} O₂ **cathode material** is successfully synthesized.

24. International Journal of Biotechnology and Bioengineering

Citation: Sangeeta Verma et al. 2018, **Green Chemistry: A New Approach to The Synthesis, Processing and Application of Chemical Substances**. Int J Biotech Bioeng. 4:4,89-95 91 Role of **green** chemistry in **synthesis of drugs and chemicals** to make ecofriendly Microwave **synthesis: Microwave assisted organic synthesis** has revolutionized organic **synthesis**.

25. Advanced Thin Film Cathodes for Lithium Ion Batteries

Binder-free thin film **cathodes** have become a critical basis for advanced high-performance lithium ion batteries for lightweight device applications such as all-solid-state batteries, portable electronics, and flexible electronics. However, these thin film electrodes generally require modifications to improve the electrochemical performance.

26. Chemical Engineering Science Vol 217 18 May 2020

Synthesis of carbon nanotubes with controllable diameter by **chemical** vapor deposition of methane using TiO_3 core-shell nanocomposites
Shan-Luo Wu, Chun-Ming Chen, Jia-Hong Kuo, Ming-Yen Wey

27. Lithium Sulfide as Cathode Materials for Lithium

Compared with commonly used graphene, a multilayered Ti_3C_2 **material** fabricated by Liang et al. exhibited better **chemical** absorption of polysulfides as the Li_2S host, and the activation barrier of the Ti_3C_2 - Li_2S composite **cathode** decreased to 2.85 V, a 0.6 V potential lower than that of the graphene/ Li_2S composite **cathode**.

28. Advanced synthesis of materials for intermediate

Basu et al. have investigated the **synthesis of** $\text{LaNi}_{0.6}\text{Fe}_{0.4}\text{O}_3$ perovskite-type **cathode material** using two combustion synthetic routes using CA and urea as the fuels. As shown in Fig. 3, when CA was used as the fuel, the single-phase $\text{LaNi}_{0.6}\text{Fe}_{0.4}\text{O}_3$ was obtained immediately after the combustion process.

29. Green Chemistry

Green Chemistry: An Inclusive Approach provides a broad overview of **green** chemistry for researchers from either an environmental science or chemistry background, starting at a more elementary level, incorporating more advanced concepts, and including more chemistry as the book progresses. Every chapter includes recent, state-of-the-art references, in particular, review articles, to introduce ...

30.

References:

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