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## **SCIENTIFIC PUBLICATIONS**

1. **Misbah Sultan**, Sadia Atta, Haq Nawaz Bhatti, Atif Islam, Tahir Jamil, Ismat Bibi, and Nafisa Gull. 2017. Synthesis, Characterization, and Application Studies of Polyurethane Acrylate Thermoset Coatings: Effect of Hard Segment. *Polymer-Plastics Technology and Engineering LPTE #1280736, VOL 56, ISS 0. Accepted.*
2. Ismat Bibi, Nosheen Nazar, Munawar Iqbal, Shagufta Kamal, Haq Nawaz, Shazia Nouren, Yursa Safa, Kashif Jilani, **Misbah Sultan**, Sadia Ata, Fariha Rehman, Mazhar Abbas. 2017. Green and eco-friendly synthesis of cobalt-oxide nanoparticle: Characterization and photocatalytic activity. *Advanced Powder Technology*, 28; 2035–2043. <http://dx.doi.org/10.1016/j.apr.2017.05.008>.
3. **Misbah Sultan**. 2017. Polyurethane for removal of organic dyes from textile wastewater. *Environmental Chemistry Letters*. 15:347–366. DOI 10.1007/s10311-016-0597-8
4. Shazia Nouren, Haq Nawaz Bhatti, Munawar Iqbal, Ismat Bibi, Shagufta Kamal, Sana Sadaf, **Misbah Sultan**, Abida Kausar, Yusra Safa. 2017. By-product identification and phytotoxicity of biodegraded Direct Yellow 4 dye. *Chemosphere* 169,474e484. [doi.org/10.1016/j.chemosphere.2016.11.080](http://dx.doi.org/10.1016/j.chemosphere.2016.11.080)
5. Ismat Bibi, Aneela Sultan, Shagufta Kamal, Shazia Nouren, Yusra Safa, Kashif Jalani, **Misbah Sultan**, Sadia Atta and Fariha Rehman. 2017. Extraction and quantification of phenolic compounds from *Prunus armeniaca* seed and their role in biotransformation of xenobiotic compounds. *Korean J. Chem. Eng.*, 34(2), 392-399. DOI: 10.1007/s11814-016-0275-3.
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7. Sidra Waheed, **Misbah Sultan**, Tahir Jamil, Tousif Hussain. 2015. Comparative analysis of hydroxyapatite synthesized by sol-gel, ultrasonication and microwave assisted technique. *Materials Today: Proceedings* 2; 5477 – 5484. doi: 10.1016/j.matpr.2015.11.073.
8. **Misbah Sultan**, Atif Islam, Nafisa Gull, Haq Nawaz Bhatti, Yusra Safa. 2015. Structural variation in soft segment of waterborne polyurethane acrylate nanoemulsions. *Journal of Applied Polymer science*. 132 (12): 41706. DOI: 10.1002/APP.41706.
9. Atif Islam, Tariq Yasin, Aneela Sabir, Shahzad Maqsood Khan, **Misbah Sultan**, Muhammad Shafiq, Asad U. Khan and Tahir Jamil. 2015. High-temperature electrical properties of silane

cross-linked chitosan/poly(vinyl alcohol) membrane: thermal, mechanical and surface characterization/ e-Polymers: 15(4): 255–261.

10. Sana Sadaf, Haq Nawaz Bhatti, Muhammad Arif, Misbah Amin, Farva Nazar & **Misbah Sultan** (2015). Box–Behnken design optimization for the removal of Direct Violet 51 dye from aqueous solution using lignocellulosic waste. *Desalination and Water Treatment*. 56 (2015) 2425–2437 DOI: 10.1080/19443994.2014.968215.
11. **Sultan M.**, Bhatti H. N., Zuber M. and Barikani M. and Jamil T. (2014) Structure-Property Relationship and Structural Study of Polyurethane-Urea Elastomers. *Journal of Chemical Society of Pakistan*: Vol. 36, No. 2,332-337.
12. **Sultan M.**, K. M.; Bhatti, H. N.; Jamil, T; Hussain, R.; Zuber, M.; (2012) Modification of cellulosic fiber with polyurethane acrylate copolymers, Part I: Physicochemical properties. *Carbohydrate Polymers*: 87; 397-404.
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15. **Sultan M.**, Haq Nawaz Bhatti and Zafar Iqbal . (2005) Chemical Analysis of Essential Oil of Ginger (*Zingiber officinale*). *Pakistan Journal of Biological Sciences*. 1576-1578.