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| <b>Study on a Kind of Rust-Transforming Technology</b><br>K. Zhang, Y.S. Song, D.H. Zhong, Z.H. Shao and L.Q. Zhou                  | 1847 |
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| <b>Research on Overconstrains of Planar Mechanisms</b><br>Z.J. Wei and S. Pang                                                                                                                     | 1869 |
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| <b>Static Performance Analysis on Combined Truss with Steel Tube and Concrete-Filled Steel Tube Based on Total Strain Crack Constitutive Model</b><br>H.Y. Lin                                     | 1884 |
| <b>Finite Element Analysis on Static Performance on Combined Truss with Rectangular Steel Tube and Concrete-Filled Steel Tube</b><br>Y.W. Du and H.Y. Lin                                          | 1889 |
| <b>Influence of Early Age Wet Curing Time, Clinker and CaO Content on the Carbonation Resistance of C40 Ordinary Concrete</b><br>Q. Ye                                                             | 1894 |
| <b>Effect of Isothermal Holding Parameters on the Solid Particles Evolution of Semisolid AZ91D Alloy Produced by SIMA</b><br>Q.Q. Zhang and Z.Y. Cao                                               | 1901 |
| <b>The Influences of TiN Content on the Properties of the <i>In Situ</i> Al<sub>2</sub>O<sub>3</sub>-TiN Composites</b><br>X.M. Feng, X.Q. Lian, M.X. Jiang and Y.N. He                            | 1906 |
| <b>The Variables Reduction for Concrete Strength Prediction Model Using a Rough Sets Method</b><br>B. Chen and X.J. Liu                                                                            | 1911 |
| <b>Relationship between Thickness of Lamellar <math>\alpha+\beta</math> Phase and Mechanical Properties of Titanium Alloy</b><br>Y.W. Sui, A.H. Liu, B.S. Li and J.J. Guo                          | 1916 |
| <b>The Effect of Aluminum Clad on the Electrochemical Properties of the Similar Weld of Friction-Stir Welding of 2524</b><br>C.B. Shen, J.Y. Zhang, J.P. Ge and F. Yan                             | 1920 |
| <b>Modeling of Pressure Drop in a 3-D Network Ceramic Diesel Particulate Filter</b><br>X.D. Liu and X.G. Bi                                                                                        | 1924 |
| <b>Distribution Character of Structural Stress for Aluminum Alloy Thick Plate</b><br>S.J. Wei and K. Liao                                                                                          | 1930 |
| <b>Prediction of the Tension Softening Curve of Dam Concrete Based on BP Neural Network</b><br>Z.G. Zhao, Z.H. Yang, Z.F. Zhao and M.M. Zhu                                                        | 1935 |
| <b>Assesment of Main Models for Predicting Debonding Load-Bearing Capacity against Intermediate Crack-Induced Debonding Failure in FRP-Strengthened RC Beams</b><br>G.B. Li, Y.G. Guo and X.Y. Sun | 1941 |

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| <b>Preparation of Terminal Phenolic Hydroxyl Triazine Dendrimer and its Combination Tanning Properties with the Aluminum Salts</b><br>X.H. Qiang, Y. Feng, H. Zhang and H.Y. Feng | 2027 |
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| <b>Study of Cellulose-Dibutyl Sebacate Copolymer Synthesis and Characterization of Crosslinked Cellulose-Dibutyl Sebacate Copolymers for Oil Absorbency</b><br>H. Mamat                                                          | 2075 |
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| <b>Enhanced Photoelectrocatalytic Degradation of Azo-Dye Pollutants Using Transparent Titania Nanotube Arrays Glass Electrode</b><br>J. Bai, B.X. Zhou, J.H. Li and W.M. Cai                                                     | 2089 |
| <b>Microstructure and Wear Behavior of Ti-Matrix Functional Gradient Layer</b><br>F.Y. Hu, A.Y. Cui, B. Hu, P.F. Fu, P.Z. Zhao and C.L. Lu                                                                                       | 2093 |
| <b>Synthesis and Characterization of New Functional Material (C<sub>6</sub>H<sub>5</sub>C<sub>N</sub>H<sub>2n</sub>NH<sub>3</sub>)<sub>2</sub>PbI<sub>4</sub>(where n=0,1,2)</b><br>L.L. Guo, X. Li and H.X. Liu                 | 2099 |
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