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The power system is going through a change in its very foundations. More and more power converters are being integrated into the electric grid to interface renewable energy resources and in high-voltage direct-current (HVDC) transmission systems. This article presents a discussion on the stability of power systems when HVDC transmission systems based on modular multilevel converters (MMC) are ...

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Advanced Optical Materials: Early View

The spinning solution was magnetically stirred for 6 h in a heated oil bath at 50 . Afterwards, the homogeneous solution was loaded into a 10 mL plastic syringe with a 20 stainless steel nozzle and a flow rate of 12 μ L min⁻¹. The electrospinning process was carried out with an applied voltage of 18 kV, a distance of 18 cm between the ...

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Symposia: Wednesday, 8 December | IEEE Global ...

A linear hydrocarbon chain containing a diene and a dienophile is folded and transformed into a decalin scaffold by intramolecular [4+2] cycloaddition. The substrates are folded oppositely but bind in the same orientation to the pockets of a pair of Diels – Alderases to yield enantiomeric decalin skeletons, as reported by Naoki Kato, Shunji Takahashi, Shingo Nagano, and co-workers in their ...

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Intelligence Systems, Volume 6, Issue 1, pp.96-114 2013. [21] Nayak, S.C. : “ Index prediction with neuro -genetic hybrid network: A comparative analysis of performance ” , IEEE

Book

This work reports 2D anisotropic rare earth (RE) materials for information transmission via the programmable polarization-dependent photoluminescence (PL). 2D anisotropic RE materials like Eu_2O_3 flakes have been synthesized. The opposite two modes of polarization-dependent PL have been first extended to information encryption, for example, the encryption of images.

Han Khalil Nonlinear Systems Solution

This paper presents a nonlinear equivalent-input-disturbance (NEID) approach to rejecting an unknown exogenous disturbance in a nonlinear system. An NEID compensator has two parts: a conventional equivalent-input-disturbance estimator and a nonlinear state feedback term. This design ensures that only the exogenous disturbance is rejected and the useful nonlinearity of the system is retained ...

Angewandte Chemie International Edition: Vol 60, No 41

Nonlinear Functional Output Regression: A Dictionary Approach Dimitri Bouche, Marianne Clausel, François Roueff, Florence d'Alché-Buc ... Khalil Elkhail, Ali Hasan, Jie Ding, Sina Farsiu, Vahid Tarokh; ... Online Robust Control of Nonlinear Systems with Large Uncertainty Dimitar M Ho, Hoang M. Le, John Doyle, Yisong Yue ...

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Briefly, 0.2% w/v chitosan solution in 1% v/v glacial acetic acid was prepared and adjusted to the pH value of 5 by adding, drop by drop, 1N NaOH. On the other hand, 0.2% w/v dextran solution in distilled water was prepared. Dextran solution was added slowly drop by drop into the chitosan solution at a 1:2 ratio under magnetic stirring at 700 ...

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Assuming feasibility, the angles are found using the Levenberg-Marquardt (LM) algorithm. We use the LM implementation in the nonlinear optimization module of Eigen library, which runs fast enough to be used online. Although the LM is a local method, it converges to the correct solution using a neutral leg configuration as an initial guess.

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