

## Published/Accepted articles

### 2017

1. Masoom R. Siddiqui, Saikh M. Wabaidur, Zeid A. AlOthman, M.Z.A. Rafiquee, Moonis Ali Khan. High throughput ultra performance liquid chromatography - mass spectrometric method for determination of adrenaline and characterization of its stress degradation products: a mechanistic approach. Journal of Chilean Chemical Society (Accepted) 2017.
2. MZA Rafiquee, **Masoom R. Siddiqui**, HA Al-Lohedan, ZA Al-Othman. Kinetic Investigation on the oxidation of N-acetylcysteine by dioxygen of  $\mu$ -dioxytetrakis (histidinato) dicobalt (II) complex. Journal of Molecular Liquids. 229, 424-428 (2017).
3. Moonis Ali Khan, Mohd Sajid Ali, Zeid Abdullah Alothman, **Masoom Raza Siddiqui**, Hamad A Al-Lohedan. Dodecyl sulfate chain-anchored mercerized lignocellulose agro-waste: An effective and sustainable adsorbent to sequester heavy metal ions from an aqueous phase. Environmental Progress & Sustainable Energy. (Available Online DOI: 10.1002/ep.12625)
4. S. M. Wabaidur, M.A. Khan, **M. R. Siddiqui**, Z. A. Alothman, M. S. Al-Ghamdi, I. H. Al-Sohami, Dodecyl sulfate chain anchored bio-char to sequester triaryl methane dyes: Equilibrium, kinetics, and adsorption mechanism. Desalination and Water Treatment. 67, 357-370 (2017)
5. A. Aldawsari, , M.A Khan, B.H. Hameed, A. Yaseen, Z. A. AlOthman, **M. R. Siddiqui**. Development of activated carbon from *Phoenix dactylifera* fruit pits: Process optimization, characterization, and methylene blue adsorption. Desalination and Water Treatment. 62, 273-281 (2017).

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6. Sarfaraz Ahmad, **Masoom R. Siddiqui**, Md. S. Ali, Saikh M. Wabaidur, Md. S. Alam, Nawazish Alam, Zeid A Alothman, Moonis Ali Khan, Mohammad R. Khan. Solid phase extraction and LC-MS/MS method for quantification of venlafaxine and its active metabolite O-desmethyl venlafaxine in rat plasma. Journal of the Chilean Chemical Society 61, 3130-3135 (2016)
7. A. Y. Badjah Hadj Ahmed, Saikh M. Wabaidur, **Masoom Raza Siddiqui**, Zeid A. Alothman, Munir S. Obeid, Mohammad R. Khan, Saad A. AL-Tamrah. Simultaneous determination of twenty-five polyphenols in multifloral and cactus honeys using solid-phase extraction and high-performance liquid chromatography with photodiode array detection. European Food Research and Technology. 242, 943-952 (2016)
8. **Masoom Raza Siddiqui**, Saikh Mohammad Wabaidur, Mohammad Shamsul Ola, Zeid A. AlOthman, and M.Z.A. Rafiquee, High-Throughput UPLC–MS Method for the Determination of N-Acetyl-L-Cysteine: Application in Tissue Distribution Study in Wistar Rats. Moonis Ali Khan. Journal of Chromatographic science. 54, 1244-1252 (2016).
9. M.Z.A. Rafiquee, **Masoom R. Siddiqui**, H.N. Haque, M. Shamsul Ola, Hamad A. Al-Lohedan, Z.A. Al-Othman, Saikh M. Wabaidur.. Activation of molecular oxygen for the oxidation of 2-mercaptoethanol: A kinetic and mechanistic approach. Journal of Industrial and Engineering Chemistry, 34, 84-88 (2016).

## 2015

10. **MR Siddiqui**, SM Wabaidur, ZA ALOthman, MZA Rafiquee. Rapid and sensitive method for analysis of nitrate in meat samples using ultra performance liquid chromatography–mass spectrometry. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 151, 861-866 (2015).

