

MASOOM RAZA SIDDIQUI

Associate Professor

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Summary

No of papers published: 49

Work experience (in years): 8 years

No of conference attended/ presented: 05

Fellowship at doctoral level: YES

Research Interest: Environmental science, Chromatography, Spectroscopy,

Instruments Handled: UPLC-MS, HPLC, Gas chromatograph, FTIR, Spectrophotometer

Acted as reviewer: More than 15 journals

Editorial Advisory board member: 1 journal

Education Qualification

- ❖ **Ph.D. in Chemistry**, Thesis title “*Development of Analytical Methods for the Determination of Cardiovascular Drugs in pharmaceutical Formulations*”

Aligarh Muslim University- **August 2007**

- ❖ **M.Sc. in Analytical Chemistry**

Aligarh Muslim University

Year of passing: **2003**

- ❖ **B.Sc. in Chemistry**

Aligarh Muslim University

Year of passing: **2001**

Fellowships and awards:

- ❖ UGC fellowship, Government of India, from January, 2007 to August, 2007.

Work and Research Experience highlights:

- ❖ About eight years of post-doctoral work experience including more than 5 years as assistant professor at King Saud University.
- ❖ Worked as an Assistant manager at Venus Medicine Research Centre, Baddi, (H.P) (February, 2008 – August, 2010). Dealing with Analytical Method Development Research, Analysis of Formulation development samples and biomedical analysis.
- ❖ Worked as Assistant Occ. Health Officer at Dubai Municipality, Dubai (August, 2010 – February, 2011). Audit of the industrial firms.
- ❖ Presently working as an Assistant Professor at King Saud University, Saudi Arabia (From May, 2011 – till date). Working on pharmaceutical method development, environmental and food additives analytical development, water treatment.

Conference Attended / paper presented

- ❖ Manthan 2010, An international symposium on current advances in novel and parenteral drug development, Organized by Venus Medicine Research Centre, Baddi. India. (Organizing committee member and poster presentation)
- ❖ National symposium on recent trends in chemical Science organized by Department of Chemistry, Aligarh Muslim University, Aligarh. (Oral Presentation)
- ❖ 5th International Conference on Water Resources and Arid Environments, KSU, Riyadh, Saudi Arabia (Attended). 2014
- ❖ 6th International Chemistry Conference, Riyadh “*New trends in chemistry*” 2016 (Attended).

- ❖ 7th International Conference on Water Resources and Arid Environments, KSU, Riyadh, Saudi Arabia 2016. (Attended).

Additional Qualification and Instrumentation working experience

- ❖ Working experience on Ultra Performance Liquid Chromatography- Mass spectrometry (UPLC-MS), High performance liquid chromatography (HPLC), U.V.visible spectrophotometer, Fourier transform infrared spectroscopy and Gas chromatography
- ❖ Acted as a reviewer for Spectrochimica Acta Part A: Part A: Molecular and Bimolecular Spectroscopy, Industrial & engineering chemistry research (ACS), Chemosphere, Luminescence: The Journal of Biological and Chemical Luminescence, Arabian Journal of Chemistry, Journal of Pharmaceutical Analysis, AAPS PharmaScience Tech. Oriental Journal of Chemistry, Carbohydrate Polymer, Journal of chromatographic Science, Pharmacognosy Magazine, Current pharmaceutical Analysis, Biomedical Chromatography, Journal of Basic Microbiology,
- ❖ Conference paper review: International Conference Environmental Research & Tech. 2015
- ❖ Member of international advisory Board– Oriental Journal of Chemistry ISSN: 0970 - 020X

Published Accepted articles

1. MZA Rafiquee, **Masoom R. Siddiqui**, HA Al-Lohedan, ZA Al-Othman. Kinetic Investigation on the oxidation of N-acetylcysteine by dioxygen of μ -dioxytetrakis (histidinato) dicobalt (II) complex. Journal of Molecular Liquids. 229, 424-428 (2017).
2. 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)

3. 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)
4. 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).
5. 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)
6. 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)
7. **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).

8. 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).
9. **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).
10. 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)
11. 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–KMnO₄ system. Bioprocess and biosystems engineering. 38, 1803-1810 (2015).
12. **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).

13. 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)
14. 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)
15. **Masoom R. Siddiqui**, M.Z.A. Rafiquee, Saikh M. Wabaidur, Zeid A. Allothman, 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)
16. **Masoom Raza Siddiqui**, Saikh Mohammad Wabaidur, Zeid A. Allothman, 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 –Accepted 2014*.
17. **Masoom Raza Siddiqui**, Saikh Mohammad Wabaidur, Zied A. Allothman, Md. Sajid Ali, Md. Sarfaraz Alam. Kinetic spectrophotometric method for the quantitative analysis of streptomycin sulfate. *Journal of Chilean Chemical Society* 59, 3, 2550-2554 (2014).
18. 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 μ -dioxytetrakis(histidinato)-dicobalt(II) complex *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 126, 21-27 (2014).

19. **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).
20. **Masoom Raza Siddiqui**, Saikh Mohammad Wabaidur, Zied A. Alothman, Habibur Rahman, Md. Sarfaraz Alam, Md. Sajid Ali. Iodate oxidation of N-Acetyl L-cysteine: Application in drug determination and characterization of its oxidation and degradation product by mass spectrometry. Journal of Chilean Chemical Society 59, 2303-2307 (2014).
21. **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)
22. **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).
23. Md Sajid Ali, Md Sarfaraz Alam, Nawazish Alam, **Masoom Raza Siddiqui**. Preparation, characterization and stability study of dutasteride loaded nanoemulsion for treatment of benign prostatic hypertrophy. Iranian Journal of Pharmaceutical Research. 13, 1125-1140 (2014).
24. **Masoom Raza Siddiqui**, Rajkumar Singh, Anuj Bhatnagar, Jitendra kumar and Manu Chaudhary. Determination of Residual solvents in Docetaxel by Headspace Gas chromatography. Rajkumar singh, Accepted. In press, Available online 17 September 2013.

