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Faculty: Surface Coating and Novel Technologies
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Awards

Institute Excellence Awards for academic staffs, ICST 2014

Awarded May 2015

Iran Color Council Excellence Awards for academic staffs, ICC 2014

Awarded February 2015

Institute Excellence Awards for academic staffs, ICST 2013

Awarded April 2014

Papers in Conferences

1. S Jafarifard , S Bastani , AS Gorgani , M Ganjaee ,Investigating the Effect of a Polyester-amide based Modified Hyperbranched Polymer on Curing Behavior of Low-Viscosity UVCurable Blend ,11th International Seminar on Polymer Science and Technology ,2014 10 6.

Papers in Journals

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1. AJ Kandeloo , S Bastani , S Mashayekhan. 3D Bioprinting and Natural Bioinks: Principles and Applications. Journal of Studies in Color World. ۲۰۲۱.
 2. A Sukhtesaraie , M Azadfallah , S Bastani. Adhesion improvement of water-based flexographic inks on polyethylene coated paperboard by silane adhesion promoters. Iranian Journal of Wood and Paper Science Research. ۲۰۱۸.
 3. F Anabestani , S Bastani , M Ataefard. UV-Curable Toners: Production and Film Formation in Electrophotographic Printing. Journal of Studies in Color World. ۲۰۱۶ ۶ ۲۱.
 4. E Bakhshandeh et al., High-performance water-based UV-curable soft systems with variable chain architecture for advanced coating applications, Progress in Organic Coatings, 2019 2 5.
 5. MM Irani , F Nourmohammadian , S Bastani , F Najafi, Development of diketopyrrolopyrrole fluorescent dyes with different alkyl chain length in organic film: photophysical and rheological properties, Progress in Organic Coatings, 2019 2 26.
 6. Down-conversion particles as internal UV-source assist in UV-curing systems: Physical and

- mechanical properties of UV-curable micro-composites, *Progress in Organic Coatings*, 2018 6 15.
7. Photophysical properties of novel functionalized fluorescent dyes based on diketopyrrolopyrrole and application in inkjet printing ink, *Journal of Luminescence*, 2018 3 29.
8. M Jalili , S Bastani , M Ghahari , E Mohajerani, The use of upconversion microparticles as a novel internal radiation source for fabrication of composite materials, *Polymer Composites*, 2018 2 7.
9. M Jalil , S Basatani , M Ghahari , E Mohajerani, NaLuF₄: Yb, Tm up-conversion materials: Investigation of UV emission intensity by experimental design, *Advanced Powder Technology*, 2018 1 19.
10. Network formation and thermal stability enhancement in evolutionary crosslinked PDMS elastomers with sol-gel-formed silica nanoparticles: Comparativeness between as-received and pre-hydrolyzed TEOS, *Progress in Organic Coatings*, 2017 9 18.
11. NIR induced photopolymerization of acrylate-based composite containing upconversion particles as an internal miniaturized UV sources, *Progress in Organic Coatings*, 2017 3 1.
12. et al., Manipulating the Surface Structure of Hybrid UV Curable Coatings through Photopolymerization-Induced Phase Separation: Influence of Inorganic Portion and Photoinitiator Content, *Macromolecular Chemistry and Physics*, 2017 12 29.
13. M Sarrafi , B Kaffashi , S Bastani, Investigation of cure advancement in dual-cure polyurethane-acrylate coatings over metal substrates, *Journal of Coatings Technology and Research*, 2017 12 22.
14. M Mohseni et al., Effect of scattering nanoparticles on the curing behavior and conversion gradient of UV-curable turbid systems: two-flux Kubelka-Munk approach, *Progress in Organic Coatings*, 2017 11 20.
15. S Bastani , & MK Darani, Carbon Nanotube-Based UV-Curable Nanocomposite Coatings, *Carbon Nanotubes: Current Progress of their Polymer Composites*, 2016 7 20.
16. MMR Nayinia et al., Rheological investigation of the gel time and shrinkage in hybrid organic/inorganic UV curable films, *Journal of Photopolymer Science and Technology*, 2016 6 21.
17. P Kardar , M Ebrahimi , S Bastani, UV curing behavior and mechanical properties of unpigmented and pigmented epoxy acrylate/SiO₂ nanocomposites, *Journal of Thermal Analysis and Calorimetry*, 2016-6.
18. F Mirshahi , S Bastani , MG Sari, Studying the effect of hyperbranched polymer modification on the kinetics of curing reactions and physical/mechanical properties of UV-curable coatings, *Progress in Organic Coatings*, 2016 1 1.
19. The chemo-rheological behavior of an acrylic based UV-curable inkjet ink: Effect of surface chemistry for hyperbranched polymers, *Progress in Organic Coatings*, 2016 1 1.
20. S Bastani , & P Kardar, Radiation-Curable Smart Coatings, *Industrial Applications for Intelligent Polymers and Coatings*, 2016.
21. S Soroushnia , S Bastani , MM Bozorgi , M Rostami, Surface properties and surface patterning of UV-curable coating using perfluorosilane-treated nanosilica, *Progress in Organic Coatings*, 2015 8 1.
22. MK Darani , S Bastani , M Ghahari , P Kardar, An experimental design approach for hydrothermal synthesis of NaYF₄: Yb³⁺, Tm³⁺ upconversion microcrystal: UV emission optimization, *Optical Materials*, 2015 11 1.
23. S Bastani , & M Mohseni, UV-Curable Nanocomposite Coatings and Materials, *Handbook of Nanoceramic and Nanocomposite Coatings and Materials*, 2015 1 1.
24. M Mohseni , S Bastani , A Jannesari, Effects of silane precursors on curing behavior of UV-curable hybrid coatings, *Journal of Thermal Analysis and Calorimetry*, 2015-1.
25. F Talebnia , F Nourmohammadian , S Bastani, Development of novel fluorescent offset ink based on coumarin dyes: Synthesis and properties, *Progress in Organic Coatings*, 2014 9 1.
26. F Mirshahi , S Bastani , M Ganjaee Sari, Surface Modification of Polyesteramide-Based Hyperbranched Polymer Using Acrylic Acid and Study of its Impact on the Viscosity of TMPTA, *Journal of Color Science and Technology*, 2014 12 22.
27. P Kardar , M Ebrahimi , S Bastani, Influence of temperature and light intensity on the photocuring process and kinetics parameters of a pigmented UV curable system, *Journal of Thermal Analysis and*