11. Moonis Ali Khan, Zeid Abdullah Al Othman, Mahendra Kumar, Mohammad Shamsul Ola & **Masoom Raza Siddiqui**. Biosorption potential assessment of modified pistachio shell waste for methylene blue: thermodynamics and kinetics study. *Desalination and Water Treatment* 56, 146-160 (2015)
12. Saikh Mohammad Wabaidur, Seikh Mafiz Alam, Zeid A Alothman, **Masoom Raza Siddiqui**, Mu Naushad, Ayoub A Alqadami. Flow-injection chemiluminescence method for the determination of moxifloxacin in pharmaceutical tablets and human urine using silver nanoparticles sensitized calcein–KMnO<sub>4</sub> system. *Bioprocess and biosystems engineering*. 38, 1803-1810 (2015).
13. **Masoom Raza Siddiqui**, Zeid A. Alothman, Saikh Mohammad Wabaidur, Moonis Ali Khan, Md. Sarfaraz Alam, Md. Sajid Ali. High performance liquid chromatographic method for the quantitative analysis of cefuroxime in pharmaceutical preparations. *Journal of the Chilean Chemical Society*. 60, 2869-2871 (2015).
14. Saikh M Wabaidur, Zeid A AlOthman, **Masoom R Siddiqui**, Kazi Mohsin, Leda G Bousiakou, George A Karikas. UPLC–MS method for the simultaneous determination of naproxen, fluvastatin and ibuprofen in waste water samples. *Journal of Industrial and Engineering Chemistry*. 24, 302-307 (2015)
15. M. Z. A. Rafiquee, **Masoom R. Siddiqui**, Mohd. Sajid Ali, Hamad A. Al-Lohedan, Z. A. Al-Othman. Synthesis, characterization and kinetics of formation of silver nanoparticles by reduction with adrenaline in the micellar media. *Bioprocess Biosyst Eng. Bioprocess and biosystems engineering* 38, 711-719 (2015)

16. **Masoom R. Siddiqui**, M.Z.A. Rafiquee, Saikh M. Wabaidur, Zeid A. Alothman, Mohd. Sajid Ali, Hamad A. Allohedan. Synthesis of silver nanoparticle: a new analytical approach for the quantitative assessment of adrenaline. *Analytical Sciences* 31, 437-443 (2015).

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17. **Masoom Raza Siddiqui**, Saikh Mohammad Wabaidur, Zeid A. Alothman, Moonis Ali Khan, and Mohammad Shamsul Ola. Quantitative Assessment of Cefuroxime, a Second Generation Cephalosporin in Pharmaceutical Formulations and Spiked Plasma Using Ultra Performance Liquid Chromatography-Tandem Mass Spectrometry. *Asian Journal of Chemistry*. 26 (2014) 8479-8482.
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19. M.Z.A. Rafiquee, **Masoom R. Siddiqui**, Mohd. Sajid Ali, Hamad A. Al-Lohedan. Spectrophotometric investigation on the kinetics of oxidation of adrenaline by dioxygen of  $\mu$ -dioxytetrakis(histidinato)-dicobalt(II) complex *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 126, 21-27 (2014).
20. **Masoom Raza Siddiqui**, Zeid A AlOthman, Saikh Mohammad Wabaidur, MD. Sajid Ali, MD Sarfaraz Alam, and Taieb Aouak. Optimization of kinetic method for the estimation of N-acetyl L-cysteine and characterization of its oxidation and degradation product by mass spectrometry. *Asian Journal of Chemistry*. 26, 2935-2940 (2014).
21. **Masoom Raza Siddiqui**, Saikh Mohammad Wabaidur, Zied A. Alothman, Habibur Rahman, Md. Sarfaraz Alam, Md. Sajid Ali. Iodate oxidation of N-Acetyl L-cysteine:

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22. **Masoom Raza Siddiqui**, Md. Sarfaraz Alam, and Md. Sajid Ali. Application of Persulphate for the Quantitative Analysis of Ceftriaxone in Pharmaceutical Formulations. *Advance Science Engineering and medicine*. 6, 231-134 (2014)
23. **Masoom Raza Siddiqui**, Zeid A. Alothman, Saikh Mohammad Wabaidur. Ultra-performance liquid chromatography-mass spectrometric method for determination of ampicillin and characterization of its forced degradation products. **Journal of chromatographic sciences**. 52, 1273-1280 (2014).
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27. Zeid A. AlOthman, **Masoom Raza siddiqui**, Moonis Ali Khan. Quantitative analysis of ceftriaxone sodium in parenteral dosage form. *Asian Journal of Chemistry*, 25, 7229-7234 (2013).
28. Saikh Mohammad Wabaidur, Sang Hak Lee, Zeid Al-othman, **Masoom Raza Siddiqui**, SaikhMafiz Alam. Second derivative synchronous fluorimetric method for simultaneous determination of harman and norharman in coffee samples. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. 110, 179-184 (2013).
29. Zeid A. Alothman, Nafisur Rahman, and **Masoom Raza Siddiqui**. Review on Pharmaceutical Impurities, Stability Studies and Degradation Products: An Analytical Approach. *Reviews in advance Science and Engineering* 2, 155-166 (2013).
30. **Masoom Raza Siddiqui**, Md. Sarfaraz Alam, and Md. Sajid Ali. Application of N-Bromosuccinimide in the Quantitative Analysis of N-Acetyl L-Cysteine in Pharmaceutical Dosage Forms. *Advanced Chemistry letters*. 1, 169-173 (2013).
31. Zeid A. ALOthman, **Masoom Raza Siddiqui**, Saikh Mohammad Wabaidur, Hamad A. Al-Lohedan, Mohd. Sajid Ali and M.Z.A. Rafiquee. Kinetic spectrophotometric methods for the determination of Isatin. *Asian Journal of Chemistry*, 25, 4563-4568 (2013).
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33. **Masoom Raza Siddiqui**, Zeid A. AlOthman, and Nafisur Rahman. Analytical Techniques in Pharmaceutical analysis: A review. *Arabian journal of Chemistry*. Accepted. In press available online 23 April 2013.

34. Md Sarfaraz Alam, Md Sajid Ali, Nawazish Alam, Masoom Raza Siddiqui, Md Shamim, MM Safhi. In vivo study of clobetasol propionate loaded nanoemulsion for topical application in psoriasis and atopic dermatitis. Drug invention today, 5, 8-12 (2013)
35. Ashish Sarkar, Supriya Das and **Masoom Raza Siddiqui**. Development and validation of kinetic method for the quantitative analysis of L-ornithine L-aspartate Advanced Science Focus 1, 37-42 (2013).
36. Zeid A. ALothman, **Masoom R. Siddiqui** and Saikh M. Wabaidur. Estimation of isatin in spiked plasma samples using High Performance Liquid Chromatography. Chemical Industry and Chemical Engineering Quarterly. 19, 605- 614 (2013).

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42. Vivek Kumar Dwivedi, Adnan Ahmad, ArvindSoni, **Masoom Raza Siddiqui**, Naveen Pathak, Vijay Naithani, Anuj Bhatanager and Manu Chaudhary In vitro penetration rate and efficacy of Trois in arthritis induced rat modelAustralian Journal of Basic and Applied Sciences, 4, 2068-2080 (2010).

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48. Nafisur Rahman, **Masoom Raza Siddiqui**, Syed Najmul Hejaz Azmi. Quantitation of Nicorandil in Drug Formulations using N-(1- Naphthyl) ethylenediaminedihydrochloride as a Coupling Agent. Yakugaku Zasshi. 127, 367- 374(2007).

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