25. Mahendra Kumar, Moonis Ali Khan, Zeid Al Othman, **Masoom Raza Siddiqui**. Polyaniline modified organic–inorganic hybrid cation-exchange membranes for the separation of monovalent and multivalent ions. *Desalination*, 325, 95-103 (2013).
26. 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).
27. Saikh Mohammad Wabaidur, Sang Hak Lee, Zeid Al-othman, **Masoom Raza Siddiqui**, Seikh Mafiz 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).
28. 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).
29. **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).
30. 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).
31. **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).

32. **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.
33. 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)
34. 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).
35. 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).
36. Md. Sarfaraz Alam, Md. Sajid Ali, Nawazish Alam, MdIntakhab Alam, TariqueAnwer, Faisal Imam, Md. Daud Ali, **Masoom Raza Siddiqui**, Md. Shamim. Design and Characterization of Nanostructure Topical Gel of Betamethasone Dipropionate for Psoriasis. Journal of Applied Pharmaceutical Science. 2, 148-158 (2012).
37. Md Sajid Ali, Md Sarfaraz Alam, Faisal Imam Imam, Masoom Raza Siddiqui. Topical nanoemulsion of turmeric oil for psoriasis: characterization, ex vivo and in vivo assessment. International Journal of Drug Delivery. 4, 184-197 (2012).
38. Zeid Abdullah AlOthman, Mohammad Rizwan Khan, Saikh Mohammad Wabaidur, and **Masoom Raza Siddiqui**. Persistent Organic Pollutants: Overview of Their Extraction and Estimation. Sensor Letters. 10, 698-702 (2012).

39. Abu Tariq, **Masoom Raza Siddiqui**, K Dinesh Reddy, Manu Chaudhary, JitenderYadav, P. S. Negi Sanjay Mohan Srivastava and Rajkumar Singh Development of analytical method for the simultaneous estimation of ceftriaxone and vancomycin in combined dosage form. Science Asia 36, 297-304 (2010).
40. **Masoom Raza Siddiqui**, Abu Tariq, K Dinesh Reddy, Manu Chaudhary, JitenderYadav, P. S. Negi, AnujBhatnagar and Rajkumar Singh. Development of analytical method for the simultaneous estimation of cefepime and sulbactam in combined dosage form –*SUPINE*. International journal of pharmacology 6, 271-277 (2010).
41. 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 model Australian Journal of Basic and Applied Sciences, 4, 2068-2080 (2010).
42. V. K. Dwivedi, A. Soni, M. Chaudhary, JitenderYadav, Abu Tariq, **Masoom Raza Siddiqui** and P S Negi. Diffusion of Sulbactamax and Ceftriaxone into Cerebrospinal Fluid of Meningitis Induced Rat Model. International journal of pharmacology 5, 307-312 (2009).
43. Sanjay Mohan Srivastava, Rajkumar Singh, Abu Tariq, **Masoom Raza Siddiqui**, JitenderYadav, P. S., Negi and Manu Chaudhary. A novel High-performance Liquid Chromatographic method for the Simultaneous Determination of Ceftriaxone and Sulbactam in Sulabactamax..International Journal of Biomedical Science 5, 100-106 (2009).

44. **Masoom Raza Siddiqui**, Abu Tariq, Adnan Ahmad, Rajkumar Singh, Manu chaudhry and sanjaymohansrivastava. Application of DDQ and pCA for the determination of Milrinone pharmaceutical preparations. **Asian journal of Scientific Resesearch. 2, 135-145 (2009)**
45. **Masoom Raza Siddiqui**, Abu Tariq, K Dinesh Reddy, Manu Chaudhary, Rajkumar Singh, JitenderYadav, P. S. Negi, Nitya shrivastava and Sanjay Mohan Srivastava. Development and validation of HPLC method for the Simulataneous determination of Ceftazidime& Sulbactam in combined dosage form-Zydotam. American journal of Applied Sciences 6, 1781-1787(2009).
46. Nafisur Rahman, **Masoom Raza Siddiqui**, Syed Najmul Hejaz Azmi. Analysis of Lisinopril in Commercial Dosage forms using Chloranil and n-bromosuccinamide. Chem. Anal (Warsaw) 52, 465-480 (2007).
47. Nafisur Rahman, **Masoom Raza Siddiqui**, Syed Najmul Hejaz Azmi. Quantitation of Nicorandil in Drug Formulations using N-(1- Naphthyl) ethylenediaminedihydrochloride as a Coupling Agent. YakugakuZasshi. 127, 367- 374(2007).
48. Nafisur Rahman, **Masoom Raza Siddiqui**, Syed Najmul Hejaz Azmi. Development and Validation of Kinetic Spectrophotometric Method for the determination of losartan potassium in pure and commercial tablets. Journal of Chinese Chemical Society. 53,735 – 734 (2006).
49. Nafisur Rahman, **Masoom Raza Siddiqui**, Syed Najmul Hejaz Azmi. Quantitative Analysis of Irbesartan in Commercial Dosage forms by kinetic Spectrophotometry. Chemical and Pharmaceutical Bulletin 54, 626-631 (2006).