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Soft Computing: Theories and Applications

Proceedings of SoCTA 2017

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Soft Computing: Theories and Applications

Proceedings of SoCTA 2017

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


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Network Modeling Analysis in Health Informatics and Bioinformatics



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Original Article | Published: 15 November 2018

Computational study of curcumin analogues by targeting DNA topoisomerase II: a structure-based drug designing approach

Rajesh Kumar Kesharwani , Dev Bukhsh Singh, Durg Vijay Singh & Krishna Misra

Network Modeling Analysis in Health Informatics and Bioinformatics 7, Article number: 15 (2018) | [Cite this article](#)

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Abstract

Curcumin, a golden yellow pigment present in the spice turmeric, has pleiotropic chemopreventive and therapeutic active compound against many diseases including cancer. It has been reported that curcumin acts as a topoisomerase II inhibitor and it was found that even concentration of 50 μM of curcumin in vitro is active in a similar fashion as etoposide (antineoplastic agent). Topoisomerases (type I and type II) are enzymes that regulate the overwinding or underwinding of DNA by cutting the phosphate bond of one or two strands of DNA, respectively. Topoisomerase II was selected as target, since it affects both strands of

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Electron Paramagnetic Resonance Studies of Vanadyl Doped $K_{1.98}(NH_4)_{0.02}(C_2O_4)_2 \cdot H_2O$ System

[Navin Pant](#), [A. L. Verma](#), [S. D. Pandey](#) & [Ram Kripal](#) [National Academy Science Letters](#) **41**, 255–258 (2018) | [Cite this article](#)**100** Accesses | **2** Citations | [Metrics](#)

Abstract

The vanadyl doped $K_{1.98}(NH_4)_{0.02}(C_2O_4)_2 \cdot H_2O$ system is studied at room temperature using Electron Paramagnetic Resonance (EPR) technique. Two distinct interstitial sites for vanadyl ion are found in the potassium oxalate monohydrate crystal grown with 1% ammonium oxalate monohydrate salt. This is confirmed from angular variation of EPR spectra with static

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Polymer Bulletin



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Review | [Published: 01 August 2017](#)

Grafted cellulose: a bio-based polymer for durable applications

[Rajesh Kumar](#) , [Rajeev Kr. Sharma](#)  & [Anirudh P. Singh](#)

[Polymer Bulletin](#) **75**, 2213–2242 (2018) | [Cite this article](#)

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Abstract

Grafting is one of the best method for the modification of physicochemical properties of the cellulose. The –OH groups present at C₂, C₃, and C₆ atoms of each β-D-glucopyranose units of cellulose chains are the most susceptible active sites for the grafting of many monomer units or polymers for the formation of a variety of cellulose-based graft copolymers with advanced

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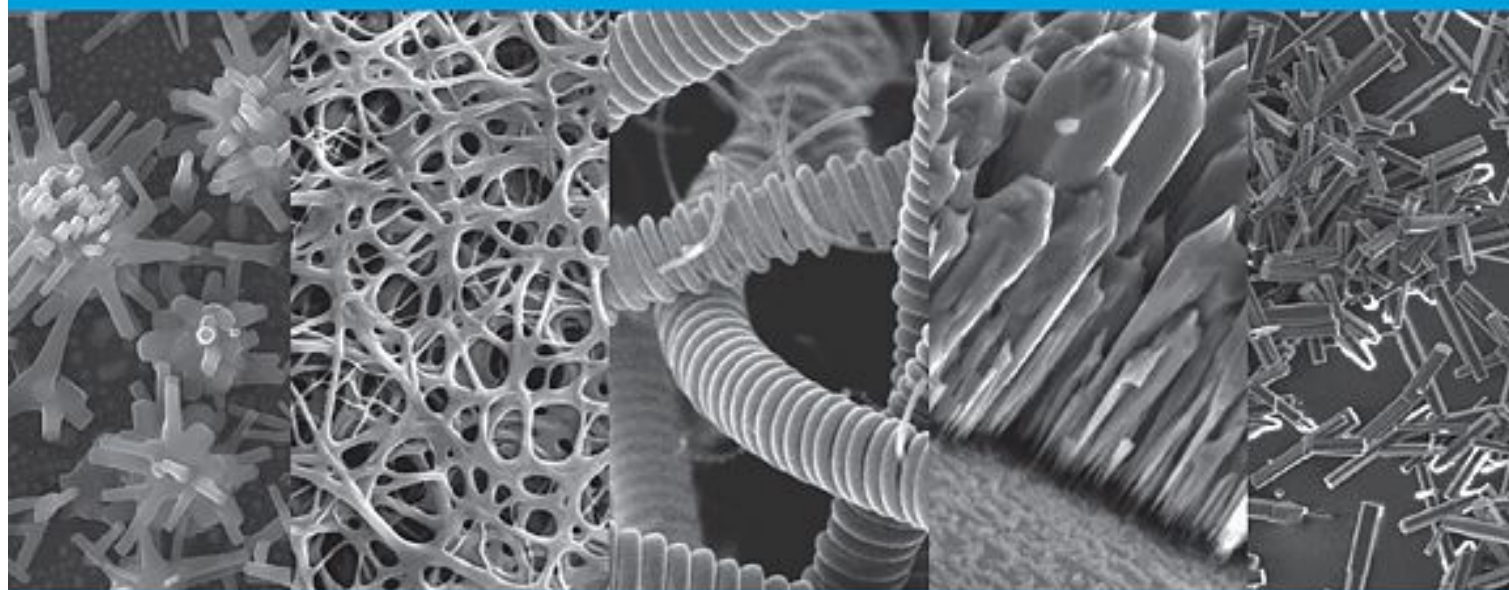
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Improvement of orientational order and display parameters of liquid crystalline material dispersed with single-wall carbon nanotubes

Deepa Singh^a, **Upendra Bahadur Singh^a**, Manoj Bhushan Pandey^b, Roman Dabrowski^c, Ravindra Dhar^a  

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<https://doi.org/10.1016/j.matlet.2017.12.099>

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Abstract

Composites were prepared by inserting Single-Walled Carbon Nanotubes (SWCNTs) in the Nematic Liquid Crystal (NLC) to fasten the reorientation dynamics of the system under the electric field. Dispersion of SWCNTs in NLC medium enhanced the orientational order and consequently the display parameters of composite systems improved. Various display parameters such as orientational order, dielectric anisotropy, threshold voltage and splay elastic constant were explored for pure and composite systems.

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