

SERVICE: PROOFREADING

WHO IS IT FOR: FOR ESL AUTHORS PROFICIENT IN ENGLISH WRITING

WHAT WE CHECK: SPELLING, PUNCTUATION, BASIC GRAMMAR

Circular dichroism (CD) measurements showed that peptides with the mutation site near the C-terminus (C-terminal mutations) ~~can~~ formed a more stable collagen triple helix than those with the mutation site near the N-terminus (N-terminal mutations), which is consistent with the known *in vivo* folding mechanism of collagen, from the C to the N-terminus *in vivo*. Thermodynamic analysis ~~indicates~~ showed that the destabilization in C-terminal mutations is due to entropic effects, while that in N-terminal mutations is mainly from enthalpic effects. The destabilization order ~~is was found to be~~ L-Ala < Sar  $\approx$   $\beta$ -Ala < D-Ala ~~at in~~ both the N- and C-terminal mutations, indicating that ~~a-residue~~s with normal backbone dihedral angles ~~has a less~~ are less destabilizing ~~effect~~ at ~~these either two~~ positions. In addition, Sar was shown to be a better substituent than the other ~~three~~ 3 amino acids at the central site of collagen-like peptides. Kinetic studies further demonstrated that steric strains imposed by the side chains of the amino acids ~~might may~~ be the most critical factor ~~in~~ affecting the folding rate of collagen. Our data provide valuable insights into how backbone conformation, side chains, and inter-strand hydrogen bonds affect the collagen triple helix at different positions.

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SERVICE: COPYEDITING

WHO IS IT FOR: FOR ESL AUTHORS WITH DEVELOPING ENGLISH WRITING SKILLS

WHAT WE CHECK: SPELLING, PUNCTUATION, BASIC GRAMMAR + SYNTAX,  
TRANSITION, REPETITION

The development and commercialization of flexible display technologies have drawn a considerable amount of attention recently. Conventional flexible display technologies utilize semiconducting metal oxides, such as indium tin oxide (ITO) [1-6] or ZnO [7-8] as transparent electrodes. The extensive use of ITO films, in particular, are extensively used because of its basicity due to their high electrical conductivity and transparency within visible and near infrared ranges. However, these films often require high processing temperatures and are very brittle, making them poor candidates for thermally sensitive flexible substrates. Carbon nanotubes (CNTs), on the other hand, carbon nanotubes (CNTs) possess nanoscale diameters, high aspect ratios, and high conductivity [9-10], making them suitable which could be considered as a candidate for application to transparent conductive systems.

Most However, most of the current preparation methods to prepare CNT-based transparent conductive films have been tested with single-walled carbon nanotubes (SWCNTs) [11-27] rather than instead of using multiwalled (MWCNTs) [28-30] carbon nanotubes. The (MWCNTs) [28-30]. The main reason is that the light absorption by MWCNTs is higher than that by SWCNTs when the same amount of CNTs is used to cover the film, making film. Although this renders the preparation more challenging. Nevertheless, of transparent conductive films using MWCNTs more challenging, MWCNTs have a number of some advantages over compared with SWCNTs, such as lower costs and higher chemical resistance.

From the an industrial perspective, wet chemistry approaches such as dip coating [11,14,25,29], spray coating [13,15,23], roll-to-roll printing [16,19,21-22], and electrophoretic deposition [18,26,27,31] are the most desirable methods for the large-scale integration of MWCNTs-based transparent polymeric nanocomposites. In order to fabricate transparent conducting materials, MWCNTs should be well separated from each other to obtain an ideal network and be maintained dispersion should be maintained in the final products.

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**Comment [Author2]:** Missing reference.

In this work, transparent conductive thin films were fabricated on conventional plastics substrates ~~by~~ using MWCNTs grafted on ~~the methyl methacrylate/acrylic acid~~ (MMA/AA) copolymers. ~~The MWCNTs coating is was~~ enhanced ~~using by~~ a polymer binder layer, which ~~improved the will maximize the~~ optoelectronic performance, ~~and will increase~~ adhesion, abrasion resistance, and flexibility. ~~The In situ polymerization of methyl methacrylate (MMA)~~ monomer containing MWCNTs ~~was also polymerized in situ by with~~ a radical initiator [32-36], ~~resulting in results in~~ homogeneous and fine dispersion of ~~the~~ MWCNTs in the polymer matrix or solution. ~~Further, e~~ Emulsion polymerization ~~is also has been proved to be a~~ promising method to synthesize polymer-encapsulated or polymer-grafted inorganic particles.

Comment [Author3]: Please check.

Comment [Author4]: Is a reference required?

Comment [Author5]: Missing reference

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## SERVICE: SUBSTANTIVE / STRUCTURAL EDITING

WHO IS IT FOR: FOR ESL AUTHORS WITH BEGINNER ENGLISH WRITING SKILLS

WHAT WE CHECK: SPELLING, PUNCTUATION, BASIC GRAMMAR + SYNTAX, TRANSITION, REPETITION + **ACADEMIC STYLE, PARAGRAPH FLOW, PROGRESSION OF ARGUMENT**

### 1. Research Target

This ~~purpose of this study~~ ~~'s purpose is aware to investigate~~ the effectiveness of K-league ~~F~~ football clubs' sponsorship. ~~It tries to research the people~~ ~~By interviewing~~ ~~local residents in~~ ~~each three~~ ~~local citizens areas~~ (Seoul, Inchen and Deagu), ~~how the study evaluates whether they~~ ~~people can~~ recognize the ~~image of~~ companies ~~image which are that~~ act as sponsors for their local football ~~sponsors clubs, when on the basis of their~~ ~~they are exposed~~ ~~exposure from to the~~ football sponsorship advertisements. The survey ~~has done was carried out~~ for 11 days from ~~7. Dec. 7 to 18~~ ~~December 2009 to 18~~ in Seoul, Inchen, and Deagu. ~~A survey questionnaire was and got the~~ ~~answer from distributed to~~ randomly ~~people~~ selected individuals. This research used the survey questionnaire to ~~know assess~~ how local football sponsorship impacts ~~their brand image, s~~ through ~~The questionnaire included~~ several questions ~~that are related with on~~ 'demographic characteristic's, 'preferences', areas of concern' and 'frequency'. ~~It dose 'Self administration method'~~ ~~The questionnaire was self-administered.~~ ~~A total~~ ~~The total number of answer is~~ 170 completed questionnaires were received. ~~but~~ We rejected 6 surveys because they were ~~invalid~~ ~~count some answer out because there are some wrong answers and it was not completed.~~ Thus, ~~164 completed surveys were used in~~ this study ~~is researched with 164 cases.~~ The ~~below~~ table ~~below~~ illustrates the demographic characteristics of ~~people who answered the survey~~ ~~questionnaire respondents.~~ The ~~survey method questionnaire is used~~ ~~mixed a mix which of~~ ~~opened open~~ and closed questions, ~~and which were~~ evaluated ~~on by~~ 7-point ~~rating scaling~~ ~~method~~ ~~scale.~~