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Research Article

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The QRS complex detection using morphological filtering

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Author(s): Taouli SA* and Bereksi-Reguig F

This article presents a method of QRS complex detection and more precisely the R wave in an electrocardiogram (ECG) based on the mathematics morphology which calls upon the four operators' morphology, erosion, dilation, opening and closing. These operators are combined with a window relocated which is called the structuring element. Morphological filtering uses the st ...

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Review Article

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The new paradigm in thermodynamic formulation of electrolytic systems – A review

Published On: August 12, 2019 | Pages: 019 - 060

Author(s): Anna M Michaowska-Kaczmarczyk and Tadeusz Michaowski*

The general property of electrolytic systems in aqueous media is presented. The linear combination $f_{12} = 2f(O) - f(H)$ of elemental balances: $f_1 = f(H)$ for $Y_1 = H$ and $f_2 = f(O)$ for $Y_2 = O$, is put in context with charge balance ($f_0 = ChB$) and other elemental and/or core balances $f_k = f(Y_k)$ ($k=3, \dots, K$) related to the system in question. It is stated that f_{12} is (a) linearl ...

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3D Bioprinting: An attractive alternative to traditional organ transplantation

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Author(s): Darakhshanda Iram, Rafi a Riaz and Rana Khalid Iqbal*

3D bioprinting is computer-aided technology used to generate 3D models of organs. Employing this technique, organ and tissues are generated according to the patient body. 3D structures are formed by the deposition of bioink. ...

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