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### **A Review: Preparation of titanium based catalyst for photocatalytic process**

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Chemical Engineering, Maulana Azad National Institute of Technology, Bhopal-462 051,  
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*Keywords: TiO<sub>2</sub>; Nano-particles; photocatalysis; method; preparation.*

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2.

### **On 0-special mappings in several groupoids**

Hee Sik Kim, J. Neggers, Keum Sook So

*Department of Mathematics, Pohang University of Science and Technology, Pohang, South Korea*

*Keywords: d-domain, d-algebra, groupoid, 0-special, strong, phi-class.*

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Jamal I. Daoud

*Department of Mathematics, University of Jordan, Amman, Jordan*

*Keywords: Regression, Assumption, Heterogeneity, Collinearity, Linearity, inference*

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Lars Johansson, Erik Nielsen

*Department of Business Administration, Delft University of Technology, Netherlands*

*Keywords: Islamic management, humanism*

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### **Overwintering of Ladybirds (Col.: Coccinellidae) in Yazd Province, Iran**

Yuki Tanaka, Min-Jun Park

*Institute of Applied Sciences, University of Vienna, Austria*

*Keywords: Ladybirds, overwintering, Yazd, Iran*

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### **Completeness of fuzzy normed spaces and fuzzy stability of quintic functional equations**

Choonkil Park, Ji-Hye Kim, Dong Yun Shin

*Department of Mathematics, Korea University, Seoul, South Korea*

*Keywords: fuzzy Banach space, fuzzy analysis, fuzzy variable, completeness, fixed point, Hyers-Ulam stability, quintic functional equation*

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### **Fatigue Life Prediction of Suspension $\frac{1}{2}$ s Pitman Arm Under Random Vibration Based Road Roughness**

Wei Zhang, Raj Sharma, Carlos Santos

*Faculty of Mechanical Engineering, University of Helsinki, Finland*

*Keywords: Fatigue, Random Vibrations, pitman arm, Road Roughness, PSD function.*

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### **THE SECOND HANKEL DETERMINANT FOR ALPHA CONVEX FUNCTIONS ASSOCIATED WITH THE SALAGEAN OPERATOR**

Aysegul Dogan, H.Ozlem Guney

*Department of Mathematics, Istanbul Technical University, Istanbul, Turkey*

*Keywords: Analytic function, starlike function, convex function, alpha-convex function, Hankel determinant*

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# **Transverse Vibration of Axially Moving Wire in Weaving Process of Jacquard**

Ping Wang, Xi-fang Li, Ji-huan He

*Department of Mechanical Engineering, Tsinghua University, Beijing, China*

*Keywords: Jacquard, transverse vibration, resonance, heddle wire*

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